FINAL PROGRAM

www.acsmannualmeeting.org

May 30-June 3, 2017
Colorado Convention Center and Hyatt Regency Denver at the Colorado Convention Center
#ACSM17
Session Definitions

Named and Special Lectures

D.B. Dill Historical Lecture: This lecture deals with the history of sports medicine and exercise science. In memory of one of ACSM's past presidents and prominent figure in the development of sports medicine and exercise science in America, D. Bruce Dill, Ph.D. This lecture is presented unopposed from all other sessions.

Elsworth R. Buskirk Tutorial Lecture: This lecture is in the area of environmental and exercise physiology in honor of Elsworth R. Buskirk, Ph.D.

J.B. Wolfe Memorial Lecture: The keynote address at the Annual Meeting is in memory of one of ACSM's founders, and first president, Joseph B. Wolfe, M.D. This session is offered unopposed from other sessions.

Priscilla M. Clarkson Tutorial Lecture: This is in the area of skeletal muscle function, injury, and adaptation in honor of Priscilla M. Clarkson, Ph.D.

John R. Sutton Clinical Lecture: This is in the area of clinical and the research aspect of medicine in honor of John R. Sutton, M.D. This session is offered unopposed from any other clinical offerings.

President's Lecture: These sessions are plenary lectures entitled President's Lectures recognizing great contributions to the field of sports medicine and exercise science. The topics will reflect many of the various disciplines that comprise the unique and diverse nature of the American College of Sports Medicine. These lectures are presented by leaders in the field whose individual contributions have helped define and advance sports medicine.

Morris/Paffenbarger Tutorial Lecture: This is in the area of physical activity in honor of Jeremy N. Morris, D.Sc., D.P.H., and Ralph S. Paffenbarger, Jr., M.D., Sc.D.

50-Minute Formats

Clinical Workshop–Hands On Demonstration: This session is a hands-on small group demonstration of current examinations and treatment modalities of sports medicine problems. Clinical workshops are limited to 40 people; therefore, space in the meeting room is available on first arrival.

Colloquium: A colloquium is an interactive discussion on a topic or issue in sports medicine, exercise science or clinical practice. These are informal presentations that give the attendees a chance to “meet the expert.”

Tutorial Lecture: A critical review and analysis of the current state of knowledge in a field in sports medicine, exercise science or clinical practice. The lecture should familiarize attendees with the basics of a subject and progress to current issues, questions, problems, and the frontier of knowledge.

Abstract Sessions

Clinical Case Slide Session: Clinical Case Papers are in five categories: cardiovascular; general medicine; head, neck and spine; musculoskeletal; and age and gender specific issues. The case presentation outlines 1) History, 2) Physical Examination, 3) Differential Diagnosis, 4) Test/Results, 5) Final/Working Diagnosis, and 6) Treatment and Outcomes.

Free Communication/Poster Session: Poster sessions are allotted an approximate 4-5 hour time block for viewing. Posters will be scheduled for presentation in one and one-half hour time-blocks with authors present to answer any questions and discuss their research with attendees.

Free Communication/Slide Session: Presentation of an abstract in a free communication/slide session is limited to a maximum of 10 minutes, followed by a five minute period of open discussion from the audience. Each contains a Purpose, Methods, Results, and Conclusion.

Thematic Poster Session: Thematic poster presentations are two hours in duration. For the first part, attendees view the posters. The second part consists of a five-minute synopsis of each poster by the first author with discussion moderated by the chair to include the audience.

Symposium: In-depth, scientific and state-of-the-art lectures in important areas of research and clinical practice. Symposia include three to four speakers with time allotted for an introduction and overview and overall discussion.
A-01 Exercise is Medicine® - Symposium - A Cross Disciplinary Approach to Integrating Physical Activity into the Training of Exercise Professionals and Medical Practice
Tuesday, May 30, 2017, 1:00 PM - 3:00 PM
Room: Hotel-Centennial Ballroom F

This session will examine the core competencies related to exercise and physical activity training that need to be incorporated into the curriculum of health professions - including exercise professionals, physical therapists, and sports medicine physicians. Panelists will describe how modifications of these core competencies are made for each professional field and provide examples of how this training is currently being incorporated into applied training programs.

1 1:00 PM - 1:10 PM
Chair: Rachele Pojednic. Simmons College & Harvard Medical School, Boston, MA.
(No relationships reported)

2 1:10 PM - 1:30 PM
Exercise Training and the Sports Medicine Physician
(No relationships reported)

3 1:30 PM - 2:00 PM
Exercise Training and the Sports Medicine Physician
Allison Bowersock. Jefferson College of Health Sciences, Virginia Tech Carilion School of Medicine, Roanoke, VA.
(No relationships reported)

4 2:00 PM - 2:20 PM
Exercise Training and the Physical Therapy Professional
Phil Page, FACSM. Performance Health, Baton Rouge, LA.
(No relationships reported)

5 2:20 PM - 2:40 PM
Exercise Training and the Physical Therapy Professional
Marilyn Moffat. NYU, New York, NY.
(No relationships reported)

2:40 PM - 3:00 PM
Overall Discussion

A-02 Exercise is Medicine® - Symposium - Exercise is Medicine for Mental Illness: Developing Feasible and Effective Interventions for Real-world Clinical Settings
Tuesday, May 30, 2017, 1:00 PM - 3:00 PM
Room: Hotel-Centennial Ballroom D

This symposium will highlight new developments in real-world implementation of exercise interventions for people living with a wide range of mental disorders. This will include people with eating disorders, young people with emerging mood and anxiety disorders, and those with established, ongoing severe mental illness, or who are receiving treatment with clozapine for treatment-resistant psychosis. Novel approaches and key implementation strategies will be highlighted.

6 1:00 PM - 1:05 PM
Chair: Philip B. Ward. UNSW Australia, Sydney, Australia.
(No relationships reported)

7 1:05 PM - 1:30 PM
Stepping up the Treatment of Mental Illness: Feasibility and Acceptability of a 12-week Exercise Program for Help-seeking Youth with Mood and Anxiety Disorders
Oscar Lederman. South Eastern Sydney Local Health District, Bondi Junction, Australia.
(No relationships reported)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>3:15 PM - 3:20 PM</td>
<td>Chair: Irfan M. Asif. Greenville Health System, Greenville, SC.</td>
</tr>
</tbody>
</table>
| 3:20 PM - 3:35 PM | Development, Buy-in, and Implementation  
Jennifer L. Trilk. University of South Carolina School of Medicine  
Greenville, Greenville, SC.                                |
| 3:35 PM - 3:50 PM | Clinical Education and Innovations in Medical Practice  
W Franklin Sasse, FACSM. Greenville Health System, Greenville, SC.  |
| 3:50 PM - 4:05 PM | EIM and Lifestyle Medicine: Implementation in the Highest Risk Settings  
Robert Masocol. Greenville Health System, Greenville, SC.           |
| 4:05 PM - 4:20 PM | Engaging Your Patient: Tools for Motivation and Behavior Change  
Ann Blair Kennedy. University of South Carolina School of Medicine  
Greenville, Greenville, SC.                                         |
| 4:20 PM - 4:35 PM | Strategies for Community Engagement  
Scot Baddley. YMCA of Greenville, Greenville, SC.                     |
| 4:35 PM - 4:50 PM | Taking it to the Next Level in the Management of Population Health  
Irfan M. Asif. University of South Carolina School of Medicine  
Greenville, Greenville, SC.                                         |
| 4:50 PM - 5:15 PM | Overall Discussion                                                    |


Tuesday, May 30, 2017, 3:15 PM - 5:15 PM  
Room: Hotel-Centennial Ballroom F

Despite considerable evidence that physical activity and proper nutrition can improve chronic disease, few clinicians effectively facilitate change in patients’ daily routines. Inadequate medical education, lack of patient motivation, and insufficient healthcare/community resources are common culprits preventing healthy outcomes. This symposium will highlight the “Classroom-to-Community” model implemented in Greenville, SC, where our medical school and healthcare system partnered with key stakeholders to improve clinician education, engaged in quality improvement and research through use of the EIM vital sign, developed and implemented a lifestyle medicine clinic, and partnered with local fitness facilities to enhance population health at reduced cost.

**Exercise is Medicine® - Tutorial Lecture - Embracing Diversity and Making JTAs a Part of the Daily EIM Campus Culture**

Tuesday, May 30, 2017, 3:15 PM - 4:05 PM  
Room: Hotel-Centennial Ballroom A

Students completing degrees in exercise sciences are responsible for gaining proficiency in the Job Task Analysis (JTAs). Many JTAs require hands-on interaction with clients and therefore exposing students to more real-world scenarios can only be beneficial. The implementation of Exercise is Medicine on Campus (EIM-OC) provides a unique opportunity to help reinforce skills associated with JTAs. This tutorial lecture covers how a community health program with an emphasis on cultural diversity and exercise physiology was incorporated into a university program under the EIM-OC and other university-wide strategic health initiatives. Specific implementation guidelines and lessons learned will be provided to participants.

**Exercise is Medicine® - Symposium - Exercise is Medicine for the Brain**

Tuesday, May 30, 2017, 3:15 PM - 5:15 PM  
Room: Hotel-Centennial Ballroom D

This symposium will build upon the ACSM Exercise is Medicine initiative with a clinical focus on exercise and the brain. The symposium speakers will discuss the balance between the potential risks of sports to brain health and the benefits of physical activity and sports in promoting mental health and social development, treating mental illness, improving academic performance and treating traumatic brain injury and neurodegenerative diseases. The role of nutrition in maximizing brain health will also be covered.

**Exercise is Medicine® - Tutorial Lecture - Physical Activity/Exercise and Diabetes: Updates from the 2016 American Diabetes Association Position Statement**

Tuesday, May 30, 2017, 4:25 PM - 5:15 PM  
Room: Hotel-Centennial Ballroom A

This tutorial lecture will review and expand on the updated 2016 position statement from the American Diabetes Association. The adoption and maintenance of physical activity is a critical focus for blood glucose management and overall health in individuals with diabetes and prediabetes. Recommendations and precautions for...
being active vary depending on individual characteristics and health status. The ADA position statement provides a clinically-oriented review, and evidence-based recommendations, regarding physical activity and exercise in people with type 1 diabetes, type 2 diabetes, gestational diabetes, and prediabetes.

29 Sheri Colberg-Ochs, FACSM. Old Dominion University, Norfolk, VA. (No relationships reported)

A-09 Morris/Paffenbarger EIM Keynote Lecture - Physical Activity and Cardiovascular Prevention
Tuesday, May 30, 2017, 5:30 PM - 6:15 PM
Room: Hotel-Centennial Ballroom D

30 Mai-Lis Hellénius, Karolinska Institute, Stockholm, Sweden. (No relationships reported)
This highlighted symposium will focus on the interaction between nutrition and exercise and their effects on diabetes. Basic, clinical and applied sciences will be covered in these areas.

**A-10** Joseph B. Wolfe Memorial Lecture - Crossroads and Conflicts: Olympics, Paralympics or Cyborg Olympics?

Wednesday, May 31, 2017, 8:00 AM - 9:15 AM
Room: Hall A

31 Yves C. Vanlandewijck, KU Leuven, Leuven, Belgium.
(No relationships reported)

**A-11** Highlighted Symposium - Nutrition and Exercise Interactions to Impact Diabetes

Wednesday, May 31, 2017, 9:30 AM - 11:30 AM
Room: 201

This highlighted symposium will focus on the interaction between nutrition and exercise and their effects on diabetes. Basic, clinical and applied sciences will be covered in these areas.

32 9:30 AM - 9:35 AM
Chair: Stella L. Volpe, FACSM, Drexel University, Philadelphia, PA.
(No relationships reported)

33 9:30 AM - 9:35 AM
Co-Chair: Kathleen Woolf, FACSM, New York University, New York, NY.
(No relationships reported)

34 9:30 AM - 9:35 AM
Co-Chair: Jennifer E. Fassbender, American Diabetes Association, Flourtown, PA.
(No relationships reported)

35 9:35 AM - 10:00 AM
The Effects of Maternal Nutrition and Exercise on Offspring Metabolic Health
Laurie Goodyear, FACSM, Joslin Diabetes Center/Harvard Medical School, Boston, MA.
(No relationships reported)

36 10:00 AM - 10:25 AM
Insulin Resistance and Exercise Defects in Youth with Diabetes
Kristen J. Nadeau, University of Colorado Anschutz Medical Campus, Aurora, CO.
(No relationships reported)

37 10:25 AM - 10:50 AM
Adding a Nutritional Lifestyle Intervention to Exercise Alone for Glucose Homeostasis, Fitness and Body Composition in Pre-diabetic Individuals
William E. Kraus, FACSM, Duke University School of Medicine, Durham, NC.
(No relationships reported)

38 10:50 AM - 11:15 AM
Targeting the Gut Microbiome to Reduce Diabetes Risk
Maria Marco, University of California at Davis, Davis, CA.
(No relationships reported)

11:15 AM - 11:30 AM
Overall Discussion

**A-12** Basic Science World Congress - Symposium - Impacts of Exercise, the Gut Microbiome/ Metabolome and Immunity on the Brain

Wednesday, May 31, 2017, 9:30 AM - 11:30 AM
Room: Bellco Theatre 1

39 9:30 AM - 9:35 AM
Chair: Monika Fleshner, University of Colorado - Boulder, Boulder, CO.
(No relationships reported)

40 9:35 AM - 10:10 AM
Exercise or Prebiotic Diet Increases Stress Resistance, Modulate Stress Reactive Neurocircuitry, and Promote Adaptive Gut Microorganisms
Monika Fleshner, University of Colorado - Boulder, Boulder, CO.
(No relationships reported)

41 10:10 AM - 10:45 AM
Microbial Inputs and Immunoregulation: Implications for Health Benefits of Exercise
Christopher A. Lowry, University of Colorado Boulder, Boulder, CO.
Reported Relationships: C.A. Lowry: Consulting Fee; Immodulon Therapeutics, Ltd.

42 10:45 AM - 11:20 AM
Exercise and the Human Brain-Gut Microbiome Axis
Emeran Mayer, UCLA, Los Angeles, CA.
(No relationships reported)

11:20 AM - 11:30 AM
Overall Discussion

**A-13** Basic Science World Congress - Symposium - Influences of Physical Activity/Exercise on Cognitive Health Across the Life Span

Wednesday, May 31, 2017, 9:30 AM - 11:30 AM
Room: Bellco Theatre 3

This symposium will provide an overview of our current understanding of the influences of PA and exercise on cognitive function at different stages of the human life span and in old age. A secondary goal is to identify critical gaps in our knowledge and the studies needed to identify strategies for preserving cognitive health as we age. Topics to be covered include: 1) the relationship between PA, cognitive status in early life and later life cognitive health; 2) effects of PA/exercise on preserving neurocognitive function in older adults; and 3) role of exercise in preventing dementia and Alzheimer’s Disease.

43 9:30 AM - 9:45 AM
Chair: Chhanda Dutta, National Institute on Aging, NIH, Bethesda, MD.
(No relationships reported)

44 9:45 AM - 10:05 AM
Childhood Health and Cognitive Function
Charles H. Hillman, Northeastern University, Boston, MA.
(No relationships reported)

45 10:05 AM - 10:25 AM
Fit Body, Fit Brain: Effects of Exercise on Neurocognitive Function in Older Adults
Kirk Erickson, University of Pittsburgh, Pittsburgh, PA.
(No relationships reported)

46 10:25 AM - 10:45 AM
Exercise in the Fight Against Alzheimer’s and Dementia
Jeffrey M. Burns, University of Kansas Alzheimer’s Disease Center, Kansas City, KS.
(No relationships reported)
This symposium aims to discuss the evaluation and treatment of the athlete with hip pathology focusing on hip preservation and long term outcomes including an overview of sport specific hip osseous morphology and differences in clinical profiles among varying sport disciplines. Movement patterns in athletes with hip pathology and research surrounding treatment with gait retraining will be reviewed. Surgical management of hip dysplasia and FAL, including hip arthroscopy and open surgical procedures to preserve the natural congruity of the hip and chondral architecture will be discussed including periacetabular osteotomy.

**A-15 Symposium - Current Concepts in Hip Preservation for the Athlete**

**Wednesday, May 31, 2017, 9:30 AM - 11:30 AM**

**Room:** 302

**Chair:** Pierre d’Hemecourt, FACSM. Boston Children’s Hospital/ Harvard Medical School, Boston, MA.  
(No relationships reported)

**A-14 Symposium - Clinical Research can be for Everyone – Tips and Traps for Trainees**

As the health care field advances, including sports medicine and exercise science, rigorous scientific research continues to be imperative in informing evidence-based practice. However participating in clinical research can be daunting for young trainees, particularly in the health sciences. Faculty development sessions geared toward a variety of learners are increasingly important to grow and develop future clinical researchers. The purpose of this session is to provide real-world applicable information on mentorship, developing research questions, engaging community stakeholders, writing for scientific publication, and balancing research with clinical practice in order to be successful in clinical research.

**Wednesday, May 31, 2017, 9:30 AM - 11:30 AM**

**Room:** 507

**Chair:** Alison Brooks. University of Wisconsin-Madison, Madison, WI.  
(No relationships reported)

**Getting Started in Research: Identifying Mentors and Developing a Research Question**

Daniel Herman, FACSM. University of Florida, Gainesville, FL.  
(No relationships reported)

**10:00 AM - 10:25 AM**

**Pursuing Community-based Sports Medicine Research**

Andrew Watson. University of Wisconsin-Madison, Madison, WI.  
(No relationships reported)

**10:25 AM - 10:50 AM**

**How to Write a Scientific Paper and Get Published**

Alison Brooks. University of Wisconsin-Madison, Madison, WI.  
(No relationships reported)

**10:50 AM - 11:15 AM**

**Battling for Balance between Research and Clinical Practice**

Irfan Asif. University of South Carolina Greenville, Greenville, SC.  
(No relationships reported)

**11:15 AM - 11:30 AM**

**Overall Discussion**

**A-16 Symposium - The “S” in ACSM: New Insights into Physiological Limitations to Sports Performance**

Since its inception in 1954, ACSM has been a leader in the science of sport performance. This session, including four top researchers in the field of sport sciences, will provide an update on the most recent findings on limitations to performance in four fundamental sport activities: sprinting, endurance running, cycling, and swimming. This session will have broad interest and application, from applied sport scientists, to basic scientists, to clinicians looking to encourage more youth participation in sports.

**Wednesday, May 31, 2017, 9:30 AM - 11:30 AM**

**Room:** 205

**9:30 AM - 9:35 AM**

**Chair:** Robert F. Chapman, FACSM. Indiana University / USA Track & Field, Bloomington, IN.  
(No relationships reported)

**9:35 AM - 10:00 AM**

**New Insights: Limitations to Sprint Performance**

Peter Weyand. Southern Methodist University, Dallas, TX.  
(No relationships reported)

**10:00 AM - 10:25 AM**

**New Insights: Limitations to Distance Running Performance**

Phil Saunders. Australian Institute of Sport, Canberra, Australia.  
(No relationships reported)

**10:25 AM - 10:50 AM**

**New Insights: Limitations to Cycling Performance**

Keenan Robinson. USA Swimming, Colorado Springs, CO.  
(No relationships reported)

**10:50 AM - 11:15 AM**

**New Insights: Limitations to Swimming Performance**

Asker Jeukendrup, FACSM. Loughborough University, London, United Kingdom.  
(No relationships reported)

**11:15 AM - 11:30 AM**

**Overall Discussion**

**www.acsm.org**
### Symposium - Updates in Management and Return to Play of the Female Athlete Triad – Translating Science to Best Practice

**Wednesday, May 31, 2017, 9:30 AM - 11:30 AM**  
**Room: 406**

This symposium will review the most recent updates for the Female Athlete Triad since the publication of the 2014 Female Athlete Triad Consensus Statement on Treatment and Return to Play of the Female Athlete Triad. Presenters will address results of the only randomized controlled trial assessing increased energy availability on Triad outcomes, the impact of stress on the Female Athlete Triad, updates on outcome studies utilizing the cumulative risk assessment for treatment and return to play of the Triad, and conclude with the translation of science toward best practice for management and return to play of the Female Athlete Triad.

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<th>Time</th>
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| 9:30 AM - 9:35 AM | **Chair:** Aurelia Nattiv, FACSM. University of California, Los Angeles, CA  
(No relationships reported) |
| 9:35 AM - 9:55 AM | **Increasing Energy Availability as Treatment for the Female Athlete Triad – Results of REFUEL, a Randomized Controlled Trial**  
Mary Jane De Souza, FACSM. Pennsylvania State University, State College, PA.  
(No relationships reported) |
| 9:55 AM - 10:15 AM | **Contributions of Stress to Menstrual Dysfunction in the Female Athlete Triad**  
Nancy Williams, FACSM. Pennsylvania State University, State College, PA.  
(No relationships reported) |
| 10:15 AM - 10:35 AM | **Clinical Outcome Studies of the Female Athlete Triad Risk Assessment and Return to Play – What Have We Learned?**  
Aurelia Nattiv, FACSM. University of California, Los Angeles, California, Los Angeles, CA.  
(No relationships reported) |
| 10:35 AM - 10:55 AM | **Translating Science into Clinical Practice: Updates to Recommendations for Clinical Practice in Management of the Female Athlete Triad**  
Elizabeth Joy, FACSM. Intermountain Healthcare, Salt Lake City, UT.  
(No relationships reported) |
| 10:55 AM - 11:30 AM | Overall Discussion |

### Exercise is Medicine® - Symposium - Active Women During the Lifespan: The Impact of Exercise for Health and Well-being

**Wednesday, May 31, 2017, 9:30 AM - 11:30 AM**  
**Room: Hotel-Centennial Ballroom D**

In this symposium, we want to focus on why and how exercise impact on health in girls and women during different stages of life. How can we contribute to the effectiveness of exercise interventions in pregnant women? How can we keep active girls active? How to use and not abuse exercise and what are the long term consequences of athletic participation? How can we use exercise to develop and maintain lifelong strong bones? Finally, what are the latest news for exercise in elderly women? The talks will be reviewed and discussed based on the latest scientific evidence.

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| 9:30 AM - 9:35 AM | **Chair:** Jorunn Sundgot-Borgen, FACSM. The Norwegian School of Sport Sciences, Oslo, Norway.  
(No relationships reported) |
| 9:35 AM - 9:50 AM | **To Learn from Practice: How to Increase the Effectiveness of Exercise Interventions for Pregnant Women?**  
Lene Annette Hagen Haakstad. The Norwegian School of Sport Sciences, Oslo, Norway.  
(No relationships reported) |
| 9:50 AM - 10:05 AM | **From Active Toddlers to Active Adolescent Girls: Why and How?**  
Elin Kolle. The Norwegian School of Sport Sciences, Oslo, Norway.  
(No relationships reported) |
| 10:05 AM - 10:20 AM | **Too Much of a Good Thing: Identification and Management of Excessive and Compulsive Exercise**  
Solfrid Bratland-Sanda. University College of Southeast Norway, By, Norway.  
(No relationships reported) |
| 10:20 AM - 10:35 AM | **Former Elite Athletes: More Happy and Healthy than Controls?**  
Jorunn Sundgot-Borgen, FACSM. The Norwegian School of Sport Sciences, Oslo, Norway.  
(No relationships reported) |

### Symposium - Resistance Training as Medicine for Chronic Disease

**Wednesday, May 31, 2017, 9:30 AM - 11:30 AM**  
**Room: Hotel-Centennial Ballroom D**

Resistance training is emerging as a powerful treatment for a variety of chronic diseases beyond its basic utility as an antidote to sarcopenia. The mechanisms of benefit, dose-response characteristics, and implementation models and effectiveness require further study for many diseases. We will present the physiological rationale, clinical trial evidence base, and practical recommendations for the use of resistance training in cardiac rehabilitation, osteoarthritis, neurodegenerative disease/dementia, and peripheral vascular disease.

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| 9:30 AM - 9:35 AM | **Chair:** Maria A. Fiatarone Singh. University of Sydney, Sydney, CA, Australia.  
(No relationships reported) |
Aging: Physical Activity

Chair: Loretta DiPietro, FACSM. The George Washington University, Washington, DC.
(No relationships reported)

Interventions that Improve Prognostic and Work-Related Outcomes

A Novel Approach To Calculate Work Rate On A Treadmill (TM) In Early-and Late-pubertal Children

Ronen Bar-Yoseph1, Janos Porszasz2, Pearla Ramzi3, Patricia A. Barlow4, Daniel Cooper5
1The University of Arizona, Tucson, AZ. 2The George Washington University, Washington, DC. 3University of Massachusetts Boston, Boston, MA. 4The University of Arizona, Tucson, AZ. 5Tyler Junior College, Tyler, TX.
(No relationships reported)

Board #4
9:30 AM - 11:30 AM
Effects of Tai Chi on Mobility in Older Adults with Multisite Pain

Tongjian You, FACSM1, Elisa Ogawa1, Starla Thapa1, Yanun Cai1, Huan Zhang2, Satoshi Nagaie1, Gloria Yeh1, Peter Wayn3, Suzanne Leveille1, 1University of Massachusetts Boston, Boston, MA. 2Huan's Tai Chi, Cambridge, MA. 3Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA. 4Brigham and Women's Hospital and Harvard Medical School, Boston, MA.
Email: tongjian.you@umass.edu
(No relationships reported)

Board #5
9:30 AM - 11:30 AM
A 3-Month Dalcero Eurythmics Intervention May Improve Gait Speed in Community Dwelling Elderly Participants

Lisa Ferguson-Stegall, Mandy Yang, Anthony S. Wolfe, Kathy Thomsen. Hamline University, Saint Paul, MN. (Sponsor: Donald Dengel, PhD, FACSM)
Email: lstegall01@hamline.edu
(No relationships reported)

Board #6
9:30 AM - 11:30 AM
Yearlong Walking Exercise Improves Depression and Health-related Quality of Life in Older Adults

Takami Aoki1, Haruo Sakuma2, Kojiro Ishii2, 1Doshisha University, Kyoto, Japan. 2Ritsumeikan University, Shiga, Japan. (Sponsor: Susumu S. Sawada, FACSM)
(No relationships reported)

Board #7
9:30 AM - 11:30 AM
Physical Activity and Sedentary Behavior of Older Adults Related to Physiological Metrics of Walking Effort

Dain P. LaRoche, FACSM, Edward L. Melanson, FACSM, Morgan P. Baumgartner1, Breanna M. Bozzuto1, Victoria M. Libby1, 1The University of New Hampshire, Durham, NH. 2University of Colorado Anschutz Medical Campus, Denver, CO.
Email: dain.laroche@unh.edu
(No relationships reported)

Board #8
9:30 AM - 11:30 AM
Physical Activity and Sedentary Behavior of Older Adults Related to Physiological Metrics of Walking Effort

Dain P. LaRoche, FACSM, Edward L. Melanson, FACSM, Morgan P. Baumgartner1, Breanna M. Bozzuto1, Victoria M. Libby1, 1The University of New Hampshire, Durham, NH. 2University of Colorado Anschutz Medical Campus, Denver, CO.
Email: dain.laroche@unh.edu
(No relationships reported)

Board #9
9:30 AM - 11:30 AM
Public Health and Social Science Interventions to Promote Physical Activity among Older Adults

Michael J. Biddle, FACSM, Alexander J. Biddle, FACSM, 1University of Leeds, Leeds, UK. 2University of Colorado, Boulder, CO. (Sponsor: John Bartholomew, FACSM)
Email: mcbiddle@colorado.edu
(No relationships reported)

Board #10
9:30 AM - 11:30 AM
The Impact of Tai Chi on Cognitive Function and Quality of Life of Older Adults

Koichiro Oka2, Neville Owen3. 1The University of Arizona, Tucson, AZ. 2The University of Massachusetts, Amherst, MA. 3University of Canberra, Canberra, Australia.
Email: koichiro.oka@u.arizona.edu
(No relationships reported)

Board #11
9:30 AM - 11:30 AM
Effects of Tai Chi on Balance in Older Adults: A Systematic Review

Hua Zhanga, Jie Jia, Ying Liu, Hua Liya, Xue Sunb, 1Peking University, Beijing, China. 2Tsinghua University, Beijing, China. (Sponsor: Weimo Zhu, FACSM)
Email: tongjian.you@umb.edu
(No relationships reported)

Board #12
9:30 AM - 11:30 AM
A New Formula For Measuring Physical Activity in Older Adults: The Ability of Tai Chi to Improve Physical Function

Haiyan Li1, Yang Zhang1, Jie Jia1, Ying Liu1, 1Peking University, Beijing, China. (No relationships reported)
Email: haiyan2@illinois.edu
(No relationships reported)

Board #13
9:30 AM - 11:30 AM
Effects of Tai Chi on Mobility in Older Adults with Multisite Pain

Tongjian You, FACSM1, Elisa Ogawa1, Starla Thapa1, Yanun Cai1, Huan Zhang2, Satoshi Nagaie1, Gloria Yeh1, Peter Wayn3, Suzanne Leveille1, 1University of Massachusetts Boston, Boston, MA. 2Huan's Tai Chi, Cambridge, MA. 3Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA. 4Brigham and Women's Hospital and Harvard Medical School, Boston, MA.
Email: tongjian.you@umass.edu
(No relationships reported)

Board #14
9:30 AM - 11:30 AM
A 3-Month Dalcero Eurythmics Intervention May Improve Gait Speed in Community Dwelling Elderly Participants

Lisa Ferguson-Stegall, Mandy Yang, Anthony S. Wolfe, Kathy Thomsen. Hamline University, Saint Paul, MN. (Sponsor: Donald Dengel, PhD, FACSM)
Email: lstegall01@hamline.edu
(No relationships reported)

Board #15
9:30 AM - 11:30 AM
Yearlong Walking Exercise Improves Depression and Health-related Quality of Life in Older Adults

Takami Aoki1, Haruo Sakuma2, Kojiro Ishii2, 1Doshisha University, Kyoto, Japan. 2Ritsumeikan University, Shiga, Japan. (Sponsor: Susumu S. Sawada, FACSM)
(No relationships reported)

Board #16
9:30 AM - 11:30 AM
Physical Activity and Sedentary Behavior of Older Adults Related to Physiological Metrics of Walking Effort

Dain P. LaRoche, FACSM, Edward L. Melanson, FACSM, Morgan P. Baumgartner1, Breanna M. Bozzuto1, Victoria M. Libby1, 1The University of New Hampshire, Durham, NH. 2University of Colorado Anschutz Medical Campus, Denver, CO.
Email: dain.laroche@unh.edu
(No relationships reported)

Board #17
9:30 AM - 11:30 AM
Public Health and Social Science Interventions to Promote Physical Activity among Older Adults

Michael J. Biddle, FACSM, Alexander J. Biddle, FACSM, 1University of Leeds, Leeds, UK. 2University of Colorado, Boulder, CO. (Sponsor: John Bartholomew, FACSM)
Email: mcbiddle@colorado.edu
(No relationships reported)

Board #18
9:30 AM - 11:30 AM
The Impact of Tai Chi on Cognitive Function and Quality of Life of Older Adults

Koichiro Oka2, Neville Owen3. 1The University of Arizona, Tucson, AZ. 2The University of Massachusetts, Amherst, MA. 3University of Canberra, Canberra, Australia.
Email: koichiro.oka@u.arizona.edu
(No relationships reported)

Board #19
9:30 AM - 11:30 AM
Effects of Tai Chi on Balance in Older Adults: A Systematic Review

Hua Zhanga, Jie Jia, Ying Liu, Hua Liya, Xue Sunb, 1Peking University, Beijing, China. 2Tsinghua University, Beijing, China. (Sponsor: Weimo Zhu, FACSM)
Email: tongjian.you@umb.edu
(No relationships reported)

Board #20
9:30 AM - 11:30 AM
A New Formula For Measuring Physical Activity in Older Adults: The Ability of Tai Chi to Improve Physical Function

Haiyan Li1, Yang Zhang1, Jie Jia1, Ying Liu1, 1Peking University, Beijing, China. (No relationships reported)
Email: haiyan2@illinois.edu
(No relationships reported)
93 Board #4 9:30 AM - 11:30 AM
Interpretation Variations in Height Growth: a Potential Explanation for Differences in Adolescent Swim Performance
Kosuke Kojima1, Paul L. Janisori2, Christopher L. Branner3, Joel M. Stager, FACSM,1 1Consultant Center for the Science of Swimming, Indiana University, Bloomington, IN. 2Indiana University, Bloomington, IN. (Sponsor: Joel Stager, FACSM)
Email: koko@iu.edu
(No relationships reported)

94 Board #5 9:30 AM - 11:30 AM
Activity Profile of Pokemon GO in College Students
Charles Fountaine, Emily Springer, Jasmine Sward. University of Minnesota Duluth, Duluth, MN. (Sponsor: John R. Keener, FACSM)
Email: cfountain@d.umn.edu
(No relationships reported)

95 Board #6 9:30 AM - 11:30 AM
Associations Among Perceived Motor Competence, Motor Competence, Physical Activity, and Health-related Physical Fitness Of Children Ages 10-15 Years Old.
Emily M. Post1, Dawn P. Coe, FACSM2, Eugene C. Fitzhugh2, Jeffrey T. Fairbrother2. 1The Ohio State University, Columbus, OH. 2The University of Tennessee, Knoxville, TN. (Sponsor: Dr. William Kraemer, FACSM)
(No relationships reported)

96 Board #7 9:30 AM - 11:30 AM
Tracking Physical Activity and Sedentary Behavior in Adolescents using a Mobile Application
Todd Buckingham, Karin Pfeiffer, FACSM. Michigan State University, East Lansing, MI.
Email: buckin21@msu.edu
(No relationships reported)

97 Board #8 9:30 AM - 11:30 AM
Fitness, Adiposity, Sports Participation, and Arterial Stiffness in Youth With Chronic Diseases or Physical Disabilities.
Tim Takken1, Kristel Lankhorst2, Frank Backx1. 1HU University of Applied Sciences, Utrecht, Utrecht, Netherlands. 2UMC Utrecht, Utrecht, Netherlands.
Email: tltakken@umcutrecht.nl
(No relationships reported)

98 A-22 Thematic Poster - Diseased Muscle: Cancer and Muscle Dystrophy
Wednesday, May 31, 2017, 9:30 AM - 11:30 AM
Room: 404

Chair: Christopher G. Ballmann, Samford University, AL. (No relationships reported)

99 Board #1 9:30 AM - 11:30 AM
The Effects Of Creatine And Creatine On Rates Of Apoptosis In Doxorubicin-treated Myoblasts
Eric C. Bredahl, Sarah A. Kotteneset, Nathaniel R. Marshall, Meghan K. Wagner, Kristen Drescher, Joan M. Eckerson. Creighton University, Omaha, NE. (Sponsor: Joan Eckerson, FACSM)
Email: ericbredahl@creighton.edu
(No relationships reported)
A-23  Exercise is Medicine® Thematic Poster - EIM On Campus
Wednesday, May 31, 2017, 9:30 AM - 11:30 AM
Room: 101

107  Chair: Carena Sue Winters, FACSM. Slippery Rock University, Slippery Rock, PA. (No relationships reported)

108  Board #1  9:30 AM - 11:30 AM
University Physical Activity Classes: Impact on Students’ Body Weight and 1.5-Mile Run Performance
Wenhao Liu, FACSM, Ethan E. Hull, Istvan Kovacs. Slippery Rock University, Slippery Rock, PA.
Email: wenhao.liu@srzu.edu (No relationships reported)

109  Board #2  9:30 AM - 11:30 AM
Pokemon Is Medicine: On (BYU) Campus
Neil E. Peterson, Kielee L. Wiser, Hannah M. Schmidtlein, Craig Nuttall, James D. LeCheminant. Brigham Young University, Provo, UT.
Email: neil.peterson@byu.edu (No relationships reported)

110  Board #3  9:30 AM - 11:30 AM
Exercise Is Medicine On Campus Week 2016: Increasing Campus-wide Integration and Coordination
Zack Papalia, Melissa Bopp, FACSM, Christopher Bopp, Michele Duffey, Lori Gravish-Hurtack, Nancy I. Williams, FACSM. Pennsylvania State University, University Park, PA. (Sponsor: Melissa Bopp, PhD, FACSM)
Email: zvp5003@psu.edu (No relationships reported)

111  Board #4  9:30 AM - 11:30 AM
To Use The Reach, Effectiveness, Adoption, Implementation, Maintenance (reach) Methodology To Evaluate Exercise Is Medicine- On Campus Program (eim-oc)
Rene Jeffreys - Heil, Patricia Bauer, Eric Shamus, Mitchell L. Cordova, FACSM. Florida Gulf Coast University, Fort Myers, FL. (Sponsor: Mitchell L. Cordova, FACSM)
Email: rjjeffreysheil@fgcu.edu (No relationships reported)

112  Board #5  9:30 AM - 11:30 AM
Exercise Is Medicine On Campus: Case Study Of Resistance Training On Chronic Low Back Pain
Michael D. Carnevale, Gregory Hamman, Bryan Rudd, Melissa W. Roti, FACSM. Westfield State University, Westfield, MA. (No relationships reported)

113  Board #6  9:30 AM - 11:30 AM
An Exploration Of Exercise Is Medicine-on Campus Marketing And Engagement
Amy Gyrkos, Lindsay DesArmo, Amy Campbell, Heather Peddie, Katelyn Morris, Chris Dondzila. Grand Valley State University, Allendale, MI. (Sponsor: Steve Glass, FACSM)
Email: gyorkosa@gvsu.edu (No relationships reported)

114  Board #7  9:30 AM - 11:30 AM
Physical Activity Counseling in College Students
Christopher M. Bopp, Melissa Bopp, FACSM, Zack Papalia. Pennsylvania State University, University Park, PA. (Sponsor: Melissa Bopp, FACSM)
Email: cmb56@psu.edu (No relationships reported)

115  Board #8  9:30 AM - 11:30 AM
Exercise Self-efficacy And Social Support In Community Training: An Exercise Is Medicine On Campus Initiative
Troy R. Doning, Nicole R. Lanoie, Frank A. Hoyle, Melissa W. Roti, FACSM. Westfield State University, Westfield, MA. (No relationships reported)

A-24  Thematic Poster - Energy Availability and Expenditure
Wednesday, May 31, 2017, 9:30 AM - 11:30 AM
Room: 403

116  Chair: Melinda Manore, FACSM. Oregon State University, Corvallis, OR. (No relationships reported)

117  Board #1  9:30 AM - 11:30 AM
Dietary Carbohydrate Restriction Is Necessary For High-Fat Diet Induced Alterations In Substrate Oxidation During Exercise
Gareth Fletcher1, Elisa I. Glover2, Janice L. Thompson, FACSM1, Gareth A. Wallis1. 1University of Birmingham, Birmingham, United Kingdom; 2University of Otago, Dunedin, New Zealand.
Email: gareth.x.fletcher@gsk.com (No relationships reported)

118  Board #2  9:30 AM - 11:30 AM
Metabolic and Behavioral Correlates of Low Energy Availability in Exercising Men
Jay Petersen. University of Nebraska at Lincoln, Lincoln, NE.
Email: jpetersen22@huskers.unl.edu (No relationships reported)

119  Board #3  9:30 AM - 11:30 AM
Energy Availability Amongst Elite Rugby Union Players During Pre-Season Training
Katherine Black1, Chloe Hindle1, Claire Gibson1, Joanne Slater1, Dane Baker2, Phil Healey3, Rebecca McLay-Cooke1, Rachel Brown1, Brett Smith1. 1University of Otago, Dunedin, New Zealand; 2University of Waikato, Hamilton, New Zealand; 3University of South Carolina, Columbia, SC.
Email: katherine.black@otago.ac.nz (No relationships reported)

120  Board #4  9:30 AM - 11:30 AM
Energy Availability and Muscle Glycogen Levels in Division I Beach Volleyball Athletes
Marguerite B. Gilchrist1, Toni M. Torres-McGhee1, Meaghan Minor1, Dawn M. Emerson2, Kelly Pritchett3. 1University of South Carolina, Columbia, SC; 2Kansas University, Lawrence, KS; 3Central Washington University, Ellensburg, WA.
(No relationships reported)

121  Board #5  9:30 AM - 11:30 AM
A Novel Method Of Assessing Dietary Behavior Using A Wrist-Worn Accelerometer
Kyle N. Winfree, Natalia O. Dmitrieva, Timothy K. Behrens, FACSM. Northern Arizona University, Flagstaff, AZ. (Sponsor: Timothy K. Behrens, FACSM)
Email: kyle.winfree@nau.edu (No relationships reported)

122  Board #6  9:30 AM - 11:30 AM
Effect Of Exercise-induced Weight Loss On 24 Hour Energy Metabolism
Nicholas T. Broskey, Corby K. Martin, Jeffrey H. Barton, John W. Apolzan, Melissa Harris, Timothy S. Church, Eric Ravussin, Leanne M. Redman. Pennington Biomedical Research Center, Baton Rouge, LA.
Email: nick.broskey@pbrce.edu (No relationships reported)
<table>
<thead>
<tr>
<th>Board #7</th>
<th>9:30 AM - 11:30 AM</th>
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<tbody>
<tr>
<td>Validity of Self-Reported Energy Intake Compared to Resting Metabolic Rate in Athletes</td>
<td></td>
</tr>
<tr>
<td>Virginia R. Lemon1, Jody Herman1, Emily N. Werner, 191021, Jacquie Van Grounv1, Rachel C. Kelley2, Francesco Alessio1, Michael L. Bruneru1, Stella L. Wolpe, 191022, FACSM3. 1Drexel University, Philadelphia, PA. 2University of Florida, Gainesville, FL. (Sponsor: Stella Lucia Volpe, FACSM) Email: <a href="mailto:vr132@drexel.edu">vr132@drexel.edu</a></td>
<td></td>
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<td>(No relationships reported)</td>
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<tr>
<td>Board #8</td>
<td>9:30 AM - 11:30 AM</td>
</tr>
<tr>
<td>Metabolic Responses to Acute Aerobic and Anaerobic Exercise Bursts</td>
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<tr>
<td>Joseph K. Pellegrino1, Christopher E. Ordway1, Sean P. Conway2, Alan J. Walker1, Marissa J. Bello1, Anthony Poysick1, Eddie B. Capone1, Nick Mackowski1, David J. Sanders1, Bridget A. McNadder2, Morgan Hofacker2, Peter J. Gille13, Shawn M. Arent2, FACSM2. 3Rutgers University, Rutgers Center for Health &amp; Human Performance, New Brunswick, NJ. 4DURO Health, New York, NY. (Sponsor: Shawn M Arent, FACSM) Email: <a href="mailto:joepell@rutgers.edu">joepell@rutgers.edu</a></td>
<td></td>
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<td>(No relationships reported)</td>
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</tbody>
</table>

### A-25 Free Communication/Slide - Respiratory Physiology

**Wednesday, May 31, 2017, 9:30 AM - 11:15 AM**  
**Room: 110**

| Chair: Michael Stickland. University of Alberta, Edmonton, AB, Canada.  |
| (No relationships reported)  |

| 9:30 AM - 9:45 AM  |
| Inspiratory Flow Resistive Loaded Breathing and Inspiratory Muscle Induced Systemic Oxidative Stress  |
| Dean E. Mills1, Kurt Vogel1, Michael A. Johnson2, Graham R. Sharpe1, Jeff S. Coombes1, FACSM2, David R. Briske1. 1University of Southern Queensland, Ipswich, Australia. 2Nottingham Trent University, Nottingham, United Kingdom. 3The University of Queensland, Brisbane, Australia. (Sponsor: Jeff S. Coombes, FACSM) Email: dean.mills@usq.edu.au  |
| (No relationships reported)  |

| 9:45 AM - 10:00 AM  |
| Competitive Runners Can Adapt To Nasal Breathing With Similar Peak Running Velocity And Lower Ventilation  |
| Steve R. McClaran, George M. Dillam, Carol P. Fount. Colorado State University Pueblo, Pueblo, CO.  |
| Email: steve.mcclaran@csupueblo.edu  |
| (No relationships reported)  |

| 10:00 AM - 10:15 AM  |
| Does Competitive Swimming During Puberty Affect Lung Development?  |
| Joshua M. Bovard, Joseph F. Welch, Kristin M. Houghton, Donald C. McKenzie, James E. Potts, A. William Sheel, FACSM. 1University of British Columbia, Vancouver, BC, Canada. (Sponsor: A. William Sheel, FACSM) Email: jmb@med.ubc.ca  |
| (No relationships reported)  |

| 10:15 AM - 10:30 AM  |
| Operational Lung Volumes While Seated, Supine, and During Exercise in Obese and Nonobese Children  |
| Dharini M. Blammar1, Jonathon L. Stickford1, Vipa Bembhardt1, Rabria Marines-Price1, J. Todd Bassett1, Maria C. Roman1, Tony G. Babb, FACSM1. 1Valdosta State University, Valdosta, GA. 2Appalachian State University, Boone, NC. 3Texas A&M University-Commerce, Commerce, TX. 4Institute for Exercise and Environmental Medicine, Dallas, TX. Email: dmbjammar@valdosta.edu  |
| (No relationships reported)  |

### A-26 Free Communication/Slide - Thermoregulation in Clinical Populations

**Wednesday, May 31, 2017, 9:30 AM - 10:45 AM**  
**Room: 103**

| Chair: Jody Greaney. Pennsylvania State University, University Park, PA.  |
| (No relationships reported)  |

| 9:30 AM - 9:45 AM  |
| Core Temperature Responses To Exercise Using A Simulated Burn Injury Model: Impact Of Body Size  |
| Matthew N. Cramer, Ken Kouda, Gilbert Moralez, Paula Y.S. Poh, Daniel Gagnon, Craig G. Crandall, FACSM. Institute for Exercise and Environmental Medicine, Dallas, TX. (Sponsor: Craig Crandall, FACSM) Email: matthewcramer2@texashealth.org  |
| (No relationships reported)  |

| 9:45 AM - 10:00 AM  |
| Does the Exercise-Induced Heat Load Influence Whole-Body Heat Loss in Type 1 Diabetes?  |
| Sheila Dervis1, Martin P. Poirier1, Pierre Boulay2, Ronald J. Sigal1, Janine Malcolm1, Naoto Fujii1, Glen P. Kenny1. 1University of Ottawa, Ottawa, ON, Canada. 2University of Sherbrooke, Sherbrooke, QC, Canada. 3University of Calgary, Calgary, AB, Canada. (No relationships reported)  |

| 10:00 AM - 10:15 AM  |
| Are Type 2 Diabetes-Related Impairments in Heat Dissipation Heat Load Dependent?  |
| Martin P. Poirier1, Sheila Dervis1, Pierre Boulay2, Ronald J. Sigal1, Janine Malcolm1, Glen P. Kenny1, 2University of Ottawa, Ottawa, ON, Canada. 3University of Sherbrooke, Sherbrooke, QC, Canada. 4University of Calgary, Calgary, AB, Canada. Email: mpoir026@uottawa.ca  |
| (No relationships reported)  |
A-27  Clinical Case Slide - Cardiovascular I  
Wednesday, May 31, 2017, 9:30 AM - 10:50 AM  
Room: 401

139  Chair: Aaron L. Baggish, FACSM. Massachusetts General Hospital, Boston, MA.  
(No relationships reported)

140  Discussant: Paul D. Thompson, FACSM. Hartford Hospital, Hartford, CT.  
(No relationships reported)

141  Discussant: Jeffrey M. Mjaanes, FACSM. Northwestern University, Evanston, IL.  
(No relationships reported)

142  9:30 AM - 9:50 AM  
He's All Heart  
Elana Bannerman1, John H. Stevenson1, Pierre Rouzier, FACSM2, Greg Little3. 1University of Massachusetts, Worcester, MA.  
2University of Massachusetts, Amherst, MA.  
3Southwest Medical Center, Dallas, TX.  
(No relationships reported)

143  9:50 AM - 10:10 AM  
Aortic Root Dilation in Professional SCUBA Diver  
Francisco Morales1, Araceli Boraita2, Maria-Eugenia Heras2, Manuel Marina-Breyuse2, Alvaro N. Gurovich, FACSM1. 1Indiana State University, Terre Haute, IN. 2Spanish Sports Health Protection Agency, Madrid, Spain. (Sponsor: Margot Putukian, FACSM)  
Email: f.morales.acuna@gmail.com  
(No relationships reported)

144  10:10 AM - 10:30 AM  
Transitory Cardiomyopathy In An Elite Swimmer: A Case Study  
Demitri Constantinou. Faculty of Health Sciences, University of the Witwatersrand, Wits, South Africa. (Sponsor: Yoganathan (Yoga) Coopoo, FACSM)  
Email: demitri.constantinou@wits.ac.za  
(No relationships reported)

146  10:30 AM - 10:50 AM  
Chest Pain- Volleyball  
Samuel T. Dona, Jr1, Jeffrey M. Mjaanes, FACSM2. 1Rush University Medical Center, Chicago, IL. 2Northwestern University, Evanston, IL. (Sponsor: Jeffrey M Mjaanes, FACSM)  
Email: Samuel_T_Dona@rush.edu  
(No relationships reported)
A-29  Clinical Case Slide - Shoulder I  
**Wednesday, May 31, 2017, 9:30 AM - 11:30 AM**

**Room:** 504

**Chair:** Kyle J. Cassas, FACSM. Greenville Health System, Greenville, SC.  
(No relationships reported)

**Discussant:** Jessica R. Fudge. Group Health Cooperative, Seattle, WA.  
(No relationships reported)

**Discussant:** Dustin Nabhan. United States Olympic Committee, Colorado Springs, CO.  
(No relationships reported)

**9:30 AM - 9:50 AM**

**Biceps Pain - Rock Climber**

Stephanie Kramer1, Darius Greenbacher2, Pierre Rouzier, FACSM3.

1Baystate Medical Center, Springfield, MA. 2Baystate Medical Practices, Northampton, MA. 3University of Massachusetts, Amherst, MA.  
(Sponsor: Pierre Rouzier, FACSM)

Email: stephanie.kramerDO@baystatehealth.org

(No relationships reported)

**10:10 AM - 10:30 AM**

**Right Shoulder Pain**

Arie (Eric) Dadush1, Vincent Morelli1, James Johnson2. 1Meharry medical college, Nashville, TN. 2Elite Sports Medicine, Nashville, TN.

Email: ericdadush@gmail.com

(No relationships reported)

**10:50 AM - 11:00 AM**

**Chronic Axillary Pain and Weakness in a Recreational Weight Lifter**

Christopher Chong, 19064, Kevin Duprey. Crozer Keystone, Springfield, PA.  
(Sponsor: Thomas Kaminski, FACSM)

(No relationships reported)

**10:50 AM - 11:10 AM**

**Shoulder Injury in a College Football Player**

Ward McCracken1, Justin Byers2, Dave Smith1. 1University of Minnesota, Minneapolis, MN. 2Bethel University, St Paul, MN.  
(Sponsor: Suzanne Hecht, MD, FACSM)

(No relationships reported)

**11:10 AM - 11:30 AM**

**Subacute Presentation of an Elbow Injury- Work Related Delayed by Insurance**

Ali Ashraf1, John Chappa2, Melinda Schalow3, Mimi Zumwalt1.  
1Texas Tech University Health Sciences Center, Lubbock, TX. 2John Chappa, Lubbock, TX. 3Melinda Schalow, Lubbock, TX.  
(Sponsor: Jaclyn J. Robert-McComb, FACSM)

(No relationships reported)
A-33 Clinical Workshop-Hands On Demonstration - Physical Assessment of Oculomotor and Vestibular Dysfunction in Concussion
Wednesday, May 31, 2017, 9:30 AM - 10:20 AM
Room: 501

Clinical Hands-On Session focusing on the education for providers on how to diagnose, find and then treat vestibular dysfunction, oculomotor and cerebellar findings in concussed athletes.

173 Ann McNamara, CU Sports Medicine and Performance Center, Boulder, CO.
(No relationships reported)

A-34 Exercise is Medicine® - Tutorial Lecture - Integrating Wellness Referrals, Fitness Testing, and Coaching in a Public Hospital System
Wednesday, May 31, 2017, 9:30 AM - 10:20 AM
Room: Hotel-Centennial Ballroom A

Eskenazi Health’s Healthy Me program focuses on supporting overall patient health and wellbeing through lifestyle self-management. Patients are referred to health coaches who are housed in and employed by the same healthcare system as the referring providers. Coaches perform physical and survey assessments with each patient and refer patients to community fitness resources. In January 2016, fitness assessments were included in electronic patient health records. In October 2016, fitness assessments will be added to Eskenazi’s new Epic electronic health records system. We will present the process of implementing fitness measures into Epic, patient fitness outcomes, and other fitness-related health outcomes.

174 NCole R. Keith, FACSM, Indiana University Center for Aging Research, Indianapolis, IN.
(No relationships reported)
175 Ryan Bojrab, Eskenazi Health, Indianapolis, IN.
(No relationships reported)

A-35 Tutorial Lecture - Benefits of Physical Activity With and Without Weight Loss
Wednesday, May 31, 2017, 10:40 AM - 11:30 AM
Room: 607

Adults who are overweight or obese may receive a recommendation to exercise, but the results of exercise alone on body weight is modest. Thus a paradigm shift is needed to redirect expectations to center around the many other “pros” of exercise. Exercise is critical to maintain the health of people who are overweight or obese, because they often suffer from unfavorable cardiometabolic disease risk factors and chronic diseases such as CHD, diabetes mellitus, osteoarthritis, and depression, among others. This presentation will review the evidence for the health and fitness benefits of physical activity, discuss the role of physical activity in weight management, and discuss the underlying physiological mechanisms supporting the biological plausibility for exercise as a part of the medical treatment of people who are overweight or obese.

176 Carol Ewing Garber, FACSM, Teachers College, Columbia University, New York, NY.
(No relationships reported)

A-36 Tutorial Lecture - Health and Wellness Coaching: Evidence, Applications, and Emerging Professional Opportunities
Wednesday, May 31, 2017, 10:40 AM - 11:30 AM
Room: 603

To familiarize the audience, a short time (10 min) will be spent defining health/wellness coaching (HWC) and presenting strategies/practices involved. This will be followed by describing existing evidence (pro/con) for using HWC in wellness and clinical settings, and, remaining questions surrounding HWC research. Discussing how HWC skills are applied by both exercise physiologists and clinical exercise physiologists will provide useful information for audience practitioners. Lastly, describing new standards and a national certification to be implemented in 2017 (oversight by National Board of Medical Examiners) will lead to discussion of HWC career opportunities. Remaining time for audience questions/comments and discussion.

177 Gary A. Sforzo, FACSM, Ithaca College, Ithaca, NY.
(No relationships reported)

Wednesday, May 31, 2017, 10:40 AM - 11:30 AM
Room: 501

A review of the role of vision in sports, relationship between vision and on-field performance, and how vision can and should become a part of every program in order to maximize success.

178 Daniel M. Laby, State University of New York College of Optometry, New York, NY.
(No relationships reported)

A-38 Exercise is Medicine® - Tutorial Lecture - Exercise is Medicine for Patients with Advanced Cancer
Wednesday, May 31, 2017, 10:40 AM - 11:30 AM
Room: Hotel-Centennial Ballroom A

This tutorial lecture will review the published evidence for exercise among patients with advanced/metastatic cancer. Benefits and risks will be reviewed. Practical tips for clinical programs in rehabilitative exercise for patients with advanced cancer will be reviewed.

179 Kathryn H. Schmitz, FACSM, Penn State Cancer Institute, Hershey, PA.
(No relationships reported)

A-39 Basic Science World Congress/Poster - Motor Control and Movement Disorders
Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

180 Board #1 9:30 AM - 11:00 AM Rock Climbing as a Novel Intervention to Improve Function in Parkinson’s Disease: A Case Series
Email: jgwool@gwu.edu
(No relationships reported)

181 Board #2 9:30 AM - 11:00 AM Impact of Rock Climbing on Complex Tasks in Persons with Parkinson’s Disease: A Case Series
Susan J. Leach, Elizabeth Ruckert, Natalia Aguero, Joshua G. Woolstenhulme, George Washington University, Washington, DC.
Email: leachs@gwu.edu
(No relationships reported)

182 Board #3 9:30 AM - 11:00 AM Val66Met Polymorphism’s Influence On Depression Symptoms And Responses To Exercise In Individuals With Parkinson’s Disease
Sara A. Harper, 44883, Angela L. Ridgel, 1Tiffin University, Tiffin, OH. 2Kent State University, Kent, OH. (Sponsor: Dr. Ellen Glickman, FACSM)
Email: harpersa@tiffin.edu
(No relationships reported)
Final Program

**Board #5**

9:30 AM - 11:00 AM

**Cerebellar Transcranial Direct Current Stimulation For Motor Function In Parkinson’s Disease**

Lidio Lima de Albuquerque, Katherine Fischer, Song Yo, Merrill Landers, Brach Poston. University of Nevada, Las Vegas, Las Vegas, NV. (Sponsor: John C. Young, FACSM)

Email: limadeal@unlv.nevada.edu

N V.

(No relationships reported)

**Board #6**

9:30 AM - 11:00 AM

**The Effects of Water Aerobics Exercise on Cerebral Perfusion in Multiple Sclerosis**

Brandon S. Pollock,1 Jennifer Petersen,1 Hayden Gerhart,1 John McDaniel1, Mary Beth Spitznagel1, Angela Ridgel1.1 Kent State University, Kent, OH. 2 Indiana University of Pennsylvania, Indiana, PA.

Email: bpolloc5@kent.edu

(No relationships reported)

**Board #7**

9:30 AM - 11:00 AM

**Effect Of Aquatic-treadmill Training On Cerebrovascular Function In Community-dwelling Stroke Survivors: A Pilot Study**

Samuel J.E. Lucas, Karen Thomas, Rachel L. Wright, Jill R.E. Ramsay, Alexandra L. Medwell, Claire V. Burley. University of Birmingham, Birmingham, United Kingdom. (Sponsor: Professor Damian Bailey, FACSM)

Email: s.j.e.lucas@bham.ac.uk

(No relationships reported)

**Board #8**

9:30 AM - 11:00 AM

**Effect Of Multidirectional And Unidirectional Exercises On Brain Blood Flow Activation In Chronic Stroke Patients**

Eunkyung Park1, Kyungock Yi1, Youngsoo Jin1, Chang-Hyun Park2, Soojin Yoo2, Juehyun Yoo2, Yoonjung Park1.1 University of Houston, Texas, TX. 2Ewha Womans University, Seoul, Korea, Republic of.

2Konkuk Medical College, Seoul, Korea, Republic of. 3University of Texas Rio Grande Valley, McAllen, TX. 4Sahmyook University, Seoul, Korea, Republic of.

Email: jennyjang1004@gmail.com

(No relationships reported)

**Board #9**

9:30 AM - 11:00 AM

**Influence of Aerobic Exercise Intensity on Acute Changes in Motor Activation Post-Stroke**

Connor M. Jansen1, Dustyn Whitesel1, Colleen Meyrose1, Jennifer Relyea1, Pierce Boyne2.1 University of Cincinnati, Cincinnati, OH. 2Ohio State University, Columbus, OH.

Email: jennyjang1004@gmail.com

(No relationships reported)

**Board #10**

9:30 AM - 11:00 AM

**CN-NIM Intervention For The Neurorehabilitation Of Disordered Speech And Emotion**

Dafna Palnin, Yari Danilov, Mitchel Tyler. University of Wisconsin, Madison, WI.

(No relationships reported)

**Board #11**

9:30 AM - 11:00 AM

**Lower Extremity Function in Different Cognition Older Adults**

Ian-Ju Liang, Linda L Lin, Wei-Chi Tseng, Tai-You Lin, Yen-Ting Shen. Institute of Physical Education, Health &Leisure Studies, National Cheng Kung University, TAINAN, Taiwan.

Email: susan4095@gmail.com

(No relationships reported)

**ACSM 64th Annual Meeting**

**Board #12**

9:30 AM - 11:00 AM

**Psychophysiological Responses To Dual-task Postural Control In Older Adults After 3-month Of Cognitive-motor Intervention**

Uros Marusic1, Armin Paravlic2, Mitja Gervzic1, Bostjan Simunic1, Rado Pistic1.1 University of Primorska, Koper, Slovenia. 2University of Primorska (Institute for kinesiology research), Koper, Slovenia.

Email: uros.marusic@upr.si

(No relationships reported)

**Board #13**

9:30 AM - 11:30 AM

**Evaluation Of A Hospital-based Weight Loss Program Involving Exercise, Nutritional, And Behavior Change Modification.**

Jennifer J. Zwetsloot1, Rebecca A. Battista, FACSM1, Kristopher Hartley2, Mason Calhoun2, Chris Demczar2, Alanna Young2. 1Appalachian State University, Boone, NC. 2Appalachian Regional Healthcare Systems, Boone, NC.

Email: zwetslootjj@appstate.edu

(No relationships reported)

**Board #14**

11:00 AM - 12:30 PM

**Use It And Lose It: Fitbit Use, Daily Steps, And Weight Change Among Overweight Adults**

Chelsea A. Larsen, Courtney M. Monroe, Delia S. West. University of South Carolina, Columbia, SC. (Sponsor: Sara Wilcox, FACSM)

(No relationships reported)

**Board #15**

11:00 AM - 12:30 PM

**Lifestyle Enhancement Program: Evaluation of a Community-based Physical Activity Smoking Cessation Program**

Michelle B. Stockton1, Kenneth D. Ward1, Barbara S. McClanahan1, Mark W. Vander Weg2, Mace Cody3, Nancy Wilson3, George Relyea3, Mary C. Read2, Stephanie Connolly2, Karen C. Johnson1.1 University of Memphis, Memphis, TN. 2University of Iowa, Iowa City, IA. 3University of Tennessee, Memphis, TN. 4Methodist Healthcare, Memphis, TN. (Sponsor: Lawrence W. Weiss, FACSM)

Email: mstocktn@memphis.edu

(No relationships reported)

**Board #16**

11:00 AM - 12:30 PM

**Gesture Analysis for Yoga Alignment in Young Adults**

Paula R. Pullen, 305661, Nataly Gonzalez1, William Seffens2. 1University of North Georgia, Oakwood, GA. (Sponsor: Walter R. Thompson, FACSM)

Email: paula.seffens@ung.edu

(No relationships reported)

**Board #17**

11:00 AM - 12:30 PM

**Effects of a Dog Walking Intervention on a University Campus: A Pilot Study**

Melanie Sartore-Baldwin1, Jachyn Baker1, Lacey Schwab1, John Crenshaw1, Maria D’Amico1, Bluhha Das2, Matthew Mahar. FACSM1. 1East Carolina University, Greenville, NC. 2San Diego State University, San Diego, CA.

(No relationships reported)

**Board #18**

11:00 AM - 12:30 PM

**Effects Of Elastic Resistance Band Exercise On Older Women With Nonspecific Chronic Low Back Pain**

Nicole L. Rogers1, Nicole B. Fritz1, Phil Page, FACSM1, Andres Bello2, Pia Altamirano3, Jorge Flandez4, Juan C. Colado4, Michael E. Rogers, FACSM1. 1Wichita State University, Wichita, KS. 2Universidad Austral, Valdivia, Chile. 3Louisiana State University, Baton Rouge, LA. 4University of Valencia, Valencia, Spain. (Sponsor: Michael E. Rogers, FACSM)

(No relationships reported)
**P16 Final Program**

**Board #36** 11:00 AM - 12:30 PM  
**Self-care Posters Serve As A Low-cost Option For Pa Promotion Of Hospital Nurses**  
Marcella Raney, Occidental College, Los Angeles, CA.  
Email: raney@oxy.edu  
(No relationships reported)

**Board #37** 11:00 AM - 12:30 PM  
**Zumba Fitness To Improve Body Composition & Physical Fitness In Inactive Employed Females**  
Yair Barranco-Ruiz1, Susana Paz-Viteri1, Vinicio Sandoval1, Marcela Guerendiain2, Emilio Villa-González3. 1School of Physical Culture, Faculty of Health Sciences, National University Chimborazo, Riobamba, Ecuador; 2School of Medicine, Faculty of Health Sciences, National University Chimborazo, Riobamba, Ecuador.  
Email: ybarranco@unach.edu.ec  
(No relationships reported)

**Board #38** 11:00 AM - 12:30 PM  
**Effects of Momentum-based Dumbbell Training on Quality of Life in Subjects with Mild Cognitive Impairments**  
Jiaojiao Lü, Yu Liu. Shanghai University of Sport, Shanghai, China.  
Email: lj27@163.com  
(No relationships reported)

**Board #39** 11:00 AM - 12:30 PM  
**Momentum-based Dumbbell Training Improved Cognitive Function in Older Adults with Mild Cognitive Impairment**  
Yu Liu, Jiaojiao Lü, Lingyan Huang. Shanghai University of Sport, Shanghai, China.  
Email: yuliu@sus.edu.cn  
(No relationships reported)

**Board #40** 11:00 AM - 12:30 PM  
**Departmental Variations In Wellness And Fitness Characteristics Of Firefighters**  
Charity Lane, 33612, John Mayer, 33612. University of South Florida, Tampa, FL.  
Email: charitylane@health.usf.edu  
(No relationships reported)

**Board #41** 11:00 AM - 12:30 PM  
**VO2max and Hba1c 3 Months After Participating In High-intensity Aerobic Interval Training Among Persons With Type 2 Diabetes.**  
Eva M. Stor1, Sondre Meling2, Lill-Katrin Nyhus1, Jan Helgerud2, Solfriid Brutland-Sand1, Øyvind Ståeren1. 1University College of Southeast Norway, Telemark, Norway; 2Stavanger University Hospital, Stavanger, Norway.  
Email: eva.m.stor@hi.no  
(No relationships reported)

**Board #42** 11:00 AM - 12:30 PM  
**The Relationship Between Gestational Weight Gain, Physical Activity, And Sleep Quality: A Preliminary Report**  
Sara F. Michaliszyn, Jeannie Mincher, Rachel Pohle-Krauza. Youngstown State University, Youngstown, OH.  
Email: sbmichaliszyn@ysu.edu  
(No relationships reported)

**Board #43** 11:00 AM - 12:30 PM  
**Effect of Moderate Versus High Intensity Interval Exercise Training on Vascular Function in Inactive Latin-American Adults: A Randomized Clinical Trial**  
Paula Andrea Hernández-Quiliones1, Alejandra Tordecilla-Sanders1, Esteban Sabogal2, Jorge E. Correa-Bautista1, Antonio Garcia-Hernoso3, Robinson Ramírez-Vélez1. 1Centro de Estudios para la Medicion de la Actividad Física «CEMA», Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogotá D.C, Co, Bogota, Colombia; 2Grupo GICAEDS, Facultad de Cultura Física, Deporte y Recreación, Universidad Santo Tomás, Bogota, Colombia; 3Laboratorio de Ciencias de la Actividad Física, el Deporte y la Salud, Universidad de Santiago de Chile, Santiago, Chile.  
Email: robin640@hotmail.com  
(No relationships reported)

**Board #44** 11:00 AM - 12:30 PM  
**Changes in Endothelial Function Following Fat Sugar Snacking With and Without Exercise Training**  
Catherine L. Jarrett1, Wesley J. Tucker2, Andrew C. D’Lugos1, Jared M. Dickinson1, Siddhartha S. Angadi1, Glenn A. Gaesser, FACSM1. 1Arizona State University, Phoenix, AZ; 2University of Texas at Arlington, Arlington, TX. (Sponsor: Glenn Gaesser, FACSM)  
(No relationships reported)

**Board #45** 11:00 AM - 12:30 PM  
**A Feasibility RCT: Understanding Impact of Community Gardening on Physical Activity and Sedentary Behavior**  
Elizabeth Thomson1, Kaigang Li1, Ricky PimenteF1, Alyssa Beavers2, Kelsey Burr1, Jill Litt1. 1Colorado State University, Fort Collins, CO; 2Children’s Hospital Colorado, Aurora, CO.  
(No relationships reported)

**Board #46** 11:00 AM - 12:30 PM  
**Compensatory Mechanisms to Exercise Induced Energy Deficit**  
Jacquelin Koehne, Bryan Smith. Southern Illinois University Edwardsville, Edwardsville, IL.  
(No relationships reported)

**Board #47** 11:00 AM - 12:30 PM  
**Examination Of Cardiovascular Risk Factors Among University Employees Participating In A Workplace Walking Program**  
Lisa A. Leininger, Lydia Selzer, Joshua Olmeda, Veronica Jones, Kent Adams, FACSM, FACSM.  
(No relationships reported)

**Board #48** 11:00 AM - 12:30 PM  
**Occupational Sitting and Physical Activity among College Employees**  
Sarah E. Wooley1, Kristen Dempsey1, Tracey D. Matthews1, Raldy Laguilles1, Jasmin Hutchinson3, David A. Rowe, FACSM1, Samuel A. Headley, FACSM1. 1Springfield College, Springfield, MA; 2University of Strathclyde, Glasgow, United Kingdom. (Sponsor: Samuel A. Headley, FACSM)  
(No relationships reported)

**Board #49** 11:00 AM - 12:30 PM  
**The Influence Of Physical Activities At The Workplace On Private Medical Center Employees**  
Daniel S. Moran, FACSM1, Achmed Naser2, Karen Bronner3. 1Ariel University, Washington College of Education, Ariel, Israel; 2Ariel University, Ariel, Israel; 3Assuta Medical Center, Tel Aviv, Israel.  
(No relationships reported)
Board #50  11:00 AM - 12:30 PM
Everyday Pedelee Use and its Effect on Meeting Physical Activity Guidelines
Markus Heim, Johanna Boyen, Hedwig Theda Stemter, Armin Finkel, Gudrun Pritte, Monnne Käck, Uwe Teglbjr. Hannover Medical School, Hannover, Germany.
Email: hein.markus@mh-hannover.de
(No relationships reported)

Board #51  11:00 AM - 12:30 PM
The Investigation On Health Status And Exercise Habit Of Chengdu Civil Servant
Xiaorui Zhang1, Yushi biu1, Xihui Liu2, Hua Shen1, quansheng su1.
1Chengdu Sport Institute, Chengdu, China. 2Sichuan Orthopedic Hospital, Chengdu, China.
Email: 814595664@qq.com
(No relationships reported)

Board #52  11:00 AM - 12:30 PM
Feasibility Of A Student-led University Wellness Initiative
Nathan W. Saunders1, Laura M. Marioneaux2, Christina A. Gonzalez1. 1University of Mount Union, Alliance, OH. 2Longwood University, Farmville, VA.
(Sponsor: Steven T. Devor, FACSM)
Email: saundersw@mountunion.edu
(No relationships reported)

Board #53  11:00 AM - 12:30 PM
Testing Intentions: Evaluating The Effectiveness Of Implementation Intentions In A Pedometer-Based Worksite Intervention
Anna I. Rinaldi-Miles1, Bhibha Das2, Rumit Singh3. 1East Carolina University, Greenville, NC. 2Illinois State University, Normal, IL. 3East Carolina University, Greenville, NC.
Email: annimiles@ilstu.edu
(No relationships reported)

Board #54  11:00 AM - 12:30 PM
Lifestyle and Health Habits Among Canadian University Community
Alexandre Busque, Pierre-Luc Yao, Paule Miquelon, Marie-Claude Rivard, Emilie Lachance. Université du Québec à Trois-Rivières, Trois-Rivières, QC, Canada.
Email: alexandre.busque@uqtr.ca
(No relationships reported)

Board #55  11:00 AM - 12:30 PM
Fitness Perceptions And Practices Of Medical Students From A Patient-Based-Learning Curriculum (PBL)
Stephen H. Luebbert, Chrissis L. McClellan, Fred Murdock. University of Missouri-Columbia School of Medicine, Columbia, MO.
Email: shlw34@health.missouri.edu
(No relationships reported)

Board #56  11:00 AM - 12:30 PM
Incorporating Spirituality and Role Models into Physical Activity Programs for Black Women: A Qualitative Inquiry
Rodney P. Joseph, Colleen Keller, Steven P. Hooker, FACSM, Barbara E. Ainsworth, FACSM, Arizona State University, Phoenix, AZ. (Sponsor: Barbara Ainsworth, FACSM)
Email: rodney.joseph@asu.edu
(No relationships reported)

Board #57  11:00 AM - 12:30 PM
Pilates Exercise Improves Balance in Middle-Aged Chinese Women
Yi Dai1, Hengjing Zou1, Guanyi Lai1. 1Chengdu Sport University, Chengdu, China. 2Chengdu First People’ s Hospital, Chengdu, China.
(Sponsor: Tongjian You, FACSM)
Email: 763335348@qq.com
(No relationships reported)
### Wednesday, May 31, 2017

| Board #64 | 9:30 AM - 11:00 AM | Inter-rater And Test-retest Reliability Of The Y-balance Test In Healthy Women 50-80 Years Old | Jacob Shepherd, Autumn Oostindie, Jared Locke, Srikant Vallabhajosula, Deborah Stetts, Jane Freund. Elton University, Elton, NC. (Sponsor: Dr. Stephen Bailey, FACSM) Email: jshepherd3@elon.edu (No relationships reported) |
| Board #65 | 9:30 AM - 11:00 AM | Purine Metabolites and HGPRT Activity in Male Sex-Power vs Endurance Masters Athletes Aged 20-90 Years | Jaczek Zielinski1, Ewa Slominska2, Magdalena Krol-Zielinska1, Zbigniew Krasinski1, Krzysztof Kusy1. 1 Poznan University of Physical Education, Poznan, Poland. 2 Medical University of Gdansk, Gdansk, Poland. 3 Poznan University of Medical Sciences, Poznan, Poland. Email: jaczekzielinski@wp.pl (No relationships reported) |
| Board #66 | 9:30 AM - 11:00 AM | Improving Power Output in Older Adults Utilizing Plyometrics in an AlterG Treadmill | Tyler J. Dobbbs, Shawn R. Simonson, Scott A. Conger. Boise State University, Boise, ID. (Sponsor: Dawn P. Coo, FACSM) Email: tylerdobbbs@boise.edu (No relationships reported) |
| Board #67 | 9:30 AM - 11:00 AM | Strength Decline Of Sedentary Adult Men In Different Age Groups | Andre de Camargo Smolarek1, Luis P. Mascarenhas1, Steven R. McNamara1, João C. B. Alves2, Charlylson W. Cordeiro4, Ilma C. Honorato5, Alan C. Utter, FACSM2. 1 University of Parana, Curitiba, Brazil. 2 Appalachian State University, Boone, NC. 3 UFPR, Curitiba, Brazil. 4 Tecnico P. Souza-Junior. 5 UNICENTRO, Imbituva, Brazil. Email: andreccsk@gmail.com (No relationships reported) |
| Board #68 | 9:30 AM - 11:00 AM | Comparisons of Fat Free Mass and Fat Mass between Active and Inactive Older Women | Maressa P. Krause, Rodrigo Baumann Velho, Sergio Gregorio da Silva. Universidade Tecnologica Federal do Parana, Curitiba-PR, Brazil. Email: maressakrause@hotmail.com (No relationships reported) |
| Board #69 | 9:30 AM - 11:00 AM | Dynamic Postural Control by Body Mass Index and Walking Speed in Korean Elderly | Eun Jin Hwang, Somi Yun, Dahye Lim, Dae Taeck Lee. Kookmin University, Seoul, Korea, Republic of. (No relationships reported) |
| Board #70 | 9:30 AM - 11:00 AM | Maximal Velocity Adaptations During Unilateral Resistance Training In Older Adults | Alex A. Olmos1, Garrett G. Hester1, Zachary K. Pope2, Ryan J. Colquhoun1, Mitchel A. Magnini2, Alejandra Barrera-Curiel1, Carlos A. Estrada1, Jason M. DeFreitas2. 1 Kennesaw State University, Kennesaw, GA. 2 Oklahoma State University, Stillwater, OK. Email: olmosalex75@gmail.com (No relationships reported) |
| Board #71 | 9:30 AM - 11:00 AM | The Self-Reported Exercise Habits of Older Adult Women and the Associated Effects on Physical Fitness | Robert C. Mason1, Michael A. Horvat1, Joe Nocera1. 1 Delaware State University, Dover, DE. 2 University of Georgia, Athens, GA. 3 Atlanta VA Medical Center, Atlanta, GA. (Sponsor: Erica Taylor, FACSM) Email: masonr@dues.edu (No relationships reported) |
Board #87  9:30 AM - 11:00 AM
Self-Reported Screen Time is Independently Associated with Cardiometabolic Disease Risk Factors in Young Adults
Kathleen R. Connor, 83843, Katrina Taylor, Devin Drummer, Megan C. Nelson, Chantal Vella, FACSM, University of Idaho, Moscow, ID. 1University of Washington, Seattle, WA. 2Washington State University, Pullman, WA. (No relationships reported)

Board #88  9:30 AM - 11:00 AM
The Relationship Between CAD Risk Factors And Carotid Intima-media Thickness (cimt) In Children
Daniel J. White, University of New England, Biddeford, ME. (No relationships reported)

Board #89  9:30 AM - 11:00 AM
The Effect of Moderate Resistance Exercise on Arterial Stiffness With and Without the Valsalva Maneuver
Nicole M. Fortunato, Christa Winter, Elizabeth O'Neill, Samuel A.E. Headley, FACSM, Springfield College, Springfield, MA. (Sponsor: Samuel Headley, FACSM) (No relationships reported)

Board #90  9:30 AM - 11:00 AM
Patterning Of Physiological And Perceptual Responses To Exercise: Effect Of Sympathetic Blockade
Kade Davison, Braden L. Mitchell, Gaynor Parfitt, Simon Weddige, Roger G. Eston, University of South Australia, Adelaide, Australia. (No relationships reported)

Board #91  9:30 AM - 11:00 AM
Exercise-induced Change in Metabolites and Associations with Cardiometabolic Risk Factors
Andrea M. Brennan, Mark Benson, Jordan Morningstar, Andrea M. Brennan, Mark Benson, Jordan Morningstar, Robert E. Gersten, Robert Ross, FACSM, Queen’s University, Kingston, ON, Canada. 2Brompton Hospital, London, UK. 3University of Toronto, Toronto, ON, Canada. 4University of Kentucky, Lexington, KY. 5University of Virginia, Charlottesville, VA. 6Brown University, Providence, RI. 7University of British Columbia, Vancouver, BC. 8Queen’s University, Kingston, ON, Canada. 9Boston University, Boston, MA. (Sponsor: Peter Kokkinos, FACSM) (No relationships reported)

Board #92  9:30 AM - 11:00 AM
Time Course for Blood Pressure Changes with Aerobic Exercise in U.S. Veterans
Shakeelah Sutton, Veterans Affairs Medical Center, Washington, DC. (Sponsor: Peter Kokkinos, FACSM) (No relationships reported)

Board #93  9:30 AM - 11:00 AM
The Relationship Between Initiation of Cardiac Rehabilitation and Readmission Rates for Patients with Metabolic Syndrome
Lee Anne Siegmund, Mark McClelland, James Bena, Cleveland Clinic, Cleveland, OH. (No relationships reported)
WEDNESDAY, MAY 31, 2017

ACSM 64th Annual Meeting

Board #101 11:00 AM - 12:30 PM
Cardiovascular, Perceptual and Metabolic Demands Associated with Low-intensity Blood Flow Restriction Cycling
Hannah J. Thomas, Female, Brendan R. Scott, Male, Jeremiah J. Peiffer, Male. Murdoch University, Murdoch, Australia. (Sponsor: Dr. Tim Fairchild, FACSM)
Email: hannahthomas755@hotmail.com
(No relationships reported)

Board #102 11:00 AM - 12:30 PM
Prior Acrobic Exercise Attenuates Prolonged Sitting-induced Leg Endothelial Dysfunction
Takuma Morishima, Robert M. Restaino, Lauren K. Walsh, Jill A. Kanaley, FACSM, Jaume Padilla. University of Missouri, Columbia, MO. (Sponsor: Jill Kanaley, FACSM)
(No relationships reported)

Board #103 11:00 AM - 12:30 PM
Normobaric Intermittent Hypoxia Increases Middle Cerebral Arterial Blood Flow Velocity With No Systemic Hypertension
Xiangrong Shi, FACSM, Xiaoli Liu, Diqun Xu, Sarah Ross, James Hall, Sid O’Bryant. UNT Health Science Center; Fort Worth, TX. (Sponsor: Xiangrong Shi, FACSM)
Email: xiaoli.liu@unthsc.edu
(No relationships reported)

Board #104 11:00 AM - 12:30 PM
Skin Perfusion and Vascular Conductance during Steady State Exercise are Unaffected by Aging or Heart Disease
Graeme Carrick-Ranson, Megan Reyden, Paul B. Nolan, Stacey A. Reading. University of Auckland, Auckland, New Zealand.
(No relationships reported)

Board #105 11:00 AM - 12:30 PM
Hemodynamic Changes Following High-Velocity Circuit Resistance or Treadmill Training in Adults with Cardiometabolic Risk Factors
Email: kxr181@miami.edu
(No relationships reported)

Board #106 11:00 AM - 12:30 PM
Impact of Short-term Training Camp on Aortic Pressure in Collegiate Endurance Runners
Tsusbasa Tomoto1, Jun Sugawara2, Ai Hirasawa2, Tomoko Imai2, Shigehiko Ogoh, FACSM.1 National Institute of Advance Industrial Science and Technology, Tsukuba, Japan.2 Kyorin University, Mitaka, Japan.3 Aichi Institute of Technology, Toyota, Japan.4 Ryo University, Kawagoe, Japan. (Sponsor: Shigehiko Ogoh, FACSM)
(No relationships reported)

Board #107 11:00 AM - 12:30 PM
Time Course Of Acute Exercise-induced Impairment Of Endothelial Dependent Vasorelaxation
M. Brennan Harris, Morgan C. Backnor, T. Hunter Embry, Rachel G. Dennyen, Justin P. Canakis, Christina L. Kontzias, Yuntian Guan, Katie M. Necochea. College of William & Mary, Williamsburg, VA. (Sponsor: Joseph W. Starnes, FACSM)
Email: mbharr@wm.edu
(No relationships reported)

Board #95 9:30 AM - 11:00 AM
Blood Pressure Reductions Following A 12-week Isometric Training Program: Lab-based Vs. Home-based Approach
Email: bgordo18@uncc.edu
(No relationships reported)

Board #96 9:00 AM - 11:00 AM
Extremities Enhances The Vascular Endothelial Function Acute Electrical Muscle Stimulation Of The Lower Extremities Enhances The Vascular Endothelial Function
J Grant Mouser1, Gilberto C. Laurentino2, Scott J. Dankel1, Samuel J. Ramsay, Rachel C. Veasey, Glyn Howatson, FACSM.1 Virginia Commonwealth University, Richmond, VA.2 State Exercise are Unaffected by Aging or Heart Disease
Email: xiaoli.liu@unthsc.edu
(No relationships reported)

Board #97 9:00 AM - 11:00 AM
Prior Aerobic Exercise Attenuates Prolonged Sitting-induced Leg Endothelial Dysfunction
Takuma Morishima, Robert M. Restaino, Lauren K. Walsh, Jill A. Kanaley, FACSM, Jaume Padilla. University of Missouri, Columbia, MO. (Sponsor: Jill Kanaley, FACSM)
(No relationships reported)

Board #98 9:00 AM - 11:00 AM
The Immediate Blood Pressure Lowering Effects of Acute Blood Flow Restriction
Alyssa Jones1, Lauren ML Corso1, Hayley V. MacDonald2, Blair T. Johnson1, Jill Livingston1, Linda S. Pescatello, FACSM.1 1University of Connecticut, Storrs, CT. The University of Alabama, Tuscaloosa, AL. (Sponsor: Dr. Linda S. Pescatello, FACSM)
(No relationships reported)

Board #99 9:00 AM - 11:00 AM
Board #100 9:00 AM - 11:00 AM
Forearm Blood Flow Regulation Following Maximal Cycling
Alyssa Jones1, Lauren ML Corso1, Hayley V. MacDonald2, Blair T. Johnson1, Jill Livingston1, Linda S. Pescatello, FACSM.1 1University of Connecticut, Storrs, CT. The University of Alabama, Tuscaloosa, AL. (Sponsor: Dr. Linda S. Pescatello, FACSM)
(No relationships reported)

Board #101 9:00 AM - 11:00 AM
The Immediate Blood Pressure Lowering Effects of Acute Blood Flow Restriction
Alyssa Jones1, Lauren ML Corso1, Hayley V. MacDonald2, Blair T. Johnson1, Jill Livingston1, Linda S. Pescatello, FACSM.1 1University of Connecticut, Storrs, CT. The University of Alabama, Tuscaloosa, AL. (Sponsor: Dr. Linda S. Pescatello, FACSM)
(No relationships reported)

Board #102 9:00 AM - 11:00 AM
Board #103 9:00 AM - 11:00 AM
Forearm Blood Flow Regulation Following Maximal Cycling
Alyssa Jones1, Lauren ML Corso1, Hayley V. MacDonald2, Blair T. Johnson1, Jill Livingston1, Linda S. Pescatello, FACSM.1 1University of Connecticut, Storrs, CT. The University of Alabama, Tuscaloosa, AL. (Sponsor: Dr. Linda S. Pescatello, FACSM)
(No relationships reported)

Board #104 9:00 AM - 11:00 AM
Board #105 9:00 AM - 11:00 AM
Forearm Blood Flow Regulation Following Maximal Cycling
Alyssa Jones1, Lauren ML Corso1, Hayley V. MacDonald2, Blair T. Johnson1, Jill Livingston1, Linda S. Pescatello, FACSM.1 1University of Connecticut, Storrs, CT. The University of Alabama, Tuscaloosa, AL. (Sponsor: Dr. Linda S. Pescatello, FACSM)
(No relationships reported)

Board #106 9:00 AM - 11:00 AM
Board #107 9:00 AM - 11:00 AM
Forearm Blood Flow Regulation Following Maximal Cycling
Alyssa Jones1, Lauren ML Corso1, Hayley V. MacDonald2, Blair T. Johnson1, Jill Livingston1, Linda S. Pescatello, FACSM.1 1University of Connecticut, Storrs, CT. The University of Alabama, Tuscaloosa, AL. (Sponsor: Dr. Linda S. Pescatello, FACSM)
(No relationships reported)
A-45  Free Communication/Poster - Chronic Disease and Disability

Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

Board #126  9:30 AM - 11:00 AM
Balance Confidence Predicts Fall Frequency but not Physical Activity in Individuals with Parkinson’s Disease.

Amanda Penko. Cleveland Clinic, Cleveland, OH. (Sponsor: Ellen Glickman, FACSM)
Email: penkoal@gmail.com
(No relationships reported)

Board #127  9:30 AM - 11:00 AM
Effectiveness Of Multi-component Exercise On Physiological Function Among Older Adults With Diabetes And Hypertension

Nuo Yi1, Kaili Meng2, Yong “Tai” Wang, FACSM3, Xiaoyu Guo2, Xiangen Yi1, Xue Gao2. 1VA Ann Arbor Health System, Ann Arbor, MI. 2University of Seoul, Seoul, Korea, Republic of. 3The Chinese University of Hong Kong. (Sponsor: Yong “Tai” Wang, FACSM)
Email: lirutracylnk.cuhk.edu.hk
(No relationships reported)

Board #128  9:30 AM - 11:00 AM
Muscle Weakness and Diabetes Jointly Exacerbate the Rate of Functional Disability among Older Mexican Americans

Ryan P. McGrath1, Brenda M. Vincent2, Brad P. Dieter3, Kate A. Duchowny4, Kyriakos S. Markides5, Soham Al Snih5, Mark D. Peterson, FACSM, 1University of Michigan Medical School, Ann Arbor, MI. 2VA Ann Arbor Health System, Ann Arbor, MI. 3East Stroudsburg University, East Stroudsburg, PA. 4Stanford University, Stanford, CA. 5University of Texas at Tyler, Tyler, TX. (Sponsor: Ellen Glickman, FACSM)
Email: kmagrayt@moed.umich.edu
(No relationships reported)

Board #129  9:30 AM - 11:00 AM
Prevalence Of Leisure Time Physical Activity In Adults With Seizure Disorders: 2013 And 2015 Nhis

Adrian J. Boltz, Brandi S. Rariden, Bethany D. Williams, Tammie M. Johnson, Michael R. Richardson, James R. Churilla, FACSM. University of North Florida, Jacksonville, FL. (Sponsor: James R. Churilla, FACSM)
Email: aad2127@uc.edu
(No relationships reported)

Board #130  9:30 AM - 11:00 AM
Patterns of Sedentary Behavior in The First Month After Acute Coronary Syndrome

Andrea T. Duran1, Carol E. Garber, FACSM1, Joseph E. Schwartz2, Keith M. Diaz2. 1Teachers College, Columbia University, New York, NY. 2Columbia University Medical Center, New York, NY. (Sponsor: Carol Ewing Garber, FACSM)
Email: andt2127@tc.columbia.edu
(No relationships reported)
American College of Sports Medicine

Board #138 9:30 AM - 11:00 AM
BMI Across Age-groups In Adults With Down Syndrome And Adults With Intellectual Disability
Stanatis Agiovlasitis, FACSM¹, Jooyeon Jin², Joonkoo Yun³. ¹Mississippi State University, Mississippi State, MS. ²University of Seoul, Seoul, Korea, Republic of. ³Oregon State University, Corvallis, OR.
Email: sagiovlasitis@colled.msstate.edu
(No relationships reported)

Board #139 9:30 AM - 11:00 AM
Effect Of A Physical Education Program On Motor Performance In Down’s Syndrome Children By Mabc2
Email: iperez@unach.edu.ec
(No relationships reported)

Board #140 9:30 AM - 11:00 AM
Physical Activity and Shoulder Muscle Strength in Spinal Cord Injured Individuals
Renata M. Willig¹, Lucimére Bohl¹, Amanda Santos¹, Ivo Garcia², Ana Silva¹, Marisa Sousa¹, Rui Costa¹, Rui Corredera¹, Joana Carvalho¹. ¹Faculty of Sport, University of Porto, Porto, Portugal. ²Advanced Politecnich and University Cooperative (CESPU), Vila Nova de Famalicão, Portugal. ³School of Health Sciences, University of Aveiro, Aveiro, Portugal.
Email: rewilgl@gmail.com
(No relationships reported)

Board #141 9:30 AM - 11:00 AM
Workplace Wellness Exercises For Individuals Who Use Wheelchairs
Stephanie L. Silveira¹, Dustin Dew², Kelly Bonner². ¹University of Houston, Houston, TX. ²UAB/Lakeshore Research Collaborative, Birmingham, AL.
Email: ssilveira@central.uah.edu
(No relationships reported)

Board #142 9:30 AM - 11:00 AM
Using a Self Regulation Physical Activity Intervention to Improve Physical Function
Kimberlee A. Gretebeck, Wan-Chin Kuo, Carly E. Babino, Katherine M. Mead, Cheyenne Mangan, Emily Hammer, Randall J. Gretebeck, FACSM. University of Wisconsin-Madison, Madison, WI.
Email: kgretebeck@wisc.edu
(No relationships reported)

Board #143 9:30 AM - 11:00 AM
Determinants of Leisure-Time Physical Activity Participation in University Students with Physical Disabilities: A Multi-University Study
Jennifer Dysthe⁴, Gioella Chaparro⁵, Ian Rice⁶. ⁴Hamline University, St. Paul, MN. ⁵University of Illinois, Urbana-Champaign, Urbana, IL. ⁶University of North Carolina Wilmington, Wilmington, NC.
Email: katelynanne.dato@unw.edu
(No relationships reported)

Board #144 9:30 AM - 11:00 AM
Cognitive Benefits Of A Dance Movement Therapy Program In Adults With Intellectual Disabilities
Miriam Guerra-Balice¹, Silvia Barnet-López², Sara Signo-Migue³, Susan Pérez-Testor², Olga Bruña¹, Luis Solano¹, Guillermo R. Oviejo¹. ¹FPCEE Blanquerna (University Ramon Llull), Barcelona, Spain. ²FPCEE Blanquerna, University Ramon Llull, Barcelona, Spain.
Email: miriameliasag@blanquerna.url.edu
(No relationships reported)

Board #145 9:30 AM - 11:00 AM
Validity Of The Maps Score As A Functional Measure In Adults With Incomplete Spinal Cord Injury
Hoonfic Kim, Don W. Morgan, FACSM, Sandra L. Stevens, John M. Coons, Minsoo Kang, FACSM. Middle Tennessee State University, Murfreesboro, TN. (Sponsor: Minsoo Kang, FACSM)
Email: hckim1@mtmail.mtsu.edu
(No relationships reported)

Board #146 9:30 AM - 11:00 AM
Sex Differences in Resting Heart Rate and Heart Rate Recovery in Low Back Pain Subjects
Alexyz Milan, Marlon L. Wong, Jessica Bolanos, Teresa Glynn, Neva Kirk-Sanchez, Magno F. Formiga, Lawrence P. Cahalin. University of Miami, Miami, FL. (Sponsor: Dr. Thomas Best, FACSM)
(No relationships reported)

Board #147 9:30 AM - 11:00 AM
The Success Rate of iCan Bike Participants with Multiple Diagnoses
Kelly D. Barns, 63701¹, Andrea L. Patrick², Nicolas J. Wilkins³, Jessica N. Stiger⁴, Thomas J. Pujol, FACSM⁵, Jason D. Wagganer⁶. ¹Southeast Missouri State University, Cape Girardeau, MO. ²Can Shine, Fairfax, VA. ³Missouri Baptist University, St. Louis, MO. (Sponsor: Thomas J. Pujol, FACSM)
Email: kdarns1@semo.edu
(No relationships reported)

Board #148 9:30 AM - 11:00 AM
Exercise Results in Physiological Improvements in Individuals Living with Disabilities
Lisa Sprod, Brandi Crowe, Jennifer Bell, Dan Johnson. University of North Carolina Wilmington, Wilmington, NC.
Email: sprod@uncw.edu
(No relationships reported)

Board #149 9:30 AM - 11:00 AM
Sedentary Patterns In People with Intellectual Disability
Guillemro R. Oviejo¹, Casimiro Javierre², Jesús Fortuño-Godes³, María Carbó-Carreté⁴, Myriam Guerra-Balice⁵. ¹FPCEE Blanquerna - University Ramon Llull, Barcelona, Spain. ²University of Barcelona, Barcelona, Spain.
Email: groviedo77@gmail.com
(No relationships reported)

Board #150 9:30 AM - 11:00 AM
Physical Conditioning Program To Improve Isometric Strength And Body Composition In People With Down Syndrome.
Melina Ortiz-Ortiz, Karla I. Terrazas-Ordonica, Luis E. Cano-Rodriguez, Luis M. Gómez-Miranda, Juan J. Calleja-Núñez. Universidad Autónoma de Baja California, Tijuana, Mexico.
Email: melina.ortiz@saae.edu.mx
(No relationships reported)

Board #151 9:30 AM - 11:00 AM
Ballroom Dance Improves Heart Rate Variability and Depression in Persons with Multiple Sclerosis
Katelyn Anne Dato-on¹, Jimin Suh², Stephanie Raab³, Kenneth Barnting⁴, Sheri L. Banyan⁴, Alexander V. Ng, FACSM⁵. ¹Marquette University, Milwaukee, WI. ²Concordia University, Mequon, WI. (Sponsor: Dr. Daniel Banyan, FACSM)
Email: katelynname dato-on@marquette.edu
(No relationships reported)

Board #152 9:30 AM - 11:00 AM
The Effect of Step Count Increase on Role Limitations for People Living with HIV/AIDS
Olivia Estill¹, Camerra C. Miller¹, Gregory A. Hand, FACSFN, Jason R. Jaggers¹. ¹University of Louisville, Louisville, KY. ²West Virginia University, Morgantown, WV. (Sponsor: Dr. Ann Swank, FACSM)
(No relationships reported)
A-46  Free Communication/Poster - Ergonomic Aids I

Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

Board #155  11:00 AM - 12:30 PM
10-Week Guanidinoacetic Acid Supplementation Affects Inflammatory Markers in Healthy Men and Women
Sergej M. Ostojić, Patrik Drid, Tatjana Trivic, Valdemar Stajer. University of Novi Sad, Novi Sad, Serbia. Email: sergej.ostojic@chesu.rs (No relationships reported)

Board #156  11:00 AM - 12:30 PM
Sprint Cycling Performance Improvement Post-Creatine Supplementation is Associated with Increase in Lean Body Mass
Daniel L. Crisafulli, Harsh H. Buddhadev, Lorrie R. Brilla, FACSM, Gordon R. Chalmers, David N. Supnak, Jun G. San Juan. Western Washington University, Bellingham, WA. (Sponsor: L. R. Brilla) Email: crisafdl@wwu.edu Reported Relationships: D.L. Crisafulli: Contracted Research - Including Principle Investigator; Albion Laboratories, Inc., Clearfield, UT.

Board #157  11:00 AM - 12:30 PM
The Effect of Bacillus Coagulans and HMB On Muscle Integrity and Inflammation During Military Training
Yifach Gepner1, Jay R. Hoffman, FACSM, Elad Shemesh2, Jeffrey R. Stout, FACSM, David D. Church1, Alyssa N. Varanoske1, Hila Zeligca1, Ilan Shelef3, Hagai Frankel2, Ishay Ostfeld2. 1Institute of Exercise Physiology and Wellness, Sport and Exercise Science; University of Central Flo, Orlando, FL. 2Department of Public Health, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer-Sheva, Israel. 3Soroka Medical Center, Beer-sheva, Israel. (Sponsor: Jay R. Hoffman, FACSM) Email: yifach.gepner@ucf.edu (No relationships reported)

Board #158  11:00 AM - 12:30 PM
The Physiological And Psychological Effects Of A Pre Exercise Amino Acid Supplement
Krystle K. Sanders1, Kayla Bernos2, Matthew Frau1, Yi-Hung Liao3, Jeffrey R. Bernard3. 1California State University- Stanislaus, Turlock, CA. 2Saint Mary’s College of California, Moraga, CA. 3National Taipei University of Nursing and Health Sciences, Taipei, Taiwan. (No relationships reported)

Board #159  11:00 AM - 12:30 PM
Effects Of Branched-chain Amino Acids On Resting Metabolic Rate, Body Composition, And Satiety In Females
Erica J. Roelofs1, Abbie E. Smith-Ryan, FACSM, 2Meredith College, Raleigh, NC. 3University of North Carolina, Chapel Hill, NC. (Sponsor: Abbie E. Smith-Ryan, FACSM) Email: ejroelofs@meredith.edu (No relationships reported)

Board #153  9:30 AM - 11:00 AM
Exploring The Impact Of A Pilot Physical Activity Intervention On Youths With Type 1 Diabetes.
Fiona Mitchell, Alison Kirk, Kenneth Robertson, Louise Willie, John J. Reilly. University of Strathclyde, Glasgow, United Kingdom. (Sponsor: Dave Rowe, FACSM) Email: fiona.c.mitchell@strath.ac.uk (No relationships reported)

Board #154  9:30 AM - 11:00 AM
Increases In Physical Activity Improves HDL Cholesterol In People Living With HIV/AIDS Taking Antiretroviral Therapy
Camerra C. Miller1, Olivia Estill1, Gregory A. Hand, FACSM, R. R. Jaggers1. 1Meredith College, Raleigh, NC. (Sponsor: Abbie E. Smith-Ryan, FACSM) Email: ejroelofs@meredith.edu (No relationships reported)
A-47 Free Communication/Poster - Genetics

Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

352 Board #173
9:30 AM - 11:00 AM
CYP19A1 Gene Polymorphism of aromatase is Associated with Arterial Stiffness in Healthy Japanese People
Koichiro Hayashi1, Motosuyuki Iemitsu1, Haruka Murakami2, Kiyoshi Sanada3, Hiroshi Kawano4, Yoko Gando5, Noriko Tanaka5, Ryoko Kawakami5, Motohiko Miyachi5. 1Kokugakuen University, Yokohama, Japan. 2Ritsumeikan University, Kusatsu, Japan. 3National Institute of Health and Nutrition, Tokyo, Japan. 4Kokushikan University, Tokyo, Japan. 5Nagoya University, Nagoya, Japan. 6Waseda University, Tokyo, Japan. Email: k-hayashi@kokugakuen.ac.jp (No relationships reported)

353 Board #174
9:30 AM - 11:00 AM
Genes’ Polymorphisms Related To Athletic Physical Performance: A Descriptive Study In Estonian Elite Athletes
Agnes Mägi1, Eve Unt1, Ele Prans1, Suvee Kõks1. 1Tartu University Hospital, Tartu, Estonia. 2University of Tartu, Tartu, Estonia. Email: agnes.magi@klinikum.ee (No relationships reported)

354 Board #175
9:30 AM - 11:00 AM
Novel Genes Associated with Elite Athlete Performance Via Inflammatory Pathways
Kylene Boka, Helen Piontkivska, Kennith Sparks, Scott Habowski, Ellen Glickman, FACSM. Kent State University, Kent, OH. (Sponsor: Dr. Ellen Glickman, FACSM) (No relationships reported)

355 Board #176
9:30 AM - 11:00 AM
Genome-wide Association For Exercise Tolerance In The TIGER Study
Molly S. Bray1, Matthew P. Herring2, Rodney K. Dishman, FACSM, Daniel P. O’Connor, FACSM,3 Andrew S. Jackson, FACSM, Anna I. Vazquez1, Ana I. Vazquez1. 1University of Limerick, Limerick, Ireland. 2University of Georgia, Athens, GA. 3University of Houston, Houston, TX. 4Texas A&M University, College Station, TX. 5University of Tartu, Tartu, Estonia. 6Kokusai University, Tokyo, Japan. 7Waseda University, Tokyo, Japan. Email: mbray@austin.utexas.edu (No relationships reported)

356 Board #177
9:30 AM - 11:00 AM
Osteoarthritis Extracellular RNA Biomarkers in Synovial Fluid
Anthony J. Griswold, Jose Perez, Karen Nuytenmans, Thomas Strong, Liyong Wang, Hayley Ennis, Marvin Smith, Jeffery Vance, Margaret A. Pericak-Vance, Lee D. Kaplan. University of Miami, Miami, FL. (Sponsor: Thomas Best, FACSM) (No relationships reported)

357 Board #178
9:30 AM - 11:00 AM
Acute Exercise Induced Changes of Gene-Specific DNA Methylation in Natural Killer Cells
Christina Koliamitra1, Wilhelm Bloch1, Alexander Schenk1, Walter Pulverer2, Philipp Zimmer2. 1Cardiovascular Research and Sports Medicine, Cologne, Germany. 2Austrian Institute for Technology, Vienna, Austria. (Sponsor: Prof. Dr. Steinacker Jürgen Michael, FACSM) Email: c.koliamitra@dshs-koeln.de (No relationships reported)

358 Board #179
9:30 AM - 11:00 AM
Exercise Induced Natural Killer (NK) Cell Genomic Response in Pediatric Acute Lymphoblastic Leukemia (ALL) Survivors
Martin Perlstejn1, Leonard S. Sender1, Fadia Haddad1, Dan M. Cooper1, Ronen Bar-Yoseph1, Shlomit Radom-Aizik1. 1University of California Irvine, Irvine, CA. 2CHOC Children’s Hospital, Orange, CA. (No relationships reported)

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A-48 Free Communication/Poster - Hypoxic Exercise
Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

359 Board #180 9:30 AM - 11:00 AM
FGF21 is Produced By Active Skeletal Muscle during Intense Exercise in Humans: Influence Of PO2
Marcos Martin-Rincón1, Alberto Pérez-López2, Marco Azzinnari1, Mercedes Said-Quintana1, Alfredo Santana1, David Morales-Alano1, Cecilia Dorado-García1, Jose A L Calbet1. 1University of Las Palmas de Gran Canaria. Instituto Universitario de Investigaciones Biomedicas (IUIBS), Las Palmas de Gran Canaria, Spain. 2Faculty of Medicine and Health Sciences. University of Alcalá. CIBER-BBN, Madrid, Spain.
Email: marcos.martinrincon@gmail.com
(No relationships reported)

360 Board #181 9:30 AM - 11:00 AM
The Effect Of Normobaric Hypoxic Endurance Training On Forearm Muscle Blood Flow
Simon M. Fryer1, Keeron J. Stone1, Tabitha G. Dickson1, Andrew Wilhelmsen1, Daniel S. Cowen1, James Faulkner2, Danielle Lambrick3, Lee Stoner4. 1University of Montana, Missoula, MT. 2University of Winchester, Winchester, United Kingdom. 3University of Southampton, Southampton, United Kingdom. 4University of North Carolina at Chapel Hill, Raleigh, United Kingdom.
Email: sfyerr@glos.ac.uk
(No relationships reported)

361 Board #182 9:30 AM - 11:00 AM
The Effect of Hypoxia on PGC-1α and Hypobaric Hypoxic Exercise Recovery
Roksana Zak1, Robert Shute2, Dustin Slivka2, FACSM. University of Nebraska-Omaha, Omaha, NE. (Sponsor: Dustin Slivka, FACSM)
(No relationships reported)

362 Board #183 9:30 AM - 11:00 AM
Exercise Induced Oxidative Stress During Normobaric And Hypobaric Hypoxic Exercise Recovery
John C. Quindry1, FACSM1, Roksana Zak2, Robert Shute1, Tiffany Quindry1, John Cuddy1, Walter Hailes1, Dustin R. Slivka2, FACSM2, Brent Ruby2, FACSM2. 1University of Montana, Missoula, MT. 2University of Nebraska - Omaha, Omaha, NE. 3University of Nebraska - Omaha, Omaha, NE. 4University of Nebraska - Omaha, Omaha, NE.
Email: John.quindry1@msu.montana.edu
(No relationships reported)

363 Board #184 9:30 AM - 11:00 AM
Hypoxic Training Promotes Apelin Expression In Skeletal Muscles Of High Fat-Diетed Obese Mice
ying zhang. Beijing Sport University, Beijing, China.
Email: zhy9256@126.com
(No relationships reported)

364 Board #185 9:30 AM - 11:00 AM
Metabolomic Analysis Of Skeletal Muscle In Horses Trained In Hypoxia.
Hajime Ohmura1, Kazutaka Mukai1, Yuii Takahashi1, Toshiyuki Takahashi1, James H. Jones2. 1Japan Racing Association, Shinotomake-ji, Japan. 2University of California, Davis, Davis, CA.
(No relationships reported)

A-49 Free Communication/Poster - Military Physiology
Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

365 Board #186 9:30 AM - 11:00 AM
Physical Discomfort And Relationship To Performance During A 12-mile March In US Army Soldiers
Stephen A. Fouli1, Jan E. Redmond2, Peter N. Frykman1, Edward J. Zambraski1, Marilyn A. Sharp1. U.S. Army Research Institute of Environmental Medicine, Natick, MA.
Email: stephen.a.fouli.civ@mail.mil
(No relationships reported)

366 Board #187 9:30 AM - 11:00 AM
Relationship Between Soldier Performance on the Two-Mile Run and Beep Test: Ability to Predict VO2max
Maria C. Canino1, Stephen A. Fouli1, Jan E. Redmond2, Edward J. Zambraski1, Marilyn A. Sharp1. U.S. Army Research Institute of Environmental Medicine, Natick, MA.
Email: maria.c.canino.ctr@mail.mil
(No relationships reported)

367 Board #188 9:30 AM - 11:00 AM
The Physiological Demands of a 16 km Loaded Patrol Running Carriage.
James F. Scales1, Damian A. Coleman, Mathew Brown. Canterbury Christ Church University, Canterbury, United Kingdom.
Email: j.scales895@canterbury.ac.uk
(No relationships reported)

368 Board #189 9:30 AM - 11:00 AM
Neuromuscular Responses to Consecutive Day Military Load Carriage.
James F. Scales, Damian A. Coleman, Mathew Brown. Canterbury Christ Church University, Canterbury, United Kingdom.
Email: j.scales895@canterbury.ac.uk
(No relationships reported)

369 Board #190 9:30 AM - 11:00 AM
Optimal Number of Practice Sessions for Performance of Heavy Loading Tasks in Soldiers
Marilyn A. Sharp1, Stephen A. Fouli1, Jan E. Redmond2, Peter N. Frykman1, Bradley J. Warr2, Edward J. Zambraski1. USARIEM, Natick, MA. ORISE, Baltimore, MD. (Sponsor: Edward J. Zambraski, FACSM)
Email: marilyn.a.sharp.civ@mail.mil
(No relationships reported)

370 Board #191 9:30 AM - 11:00 AM
Body Composition and Physical Determinants of Physiological and Musculoskeletal Readiness in Marines
Katelyn Fleishman Allison1, Karen A. Keenan1, Qi Mi1, Mita T. Lovalekar1, Kim Beals1, Lawrence C. Coleman1, Bradley C. Nindl1, FACSM1. 1University of Pittsburgh, Pittsburgh, PA. 2US Army Public Health Center, Aberdeen Proving Ground, MD. 3University of South Carolina, Columbia, SC. 4US Army: The Citadel, The Military College of South Carolina, Charleston, SC.
Email: Katelyn.fleishman.allison@us.army.mil
(No relationships reported)
Board #193  9:30 AM - 11:00 AM
Dose Dependent Increases in Electrodermal Activity During Exercise in Military Men: Absolute Versus Relative Workloads
Shiloh Fuller. Naval Health Research Center/Leidos, San Diego, CA. (Sponsor: Dr. Marcus K. Taylor, FACSM)
Email: shilohfuller@gmail.com
(No relationships reported)

Board #194  9:30 AM - 11:00 AM
Identifying The Critical Tasks Of The Raf Regiment
James Treweek1, Gemma Milligan2, Mike Tipton3, Sam Smithson1.
1Royal Air Force, High Wycombe, United Kingdom. 2Portsmouth University, Portsmouth, United Kingdom.
Email: james.treweek@outlook.com
(No relationships reported)

Board #195  9:30 AM - 11:00 AM
Identification and Verification of Critical Physically Demanding Tasks Undertaken by Royal Marines
Ella F. Walker1, Sam D. Blacker1, Sarah L. Coakley1, Ella Walker1, Beverly Hale1, Julie P. Greeves2, Stephen D. Myers1.
1University of Chichester, Chichester, United Kingdom. 2Mark Rayson Consulting Limited, Bristol, United Kingdom.
3US Army Research Institute of Environmental Medicine, Natick, MA. 4Human Resources Research Organization, Alexandria, VA. 5Institute of Naval Medicine, Gosport, United Kingdom. 6Army Personnel Research Capability, Andover, United Kingdom. (Sponsor: Knapik, JJ (FACSM), Gebhardt, D (FACSM), FACSM)
Email: ella.walker@chi.ac.uk
(No relationships reported)

Board #196  9:30 AM - 11:00 AM
The Potential for Sex Bias in Physical Employment Test Design
Piette E.H. Brown1, Sophie E. Britland1, Jules Stevenson2, Barry Sloan2, Dean Simpson1, Fran Gunner1, Joanne L. Fallowfield1.
1Institute of Naval Medicine, Gosport, United Kingdom. 2Royal Navy, Portsmouth, United Kingdom.
Email: NAVYINM-EMAP2@mod.uk
(No relationships reported)

Board #197  9:30 AM - 11:00 AM
Fitness Trumps Gender; Next Fit Soldier Up
Todd A. Crowder1, Michael F. Kloepper2, Ian B. MacPherson2.
1US Military Academy, West Point, NY. 2’173rd Airborne Brigade, Vicenza, Italy.
Email: todd.crowder@usma.edu
(No relationships reported)

Board #198  9:30 AM - 11:00 AM
Gender Differences In British Army Infantry Representative Military Task Performance
Sam D. Blacker1, Sarah L. Coakley1, Ella Walker1, Beverly Hale1, Sarah Jackson1, Julie P. Greeves2, Russ Roberts2, Stephen D. Myers1.
1University of Chichester, Chichester, United Kingdom. 2Army HQ, Andover, United Kingdom.
Email: s.blacker@chi.ac.uk
(No relationships reported)

Board #199  9:30 AM - 11:00 AM
Sex Differences in Training Load During British Army Phase One Training
Email: ARTD-OcRecMed-RA2@mod.uk
(No relationships reported)

Board #200  9:30 AM - 11:00 AM
Diurnal Pattern of Salivary C-Reactive Protein and Associations with Biobehavioral Correlates in Military Men
Lisa M. Hernández, Marcus K. Taylor, FACSM. Naval Health Research Center, San Diego, CA. (Sponsor: Marcus K. Taylor, FACSM)
Email: lisa.m.hernandez75.ctr@mail.mil
(No relationships reported)

Board #201  9:30 AM - 11:00 AM
The “Yin and Yang” of the Adrenal and Gonadal Systems in Elite Military Men
Marcus K. Taylor1, Lisa M. Hernández1, Shiloh A. Kvitakovsky1, Matthew R. Schoenher1, Michael S. Stone2, Paul Sargent1. Naval Health Research Center, San Diego, CA. 3Purdue University, San Diego, CA. 4Naval Special Warfare Center, San Diego, CA.
Email: marcus.k.taylor2.civ@mail.mil
(No relationships reported)

Board #202  9:30 AM - 11:00 AM
Vitamin D Supplementation Augments SlgA Secretion Rates in Marine Corps Basic Trainees
Jonathan M. Scott1, Erin Gaffney-Stongberg2, Jeremy P. Palmer1, Ryan D. Daigle1,3, Joshua B. Kazman1, James P. McClung2, Heath G. Gasier1. Uniformed Services University of the Health Sciences, Bethesda, MD. 2United States Army Research Institute of Environmental Medicine, Natick, MA.
Email: jonathan.scott.ctr@usuhs.edu
(No relationships reported)

Board #203  11:00 AM - 12:30 PM
Alterations of Mitochondrial Dynamics Proteins in Primary Human Myotubes Following Roux-en-Y Gastric Bypass Surgery
Kai Zou1, J. Matthew Hinkle3, Sanghee Park1, Donghai Zheng2, G. Lynn Dohrn1, Joseph A. Houmard, FACSM2. 1University of Massachusetts Boston, Boston, MA. 2East Carolina University, Greenville, NC.
Email: kaizou1@gmail.com
(No relationships reported)

Board #204  11:00 AM - 12:30 PM
Osteocalcin Does Not Increase Insulin Sensitivity or Mitochondrial Biogenesis in Palmitate Treated C2C12 Myotubes
Hailey A. Parry, Roger A. Vaughan, Kyle L. Sunderland. High Point University, High Point, NC.
Email: parryh13@highpoint.edu
(No relationships reported)

Board #205  11:00 AM - 12:30 PM
MKP-5 Establishes Skeletal Muscle Metabolic Quiescence by Negatively Regulating MAPK-dependent Mitochondrial Function
Kisuk Min, Anton M. Bennett. Yale University, New Haven, CT.
Email: kisuk.min@yale.edu
(No relationships reported)

Board #206  11:00 AM - 12:30 PM
Mitochondria Content In Rat Ankle Extensor Muscles Following Chronic Endurance Exercise
(No relationships reported)
A-51 Free Communication/Poster - Nutrition and Athletes

Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

386 Board #207
11:00 AM - 12:30 PM
Myokine/Cardiokine Follistatin-like Protein 1 Promotes Oxidative MyHC Expression and Mitochondrial Function in Myogenic Cells
Eric R. Munoz1, Boa Kim1, Mitsuru Seki1, Jeff Powers1, Hojun Lee1, Kenneth Walsh1, Fabio Recchia1, Joon Y. Park1. 1Temple University, Philadelphia, PA. 2Boston University, Boston, MA.
Email: munozericr@gmail.com
(No relationships reported)

387 Board #208
11:00 AM - 12:30 PM
Exercise Preconditioning Improves Mitochondrial Morphology and Function in Rat Lungs Damaged after Heavy Exercise
Lu Wang, Wenqian Deng, Xue Li, Qiongjia Yuan. Chengdu Sport Institute, Chengdu, China. (Sponsor: Tongjian You, FACSM)
Email: 21379183@qq.com
(No relationships reported)

388 Board #209
11:00 AM - 12:30 PM
Energy Balance During A Self-sufficient, Multistage Ultramarathon: a Case Study
Paul Hough, James Earle. St Mary’s University, Twickenham, United Kingdom.
Email: Paul.hough@stmarys.ac.uk
(No relationships reported)

389 Board #210
11:00 AM - 12:30 PM
Nutrition Education Improves Nutrition Knowledge, Not Dietary Habits In Female Collegiate Distance Runners
Marissa Bongers, Bryce M. Abbey, Kate A. Heelan, FACSM, Janet E. Steele, Gregory A. Brown, FACSM, the University of Nebraska Kearney, Kearney, NE. (Sponsor: Gregory A. Brown, FACSM)
(No relationships reported)

390 Board #211
11:00 AM - 12:30 PM
In Race Nutritional Strategies Comparing Ironman Wisconsin Athletes to Ironman World Championship Athletes
Stephanie Harpenau, Elaina Biechler, Lauren Sutton. Loras College, Dubuque, IA. (Sponsor: Vincent Paolone, FACSM)
Email: stephanie.harpenau@loras.edu
(No relationships reported)

391 Board #212
11:00 AM - 12:30 PM
Vitamin D Awareness and Intake in Collegiate Athletes
John S. Fitzgerald1, Bennett A. Leitch1, Patrick B. Wilson1, Tanis J. Walch1, Sandra E. Short1, Kelsey Uthol1, James N. Roemmich, FACSM. 1University of North Dakota, Grand Forks, ND. 2Old Dominion University, Norfolk, VA. 3Grand Forks Human Nutrition Research Center, USDA. Grand Forks, ND. (Sponsor: James Roemmich, FACSM)
Email: John.S.fitzgerald@und.edu
(No relationships reported)

392 Board #213
11:00 AM - 12:30 PM
Food Servings Habitually Ingested By Mexican Varsity Athletes Depending On The Type Of Sport
(No relationships reported)
Board #221
Inadequacy Of Food-Energy Supplying To The Energy Requirements Of Female Ballet Dancers
Caroline Bernardino¹, Rodrigo M. Manda¹, Naiza Maestê², Roberto C. Burini, FACSM¹. ¹Unesp Medical School, Botucatu/SP, Brazil. ²Piracicaba Methodist University, Piracicaba/SP, Brazil. (Sponsor: Roberto Carlos Burini, FACSM)
Email: Caa.bernardino@hotmail.com (No relationships reported)

Board #222
Twelve-weeks Oral Spray Vitamin D, Supplementation Does Not Alter Bone Turnover Markers In Collegiate Gaelic Footballers
Sharon M. Madigan¹, Julianne Doherty¹, Stephen D. Myers¹, Sam D. Blacker¹, Ireland. (Sponsor: Dr. Giles Warrington, FACSM)
Email: smadigan@instituteofsport.ie (No relationships reported)

Board #223
Anxiety and Stress Predict Gastrointestinal Symptoms during One Month of Running
Patrick B. Wilson, Old Dominion University, Norfolk, VA.
Email: pwilson@odu.edu (No relationships reported)

A-52
Free Communication/Poster - Occupational/ Firefighter Physiology
Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

Board #224
The Physiological Responses of Specialist-Role Paramedics Undertaking a Simulation Treating Casualties Exposed to Hazardous Materials
Jane ES Thompson¹, Mark Rayson², Ella F. Walker², Carla A. Gallagher¹, Julianne Doherty¹, Stephen D. Myers¹, Sam D. Blacker¹. ¹University of Chichester, Chichester, United Kingdom. ²Mark Rayson Consulting Limited, Bristol, United Kingdom.
Email: j.thompson@chi.ac.uk (No relationships reported)

Board #225
The Physiological Responses of Specialist-Role Paramedics Treating Casualties in a Simulated Firearms Incident
Carla A. Gallagher¹, Mark P. Rayson¹, Ella F. Walker¹, Jane ES Thompson¹, Julianne Doherty¹, Stephen D. Myers¹, Sam D. Blacker¹. ¹University of Chichester, Chichester, United Kingdom. ²Mark Rayson Consulting Limited, Bristol, United Kingdom.
Email: C.Gallagher@chi.ac.uk (No relationships reported)

Board #226
The Physiological Response of Specialist-Role Paramedics Undertaking a Casualty Decontamination Scenario
Julliane Doherty¹, Mark P. Rayson¹, Ella F. Walker¹, Jane ES Thompson¹, Carla A. Gallagher¹, Stephen D. Myers¹, Sam D. Blacker¹. ¹University of Chichester, Chichester, United Kingdom. ²Mark Rayson Consulting Limited, Bristol, United Kingdom.
Email: j.doherty@chi.ac.uk (No relationships reported)

Board #227
A Case Report: The Physiological Strain Incurred by Electrical Utility Workers During Consecutive Work Days
Andrew W. D’Soura¹, Robert D. Meade¹, Lovely Krishen², Martin P. Poirier¹, Glen P. Kenny¹. ¹University of Ottawa, Ottawa, ON, Canada. ²Electrical Power Research Institute, Knoxville, TN.
Email: adsou102@uottawa.ca (No relationships reported)

Board #228
Heat Stress, Dehydration and Cardiovascular Responses in Sugar Cane Cutters in Brazil
Fabiano T. Amorini¹, Flávio C. Magalhães², Cássio Diniz², Christiano M. Moreira³, Elisa Shibuya², Ieron Cunha², Paulo Maia², Rodrigo Roscani², Daniel Bitencourt¹. ¹University of New Mexico, Albuquerque, NM. ²Federal University of the Jequitinhonha and Mucuri Valleys, Diamantina, Brazil. ³Federal University of Juiz de Fora, Governor Vádares, Brazil. (F)undação Jorge Duapret e Figueiredo - FUNDACENTRO, São Paulo, Brazil. (F)undação Jorge Duprat e Figueiredo - FUNDACENTRO, Campinas, Brazil. (F)undação Jorge Duprat e Figueiredo - FUNDACENTRO, Florianópolis, Brazil. (Sponsor: Ann Gibson, FACSM)
Email: amorini@unn.edu (No relationships reported)

Board #229
Thermal Exposure Limit for Mine Refuge Chambers: A Pilot Study
Candi D. Ashley, Rebecca M. Lopez, FACSM, Danielle Aguilar, Thomas E. Bernard. University of South Florida, Tampa, FL.
Email: gkenny@uottawa.ca (No relationships reported)

Board #230
Uncompensable Heat Stress Improves Manual Dexterity, But Does Not Affect Risk Propensity
Rebecchi L. Stansbery, Zachary J. Schlader, Jennifer L. Temple, Lindsey N. Russo, David Hostler, FACSM. University at Buffalo, BUFFALO, NY. (Sponsor: David Hostler, FACSM)
Email: lstanbos@buffalo.edu (No relationships reported)

Board #231
Selection into Shipbuilding Occupations when Dealing with Missing Data
Deborah L. Gebhardt, FACSM, Todd A. Baker. HumRRO, Alexandria, VA.
Email: dgebhardt@humrro.org (No relationships reported)

Board #232
Flow-resistive Inspiratory Muscle Training Improves Running Time To Exhaustion With Thoracic Load Carriage
Ren-Jay Shei, Robert F. Chapman, FACSM, Allison H. Gruber, Daniel P. Wilhite, Timothy D. Mickleborough, FACSM. Indiana University, Bloomington, IN. (Sponsor: Timothy D. Mickleborough, FACSM)
Email: sebastian.poiirier@htaq.ca (No relationships reported)

Board #233
Assessment of the Physical Requirements Related to the Basic Training Program in Police Patrolling
Sébastien Poirier¹, Annie Gendron², Louis Laurencelle, Joanny Badeau¹, Claude Lapointe. ¹Université du Québec à Trois-Rivières, Trois-Rivières, QC, Canada. ²École Nationale de Police du Québec, Nicolet, QC, Canada. (Sponsor: François Trudeau, FACSM)
Email: Sebastien.Poirier@htaq.ca (No relationships reported)

www.acsm.org
<table>
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<th>Board #235</th>
<th>9:30 AM - 11:00 AM</th>
<th>Development of a New Job-Related Physical Test for the Basic Training Program in Police Patrolling</th>
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<tr>
<td>Claude Lajoie1, Sébastien Poiret1, Annie Gendon1, Louis Laurencelle2, 1 Université du Québec à Trois-Rivières, QC, Canada. 2 École Nationale de Police du Québec, Nicolet, QC, Canada. (Sponsor: Francois Trudeau, FACSM) Email: <a href="mailto:claude.lajoie@uqtr.ca">claude.lajoie@uqtr.ca</a></td>
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<tr>
<td>Board #236</td>
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<td>DEXA Body Composition and Cardiovascular Risk Factors are Weakly Related in Police Officers</td>
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<td>Alison McGuire, Stephen F. Crouse, FACSM, Steven Martin, Allison Donnell, Daniel Mohnke, John S. Green, FACSM. Texas A&amp;M University; College Station, TX. (Sponsor: Dr. Stephen Crouse, FACSM) Email: <a href="mailto:kohns15@tamu.edu">kohns15@tamu.edu</a></td>
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<tr>
<td>Board #237</td>
<td>9:30 AM - 11:00 AM</td>
<td>DEXA Body Composition Is Weakly Related To Blood Lipids, Blood Pressure, And Glucose in Firefighters</td>
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<td>Kalen A. Johnson, Daniel Mohnke, Allison Donnell, Steven E. Martin, John S. Green, FACSM, Stephen F. Crouse, FACSM. Texas A&amp;M University; College Station, TX. (Sponsor: Stephen F. Crouse, FACSM) Email: <a href="mailto:kohns15@tamu.edu">kohns15@tamu.edu</a></td>
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<td>Board #238</td>
<td>9:30 AM - 11:00 AM</td>
<td>Analysis of Dietary Intake in Volunteer Firefighters</td>
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<td>Kelly C. McLaughlin1, Lauren N. Chavis1, Rachel Dickinson1, Emily Reeve1, Christian K. Roberts, FACSM2, Deborah L. Fehrletter1, 1 Ursinus College, Collegeville, PA. 2 Occidental College, Los Angeles, CA. (Sponsor: Christian Roberts, FACSM) Email: <a href="mailto:philippe.gendron@uqtr.ca">philippe.gendron@uqtr.ca</a></td>
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<td>Board #239</td>
<td>9:30 AM - 11:00 AM</td>
<td>The Body Mass Index And Its Relationship With Cardiovascular Risk in Firefighters</td>
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<tr>
<td>Philippe Gendron, François Trudeau, FACSM, Claude Lajoie, Louis Laurencelle. Université du Québec à Trois-Rivières, Trois-Rivières, QC, Canada. Email: <a href="mailto:philippe.gendron@uqtr.ca">philippe.gendron@uqtr.ca</a></td>
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<td>Board #240</td>
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<td>Efficacy of a Goal Setting Intervention on Firefighters' Cardiorespiratory Fitness: A Pilot Randomized Controlled Trial</td>
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<td>Diedra Bycura, Natalia Dmitrieva, Anthony Santos, Kelsey Waugh, Kamiko Ritchey. Northern Arizona University; Flagstaff, AZ. (Sponsor: Christian Roberts, FACSM) Email: <a href="mailto:diedra.bycura@nau.edu">diedra.bycura@nau.edu</a></td>
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<td>Board #241</td>
<td>9:30 AM - 11:00 AM</td>
<td>The Effect of Age on Cardiorespiratory and Muscular Fitness Measures in Female Firefighters</td>
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<tr>
<td>Lauren K. Kirlin1, Jeanne F. Nichols, FACSM2, Katie Rusk1, Richard A. Parker1, Mitchell J. Rath, FACSM3, 1 San Diego State University; San Diego, CA. 2 University of California San Diego, La Jolla, CA. 3 San Diego Firefighters' Regional Fire Wellness Center; San Diego, CA. (Sponsor: Jeanne Nichols, FACSM) Email: <a href="mailto:kirlin3@gmail.com">kirlin3@gmail.com</a></td>
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<td>Board #242</td>
<td>9:30 AM - 11:00 AM</td>
<td>Heart Rate Recovery As Part Of Firefighters' Selection Process?</td>
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<tr>
<td>Jean-Guy Handfiled1, Vincent Gosselin Boucher2, Alain Steve Comtois1. 1 Optimum Consultants, Montréal, QC, Canada. 2 Université du Québec à Montréal, Montréal, QC, Canada. (Sponsor: Jean-Pierre Boucher, FACSM) Email: <a href="mailto:vincent.gosselin.boucher@gmail.com">vincent.gosselin.boucher@gmail.com</a></td>
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<tr>
<td>Board #243</td>
<td>9:30 AM - 11:00 AM</td>
<td>Physical Fitness, Body Composition And Quality Of Life Among Brazilian Police Recruits</td>
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<td>Welere G. Barbosa1, Edgard M. K. V. K. Soares1, Guilherme E. Molina1, Maria Korre2, Stefanos N. Kales3, Keila E. Fontana1, Luiz Guilherme G. Porto4. 1 Universidade de Brasilia, Brasilia, Brazil. 2 Harvard T. H. Chan School of Public Health, Boston, MA. 3 University of Brasilia and Harvard T. H. Chan School of Public Health, Brasilia and Boston, Brazil. Email: <a href="mailto:welere@gmail.com">welere@gmail.com</a></td>
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<td>Board #244</td>
<td>11:00 AM - 12:00 PM</td>
<td>Effect Of Bench Press Load Knowledge On Repetitions, RPE, And Attentional Focus</td>
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<td>Christina Beauclair, Zachary Cox, Johnathon Kim, Daniel Pillivant, Tayler Thomas, Tyler Dundore. Grand Valley State University, Allendale, MI. Email: <a href="mailto:beaclairc@gvsu.edu">beaclairc@gvsu.edu</a></td>
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<td>Board #245</td>
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<td>Evaluating Instructions For Use Of The Rate Of Perceived Exertion Scale: A Pilot Study</td>
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<td>Olivia Henderson, Melissa Powers. University of Central Oklahoma, Edmond, OK. Email: <a href="mailto:mecurriss3@uco.edu">mecurriss3@uco.edu</a></td>
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<td>Board #246</td>
<td>11:00 AM - 12:30 PM</td>
<td>The Effect of an Energy Harvesting Backpack on Perceived Exertion during Locomotion</td>
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<td>Andrew Tweedell1, Courtney Haynes1, Laurie Milliken, FACSM1, Julienne Douglas2, Jose Collazo2. 1 Army Research Laboratory, Aberdeen Proving Ground, MD. 2 Communications-Electronics, Research, Development, and Engineering Center, Aberdeen Proving Ground, MD. Email: <a href="mailto:andrew.tweedell.ctr@mail.mil">andrew.tweedell.ctr@mail.mil</a></td>
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<td>Board #247</td>
<td>11:00 AM - 12:30 PM</td>
<td>Validity And Reliability Of Borg’s 6-20 RPE Scale Among Chinese Mandarin Speaking Young Healthy Adults</td>
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<td>Wei-yang Ding1, Tongjian You, FACSM2, Phil Gona2, Laurie Milliken, FACSM2. 1 Northern Iowa University, Cedar Falls, IA. 2 University of Massachusetts Boston, Boston, MA. (Sponsor: Laurie Milliken, FACSM) Email: <a href="mailto:dingwy2002@yahoo.com">dingwy2002@yahoo.com</a></td>
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<td>Board #248</td>
<td>11:00 AM - 12:30 PM</td>
<td>Perceptual Responses Of High Intensity Interval Training Among Overweight And Obese Individuals</td>
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<td>John T. Halvorson, Carmen Byker-Shanks, John G. Seifert, FACSM, Mary P. Miles, FACSM. Montana State University, Bozeman, MT. (Sponsor: Mary Miles, FACSM)</td>
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<td>Board #249</td>
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<td>Impact of Using Perceptually Regulated Recovery Periods During Repeated Sprint Work</td>
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<td>Matt Laurent1, Danilo Tolusso2, Adam Fullenkamp1, Stephanie Douglas1, Justin Kraft, FACSM2, Matt Green, FACSM2. 1 Bowling Green State University, Bowling Green, OH. 2 University of Alabama, Tuscaloosa, AL. 3 Missouri Western State University, St. Joseph, MO. 4 University of North Alabama, Florence, AL. (Sponsor: Matt Green, FACSM) Email: <a href="mailto:ecolaure@bgsu.edu">ecolaure@bgsu.edu</a></td>
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Board #250  11:00 AM - 12:30 PM
Comparison Of Different Instructional Sets For Patient-Generated Indexes Of Pain Severity
Email: dannecker@missouri.edu
(No relationships reported)

Board #251  11:00 AM - 12:30 PM
Predicting Affective Exercise Responses from a Submaximal Exercise Test Using the Feeling Scale
Emilee Traxler1, Robert W. Pettitt, FACSM2, Mark Hartmann2, Cherie D. Pettitt1. 1Minnesota State University-Mankato, Mankato, MN. 2Iowa State University, Ames, IA. (Sponsor: Robert W. Pettitt, FACSM)
Email: namritak@gmail.com
(No relationships reported)

Board #252  11:00 AM - 12:30 PM
Caffeine but not Low-Carbohydrate Improves Exercise Capacity in Sedentary Adults Similar to Endurance Trained Athletes
Namrita Kumar1, Gordon L. Warren, FACSM2, Teresa Snow1, Mindy Millard-Stafford, FACSM2, 1Georgia Institute of Technology, Atlanta, GA. 2Georgia State University, Atlanta, GA. (Sponsor: Mindy Millard-Stafford, FACSM)
Email: slater.powell1923@gmail.com
(No relationships reported)

Board #253  11:00 AM - 12:30 PM
Fatigue as a Rehabilitation Strategy to Reduce Quadriceps Inhibition Following Anterior Cruciate Ligament (ACL) Reconstruction
Timothy Lowe1, Qi Zhang2, Xuanliang Dong1. 1University of Texas at Tyler, Tyler, TX. 2Tsinghua University, Beijing, China. (Sponsor: Yong Tai Wang, FACSM)
Email: dclifton88@gmail.com
(No relationships reported)

Board #254  11:00 AM - 12:30 PM
Recreationally-Trained Subjects are Unable to Attenuate VO2 Slow Component During Severe Exercise Using RPE
Slater K. Powell1, Emilie M. Hauser1, Nathan D. Dicks1, Robert W. Pettitt, FACSM2, Cherie D. Pettitt1. 1University of Texas at Tyler, Tyler, TX. 2Minnesota State University, Mankato, MN. 3North Dakota State University, Fargo, ND. (Sponsor: Robert W. Pettitt, FACSM)
Email: slater.powell1923@gmail.com
(No relationships reported)

Board #255  11:00 AM - 12:30 PM
Acute Affective Responses To High-Intensity Interval Training In Trained and Untrained Men
Yuniko Higaki, Hisashi Mori, Chihiro Kojima, Kazushige Goto. Ritsumeikan University, Kusatsu, Japan. (Sponsor: Daniel C. Herman, FACSM)
Email: sh0063dp@ed.ritsumeik.ac.jp
(No relationships reported)

Board #256  11:00 AM - 12:30 PM
The Validity of Oxygen Uptake Efficiency Measures in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome
Stephanie M. Van Riper1, Jin-Mann S. Lin1, Elizabeth R. Unger1, Ryan J. Dougherty1, Multisite Clinical Assessment of ME/CFS (MCAM) Workgroup2, Dane B. Cook, FACSM1. 1University of Wisconsin, Madison, WI. 2Centers for Disease Control and Prevention, Atlanta, GA. (Sponsor: Dane B. Cook, FACSM)
Email: smvanriper@gmail.com
(No relationships reported)

Board #257  11:00 AM - 12:30 PM
Association of Interrelated Neuromechanical Factors with Injury Occurrence among College Football Players
Gary B. Wilkerson. University of Tennessee at Chattanooga, Chattanooga, TN. (Sponsor: Daniel C. Herman, FACSM)
Email: Gary-Wilkerson@utc.edu
(No relationships reported)

Board #258  11:00 AM - 12:30 PM
Relationships Among Lower Extremity Range Of Motion, Postural Control, And Power Generation Asymmetries: The FPPE Project
Daniel R. Clifton, Cambric Starked, James A. Onate. The Ohio State University, Columbus, OH.
Email: dcclifton88@gmail.com
(No relationships reported)

Board #259  11:00 AM - 12:30 PM
The Comprehensive High-level Activity Mobility Predictor-Sport (CHAMP-S): A Performance-Based Outcome Measure to Quantify High-level Mobility and Assist with Return to Sport for Division I Collegiate Football Players
Ignacio A. Gauaurd, Michele Raya, Luis Feigenbaum, Christopher L. Bennett, David Viggiano, Jay Hertel, FACSM. University of Miami, Coral Gables, FL.
Email: igauaurd@med.miami.edu
(No relationships reported)

Board #260  11:00 AM - 12:30 PM
Predicting Knee and Thigh Injury Risk Using Scaled Vertical Jump and Standing Long Jump Power
Suzanne M. Konz. Marshall, Huntington, WV.
Email: konz@marshall.edu
(No relationships reported)

Board #261  11:00 AM - 12:30 PM
Test-Retest Reliability of Functional Tasks in Healthy High School Athletes: The FPPE Project
Cambric Starked1, Daniel R. Clifton1, Thomas M. Best, FACSM2, James Borchers, FACSM2, Ajit Chaudhari, FACSM2, R. Dawn Comstock1, Nelson Cortes3, Jay Hertel, FACSM2, Xueliang Pan1, Bonnie Van Lune4, James Onate5. 1The Ohio State University, Columbus, OH. 2University of Miami, Miami, FL. 3University of Colorado-Anschutz, Denver, CO. 4George Mason University, Manassas, VA. 5University of Virginia, Charlottesville, VA. (Sponsor: James Borchers, FACSM)
Email: danneckere@missouri.edu
(No relationships reported)

Board #262  11:00 AM - 12:30 PM
Injury And Illness Profiles During The 2014 South African Ironman Ultra-distance Triathlon
Email: holt.louis@gmail.com
(No relationships reported)
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<th>Session</th>
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<th>Authors</th>
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<td>Board #263</td>
<td>Adding BMI to Electrocardiographic Criteria improves Accuracy of Predicting Left Ventricular Mass in Football Athletes</td>
<td>Stephen F. Crouse, FACSM¹, John P. Erwin, II², Stephanie White³, Thomas H. Meade⁴, Steven E. Martin⁵, John S. Green, FACSM⁶, Jonathan M. Oliver⁷, Dustin P. Joubert⁸, Bradley S. Lambert⁹, Joe P. Branham¹⁰, Kory Gill¹¹, David Weir¹², Horner Tolsen¹³. Texas A&amp;M University, College Station, TX.¹⁴Texas A&amp;M University College of Medicine, Bryan, TX.¹⁵SSM Heart Institute/Clayton, St. Louis, MO.¹⁶Baylor Scott and White, College Station, TX.¹⁷Texas Christian University, Fort Worth, TX.¹⁸Stephen F. Austin State University, Nacogdoches, TX.</td>
<td>Email: <a href="mailto:s-crouse@tamu.edu">s-crouse@tamu.edu</a></td>
<td>(No relationships reported)</td>
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<td>Board #264</td>
<td>Effect of Previous Injury on Functional Movement Screening Outcomes</td>
<td>Joshua Hoffman¹, Michael Krill¹, Toren Moore¹, James Borchers, FACSM¹, Timothy Hewett, FACSM¹. The Ohio State University, Columbus, OH.¹²Mayo Clinic, Rochester, MN (Sponsor: Timothy Hewett, FACSM).</td>
<td>Email: <a href="mailto:joshua.hoffman@osumc.edu">joshua.hoffman@osumc.edu</a></td>
<td>(No relationships reported)</td>
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<td>Board #265</td>
<td>Movement Screening Results</td>
<td>Elizabeth H. Seldomridge¹, Robert W. Boyce, FACSM¹, Austin Caputo.</td>
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<td>(No relationships reported)</td>
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<td>Board #266</td>
<td>High School Preparticipation Evaluation Screenings: Do States Include Mental Health Recommendations?</td>
<td>Jacey Keeney¹, Josh Kaplan², Kristin L. Schneider³. Rosalind Franklin University of Medicine &amp; Science, North Chicago, IL.²Wittenberg University, Springfield, OH.</td>
<td>Email: <a href="mailto:jacyl.Keeney@my.rfums.org">jacyl.Keeney@my.rfums.org</a></td>
<td>(No relationships reported)</td>
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<td>Board #267</td>
<td>Musculoskeletal Injuries from Psychological, Neurocognitive and Physical Factors in Collegiate Athletes</td>
<td>Monique Mokha, 33128, Dustin Gaten, Steve Orris, Steve Russo. Nova Southeastern University, Ft. Lauderdale, FL.</td>
<td>Email: <a href="mailto:gm588@nova.edu">gm588@nova.edu</a></td>
<td>(No relationships reported)</td>
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<td>Board #268</td>
<td>Predicting Musculoskeletal Injuries from Psychological, Neurocognitive and Physical Factors in Collegiate Athletes Without Injury History</td>
<td>Toren Moore. The Ohio State University, Columbus, OH.</td>
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<td>Board #269</td>
<td>The Efficacy Of Performance On Clinical Hop Tests To Predict Previous Lower Extremity Injury</td>
<td>Toren Moore. The Ohio State University, Columbus, OH.</td>
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<td>Board #270</td>
<td>Effects of Rest Interval Duration on the Volume Completed during an Intensity Bench Press Exercise</td>
<td>Dennis J. Hernandez, Gil Spitz, Anna M. Welch, Young Sub Kwon. Humboldt State University, Arcata, CA.</td>
<td>Email: <a href="mailto:youngsubkwon@hotmail.com">youngsubkwon@hotmail.com</a></td>
<td>(No relationships reported)</td>
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<td>Board #271</td>
<td>Evaluation Of Strength And Conditioning With On-court Success In Division I Collegiate Volleyball: A Retrospective Study</td>
<td>Jennifer Bunn¹, Gregory Ryan, FACSM¹, Gabriel Button¹, Sidong Zhang¹.¹Campbell University, Buies Creek, NC. ²Georgia Southern, Statesboro, GA. ³North Carolina State University, Raleigh, NC. (Sponsor: J.W. Yates, FACSM).</td>
<td>Email: <a href="mailto:bunnj@campbell.edu">bunnj@campbell.edu</a></td>
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<td>Board #272</td>
<td>Effects Of Barbell-based, Full-body Resistance Training On Muscular Strength, Lean Body Mass, And Cardiometabolic Biomarkers</td>
<td>Robert S. Santana, Carol Johnston. Arizona State University, Phoenix, AZ.</td>
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<td>Board #273</td>
<td>Eccentric Resistance Training in Adults with and without Spinal Cord Injuries</td>
<td>Whitley J. Stone, Sandra L. Stevens, Dana K. Fuller, Jennifer L. Caputo. Middle Tennessee State University, Murfreesboro, TN.</td>
<td>Email: <a href="mailto:wj3c@mtmail.mtsu.edu">wj3c@mtmail.mtsu.edu</a></td>
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<td>Board #274</td>
<td>Bench Press Strength Changes Over 23 Years in Police Recruits with Gender Comparisons</td>
<td>Elizabeth H. Seldonridge¹, Robert W. Boyce, FACSM¹, Austin C. Smith¹, Haley O. Norris¹, Glenn R. Jones², Michele A. Parker³.¹Florida Atlantic University Charles E. Schmidt College of Medicine, Boca Raton, FL.²The Ohio State University Wexner Medical Center, Columbus, OH.³Mayo Clinic, Rochester, MN.</td>
<td>Email: <a href="mailto:krill.11@buckeyemail.osu.edu">krill.11@buckeyemail.osu.edu</a></td>
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<td>Board #275</td>
<td>Identifying Metabolic Syndrome Risk Factors in Division 1 and Division 3 Football Players: a Pilot Study</td>
<td>Janet T. Peterson, FACSM¹, Garth J. Babcock², Annika Vahk², Wendy ES Repovich, FACSM¹.¹Linfield College, McMinnville, OR.²Eastern Washington University, Cheney, WA.</td>
<td>Email: <a href="mailto:pragya@ou.edu">pragya@ou.edu</a></td>
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464  Board #285  9:30 AM - 11:00 AM  Comparison of 4 Weeks of Circuit Training Versus Resistance Training in Middle-Aged Adults
Tia R. Wisdo¹, Allyson K. Getty¹, Jessica A. Hill¹, Alyssa N. Polimeni¹, Lauren N. Chavis¹, Avery N. Perez¹, Rejeanna M. Jasinski¹, Cassandra C. Derella¹, Samantha N. Close¹, Kelly C. McLaughlin¹, Meaghan E. Corbin¹, Kendall Couch¹, Stephanie Donahue¹, Heather A. Brubaker¹, Bridget L. Winny¹, Rachel Dickinson¹, Clara Baker¹, Emily Reese¹, Christian K. Roberts, FACSM, FACSM², Deborah L. Fearheller, FACSM, FACSM². 1 'University College, Collegeville, PA. 2 Occidental College, Los Angeles, CA. (Sponsor: Christian K. Roberts, FACSM)
Email: twisdo@ursinus.edu
(No relationships reported)

465  Board #286  9:30 AM - 11:00 AM  Acute Effects of the Power Snatch on Vertical Jump Performance
Email: ndiaz4@u.pacific.edu
(No relationships reported)

466  Board #287  9:30 AM - 11:00 AM  Hip, Knee and Ankle Joint Power in Three Weighted Squat Jump Techniques
Jason Morgan, Luke Hileman, Sophia Pollalis, Andrew Maeda, Adam Jagodinsky, Michael Torry. Illinois State University, Normal, IL. (Sponsor: David Q. Thomas, FACSM)
Email: jmorgau@ilstu.edu
(No relationships reported)

467  Board #288  9:30 AM - 11:00 AM  Assessment of Sprint Performance Following the Use of Resistance Training Masks During Dynamic Warm-Up
Jessica A. Schnaiter-Brasche¹, John H. Sellers², Garrett M. Hester³, Taylor Monaghan¹, Emilie M. Bounds¹, Bert H. Jacobson, FACSM⁴. 1 'Georgia Southern University, Statesboro, GA. 2 University of Alabama, Tuscaloosa, TN. 3 'Memorial University of Newfoundland, St. John's, NL, Canada.
Email: jessica.schnaiter@okstate.edu
(No relationships reported)

468  Board #289  9:30 AM - 11:00 AM  Decrease of Muscle Performance After Two Different Load Protocols in Well-Trained Men: a Pilot Study
Email: analuiza.matias2@gmail.com
(No relationships reported)

469  Board #290  9:30 AM - 11:00 AM  Heavy And Light Training Days Attenuates Decline In Force Output During 3-weeks High-volume Resistance Training
Kevin M. Carroll, Jake R. Bernards, James L. Miller, Kimitake Sato, Brad H. DeWeese, Michael H. Stone. East Tennessee State University, Johnson City, TN.
Email: carrollk@etsu.edu
(No relationships reported)

470  Board #291  9:30 AM - 11:00 AM  Differences In Power And Velocity During The Back Squat In Resistance-trained Men And Women.
Jonathan M. Neddo¹, Jonathan M. Oliver², Jason D. Stone². 1 U.S. Army Research Institute of Environmental Medicine, Natick, MA. 2 George Mason University, Fairfax, VA. (Sponsor: Margaret T. Jones, FACSM)
Email: jtmorga@ilstu.edu
(No relationships reported)
A-56  Free Communication/Poster - Running

Wednesday, May 31, 2017, 7:30 AM - 12:30 PM
Room: Hall F

475 Board #296  9:30 AM - 11:00 AM
Inter-limb Differences When Using A Passive-dynamic Ankle-foot Orthosis For Running
Elizabeth Russell Espósito, Jason M. Wilken. Center:for the Intrepid, Fort Sam Houston, TX.
(No relationships reported)

476 Board #297  9:30 AM - 11:00 AM
Sport-specific Comparisons of Lower Extremity Joint Work during Running
Jacqueline Morgan, Bhushan Thakkar, Kathryn Harrison, Gregory Crosswell, D. S. Blaise Williams, III, FACSM. Virginia Commonwealth University, Richmond, VA. (Sponsor: D. S. Blaise Williams III, FACSM)
Email: morganj3@mymail.vcu.edu
(No relationships reported)

477 Board #298  9:30 AM - 11:00 AM
Changes in Joint Work across Consecutive Seasons in Collegiate Cross Country Runners
Mikel R. Stiffler, Bryan C. Heiderscheit. University of Wisconsin - Madison, Madison, WI.
Email: stiffler@ortho.wisc.edu
(No relationships reported)

ACS M 64th Annual Meeting

478 Board #299  9:30 AM - 11:00 AM
The Effect of Small Perturbations in Running Velocity on Measures of Coordination Variability
Kristyne Wiegand, Julia Freedman Silvernail. University of Nevada, Las Vegas, Las Vegas, NV. (Sponsor: John Mercer, PhD, FACSM)
Email: barte1@unlv.nevada.edu
(No relationships reported)

479 Board #300  9:30 AM - 11:00 AM
Maximalist Shoes Do Not Reduce Impact Loading During Level And Downhill Running
Roy T.H. Cheung, Fannie O.Y. Lau, Eric Ching, Zoe Y.S. Chan, Janet H.W. Zhang, Ivan P.H. Au. Hong Kong Polytechnic University, Hong Kong, China. (Sponsor: Prof. Irene S. Davis, FACSM)
Email: Roy.Cheung@polyu.edu.hk
(No relationships reported)

480 Board #301  9:30 AM - 11:00 AM
Is Variability Of Stride Frequency A Factor That Determines Preferred Stride Frequency During Running?
Kendell S. Galor, Joshua Bailey, Jared Joergen, John Mercer, FACSM. University of Nevada Las Vegas, Las Vegas, NV. (Sponsor: Dr John Mercer, FACSM)
(No relationships reported)

481 Board #302  9:30 AM - 11:00 AM
Influence Of Stride Frequency Manipulation On Muscle Activity During Running At Reduced Body Weight
Kenji Masumoto, Jared Joergen, John A. Mercer, FACSM. 1 Kyushu University, Kasuga, Japan. 2 University of Nevada, Las Vegas, NV.
(No relationships reported)

482 Board #303  9:30 AM - 11:00 AM
Smaller Compressive and Anteroposterior Joint Reaction Forces in Older Compared to Young Runners
D. S. Blaise Williams, III, FACSM, Douglas W. Powell. 1 Virginia Commonwealth University, Richmond, VA. 2 University of Memphis, Memphis, TN.
Email: ds@vcu.edu
(No relationships reported)

483 Board #304  9:30 AM - 11:00 AM
Sagittal Plane Peak Knee Angle Variability During Distance Running Training And Race Speeds
Christopher T. Robertson, Jaclyn O’Loughlin, Jeffrey T. Wight. Jacksonville University, Jacksonville, FL.
Email: crobertt7@jju.edu
(No relationships reported)

484 Board #305  9:30 AM - 11:00 AM
Use Of Inertial Magnetic Sensors To Implement Kinematic Methods To Detect Foot Contact During Running
Erik Muertens1, Max Paquette2, Jaap Bruurke2, Jasper Reinalda1. 1 Roessingh Research and Development, University of Twente, Enschede, Netherlands. 2 University of Memphis, Memphis, TN.
(Sponsor: Paul DeVita, FACSM)
Email: e.muertens@md.nl
(No relationships reported)

485 Board #306  9:30 AM - 11:00 AM
Superficial Sensory Feedback Is Not Responsible For Gait Alterations Associated With Barefoot Running
Melissa A. Thompson1, Kristyne Wiegand, Bartel D. S. Blaise Williams, III, FACSM. 1 Virginia Commonwealth University, Richmond, VA.
(Sponsor: John Mercer, PhD, FACSM)
Email: mthompson@fortlewis.edu
(No relationships reported)

486 Board #307  9:30 AM - 11:00 AM
The Ability of Sagittal Plane Kinematic Variables to Predict Loading in Different Populations of Runners
Kathryn Harrison, Bhushan Thakkar, Gregory Crosswell, Jacqueline Morgan, Virginia Commonwealth University, Richmond, VA. (Sponsor: D. S. Blaise Williams III, FACSM)
Email: harrisonk3@mymail.vcu.edu
(No relationships reported)
487  Board #308  9:30 AM - 11:00 AM  496  Board #317  9:30 AM - 11:00 AM
The Differential Effects of Footwear on Sample Entropy of Ground Reaction Force during Running
Shuai Zhang1, Yunneng Li1, Li Li, FACSM1. 1Northern Illinois University, Dekalb, IL. 2California State University Chico, Chico, CA. 3Georgia Southern University, Statesboro, GA. Email: szhang3@niu.edu (No relationships reported)

488  Board #309  9:30 AM - 11:00 AM  497  Board #318  9:30 AM - 11:00 AM
Is Muscle Activity a Factor that Determines Preferred Stride Frequency During Running Outdoors?
Krzysztof Guzey, Jared Joerger, Kendell Galor, John A. Mercer, FACSM. University of Nevada, Las Vegas, Las Vegas, NV. (Sponsor: Dr. John A. Mercer, FACSM) (No relationships reported)

489  Board #310  9:30 AM - 11:00 AM  498  Board #319  9:30 AM - 11:00 AM
Comparison Of Intrinsic Foot Muscle Size And Strength Between Gymnasts And Shoed Runners
Sarah Ridge, Mark Olsen, Kelsey Garner, J William Myrer, Dustin Bruening, A Wayne Johnson. Brigham Young University, Provo, UT. (Sponsor: J Ty Hopkins, FACSM) Email: sarah_ridge@byu.edu (No relationships reported)

490  Board #311  9:30 AM - 11:00 AM  499  Board #320  Abstract Withdrawn
Relationship of Footstrike Pattern and Landing Impacts During a Marathon Race
Matthew Ruder1, Steve T. Jamison1, Adam Tenforde1, Marian Hannan1, Irene Davis, FACSM1. 2Spaulding National Running Center, Cambridge, MA. 3Institute for Aging Research, Hebrew SeniorLife, Boston, MA. (Sponsor: Irene Davis, FACSM) (No relationships reported)

491  Board #312  9:30 AM - 11:00 AM  500  Board #321  9:30 AM - 11:00 AM
Ground Reaction Forces During Running In Extreme Cushioning Running Shoes
Miles Mercer. University of Nevada, Las Vegas, Henderson, NV. (No relationships reported)

492  Board #313  9:30 AM - 11:00 AM  501  Board #322  9:30 AM - 11:00 AM
The Effect Of Speed, Incline, And Distance On Impacts During A Marathon Road Race
Steve T. Jamison1, Matthew C. Ruder1, Adam S. Tenforde1, Marian T. Hannan1, Irene S. Davis, FACSM1. 2Spaulding National Running Center, Cambridge, MA. 3Harvard University, Cambridge, MA. (Sponsor: Irene Davis, Ph.D, PT, FACSM, FACSM) (No relationships reported)

493  Board #314  9:30 AM - 11:00 AM  502  Board #323  9:30 AM - 11:00 AM
The Influence of Footwear on Running Mechanics, Impact, and Planter Loading in Habitual Rearfoot Strikers
Camden S. Marshall, William J. McDermott, James Walker. The Orthopedic Specialty Hospital, Murray, UT. (No relationships reported)

494  Board #315  9:30 AM - 11:00 AM  503  Board #324  9:30 AM - 11:00 AM
Six Week MFS Drill Training with Proprioceptive Resistance Device Influences Conversion of RFS to MFS
Connie Sol, Joseph F. Signorile, Afton D. Seeley. University of Miami, Coral Gables, FL. (Sponsor: Arlette C. Perry, Ph.D, FACSM) Email: consolfla@gmail.com (No relationships reported)

495  Board #316  9:30 AM - 11:00 AM  504  Board #325  9:30 AM - 11:00 AM
A Comparison Of The Effects Of Footstrike Striking And Cadence On Vertical Load Rates
Erin Futeh1, Douglas Gross1, Darcy Reisman2, Irene S. Davis, FACSM1. 2MGH Institute of Health Professions, Boston, MA. 3University of Delaware, Newark, DE. 4Harvard Medical School, Cambridge, MA. (Sponsor: Irene Davis, FACSM) Email: efuteh@mgmhhp.edu (No relationships reported)

496  Board #317  9:30 AM - 11:00 AM  505  Board #326  9:30 AM - 11:00 AM
Perturbing Stride Frequency Has No Effect On Average Muscle Activity
Andrew Craig-Jones, Joshua Bailey, Kendell Galor, John A. Mercer, FACSM. UNLV, Las Vegas, NV. (Sponsor: Dr. John A. Mercer, FACSM) (No relationships reported)

497  Board #318  9:30 AM - 11:00 AM  506  Board #327  9:30 AM - 11:00 AM
Does Preferred Running Velocity Vary with Variations in Running Condition?
Julia Freedman Silvernail, Miles Mercer. University of Nevada, Las Vegas, Las Vegas, NV. (Sponsor: John Mercer, FACSM) Email: jfs@unlv.edu (No relationships reported)

498  Board #319  9:30 AM - 11:00 AM  507  Board #328  9:30 AM - 11:00 AM
Decreased Metabolic Running Efficiency After One Week Of Practicing Improved Running Mechanics
Jacob Lee, 84058, Ashton Hudspeith, Ellis Jensen, 84058, FACSM. Utah Valley University, Orem, UT. (No relationships reported)

499  Board #320  Abstract Withdrawn

500  Board #321  9:30 AM - 11:00 AM  508  Board #329  9:30 AM - 11:00 AM
Effect of Running Speed on Achilles Tendon Injury Potential: Use of a Weighted Impulse Measure
Michael Baggaley, W. Brent Edwards. University of Calgary; Calgary, AB. (Sponsor: Joe Hamill, FACSM) Email: michael.baggaley1@ucalgary.ca (No relationships reported)

501  Board #322  9:30 AM - 11:00 AM  509  Board #330  9:30 AM - 11:00 AM
Risk Factors Associated With Foot Pain In Runners
Joseph Wassmer. University of Florida, Gainesville, FL. (Sponsor: Dr. Heather Vincent, FACSM) Email: wassejg@ortho.ufl.edu (No relationships reported)

502  Board #323  9:30 AM - 11:00 AM
Preliminary Analysis: Variability Between Healthy and Injured Individuals during Running
Amanda Estepp1, Steven Morrison1, Shane Caswell1, Jatin Ambegaonkar1. Nelson Cortes1. 2George Mason University, Manassas, VA. 3Old Dominion University, Norfolk, VA. Email: ncortes@gmu.edu (No relationships reported)

503  Board #324  9:30 AM - 11:00 AM  510  Board #331  9:30 AM - 11:00 AM
Is There a Predictable Value of the Drop Vertical Jump Test for Running Gait Injury Risk?
Ravi Kumar, 32611-2727, Trevor Leavitt, 32611-2727, Cong Chen, Heather K. Vincent, 32611-2727, FACSM, Daniel C. Herman, 32611-2727, FACSM. University of Florida, Gainesville, FL. (Sponsor: Heather K. Vincent PhD, FACSM) Email: rakumar@ufl.edu (No relationships reported)

504  Board #325  9:30 AM - 11:00 AM  511  Board #332  9:30 AM - 11:00 AM
Trunk Kinematics Displayed During Running By Individuals with Adolescent Idiopathic Scoliosis: A Pilot Study
Rumit S. Kakar1, Joshua Tome1, Tyler J. Dem-Thiele1, Jamie Kronenberg2, Kathy J. Simpson, FACSM1. 2Ithaca College, Ithaca, NY. 3University of Georgia, Athens, Athens, GA. (Sponsor: Kathy J. Simpson, FACSM) Email: rkakar@ithaca.edu (No relationships reported)

505  Board #326  9:30 AM - 11:00 AM  512  Board #333  9:30 AM - 11:00 AM
A Prospective Study on Medial Tibial Stress Syndrome in Runners
James Becker1, Mimi Nakajima1, Will Wu1. 2Montana State University, Bozeman, MT. 3California State University, Long Beach, Long Beach, CA. (No relationships reported)

www.acsm.org
### Board #327

9:30 AM - 11:00 AM

**Do Female Runners with Large Peak Hip Adduction Angles Lack Hip Strength and Control?**

Richard A. Brindle, Clare E. Milner, FACSM, Drexel University, Philadelphia, PA. (Sponsor: Clare Milner, FACSM)

Email: brindle@drexel.edu

(No relationships reported)

### Board #328

11:00 AM - 12:30 PM

**Assessment of Oxygen Deficit in Collegiate Runner during Steady State Exercise**

Mark E. Northuis, Rachael N. Webb, Cameron B. Jones. Hope College, Holland, MI. (Sponsor: Arthur S. Leon, FACSM)

Email: northuis@hope.edu

(No relationships reported)

### Board #329

11:00 AM - 12:30 PM

**Is There an Oxygen Pulse Threshold During Treadmill Running?**

Haley C. Bergstrom, Terri J. Housh, FACSM, Joel E. Eastman, FACSM.

Email: bergstrom@uky.edu

(No relationships reported)

### Board #330

11:00 AM - 12:30 PM

**Performance and Energy Balance during a 439 Mile Endurance Run**

Serina J. McEntire, Rebecca L. Stansberry, Dharini M. Bhammar, Sarah F. Thomas. Valdosta State University, Valdosta, GA. (Sponsor: Michael J. Webster, FACSM)

Email: sjmcentire@valdosta.edu

(No relationships reported)

### Board #331

11:00 AM - 12:30 PM

**Performance Changes in Consecutive Day Marathon Runners**

Austin C. Smith, Robert W. Boyce, FACSM, Elizabeth H. Seldomridge, Haley O. Norris, Glenn R. Jones, Michele A. Parker. University of North Carolina Wilmington, Wilmington, NC. (Sponsor: Dr. Michael Joyner, FACSM)

Email: lund0982@ummm.edu

(No relationships reported)

### Board #332

11:00 AM - 12:30 PM

**Standardized MET Overestimates Resting VO2 And Underestimates Energy Cost Of Running In Low Cardiorespiratory Fitness Men**

Grace A. MacDonald, Jeffrey Montes, Elizabeth A. Tanner, Nathanial G. Bodell, Jacob W. Manning, James W. Navalta, FACSM.

Email: jroberts@edinboro.edu

(No relationships reported)

### Board #333

11:00 AM - 12:30 PM

**Running Time In Young, Recreationally Active Women**

Fabrício Vasconcellos, Patrícia Vigário, Paulo Farinatti. (Sponsor: Prof. Lars Mc Naughton, FACSM)

Email: luke.krynski@mnnsa.edu

(No relationships reported)

### Board #334

11:00 AM - 12:30 PM

**Analysis of Critical Speed Derived from “All-Out” Shuttle and Continuous Running.**

Luke Krynski, Mark Kramer, Nicholas A. Jannick, Robert W. Pettit, FACSM. Minnesota State University, Mankato, Mankato, MN. (Sponsor: Robert Pettit, FACSM)

Email: luke.krynski@mnnsa.edu

(No relationships reported)

### Board #335

11:00 AM - 12:30 PM

**Marathon Training Improves Aerobic Capacity, Running Performance, and Reduces Body Fat in Men and Women**

Christopher J. Lundstrom, Austin M. Miller, Morgan R. Betker, Katelyn E. Uithoven, Eric M. Snyder. University of Minnesota, Minneapolis, MN. (Sponsor: Dr. Michael Joyner, FACSM)

Email: lund0982@ummm.edu

(No relationships reported)

### Board #336

11:00 AM - 12:30 PM

**The Effect Of ACTN3 Genotype On Self-reported One-mile Running Time In Young, Recreationally Active Women**

Christopher A. Martinez, Andreas Kreutzer, McKenzie Kreutzer, Jason D. Stone, Joel Mitchell, FACSM, Jonathan M. Oliver. (Sponsor: Joel Mitchell, FACSM)

Email: mcartinez27@tcu.edu

(No relationships reported)

### Board #337

11:00 AM - 12:30 PM

**A Mile Trail Run Can Predict Performance for a 5K Trail Race**

Grace A. MacDonald, Jeffrey Montes, Elizabeth A. Tanner, Nathanial G. Bodell, Jacob W. Manning, James W. Navalta, FACSM.

Email: jroberts@edinboro.edu

(No relationships reported)

### Board #338

11:00 AM - 12:30 PM

**Assessment of Oxygen Deficit in Collegiate Runner during Steady State Exercise**

Mark E. Northuis, Rachael N. Webb, Cameron B. Jones. Hope College, Holland, MI. (Sponsor: Arthur S. Leon, FACSM)

Email: northuis@hope.edu

(No relationships reported)

### Board #339

11:00 AM - 12:30 PM

**Pre-season Maximum Oxygen Uptake of Female Division III Cross-Country Runners**

Ana B. Freire Ribeiro, Darby R. Lindgren, Michael A. Kantor, Ali Kanani, Sophie E. Olson, Mark Blegen, FACSM.

Email: ribeiro@augsburg.edu

(No relationships reported)
Board #341  11:00 AM - 12:30 PM  An Evaluation of Time-Trial Based Predictions of VO2max and Recommended Training Paces For Collegiate and Recreational Runners
Eric M. Scudamore, Vaughn W. Barry, John M. Coons. Middle Tennessee State University, Murfreesboro, TN. (Sponsor: J. Matt Green, FACSM)
Email: eric.scud@gmail.com
(No relationships reported)

Board #342  11:00 AM - 12:30 PM  Effects of Footwear on Running Economy and Preferred Foot Strike Pattern in Collegiate Distance Runners
Donovan S. Conley, FACSM1, Shane A. Warehime2, Kevin L. Hill2, Tammy K. Evtovitch, FACSM1. 1Wayne State College, Wayne, NE. 2University of Nebraska Omaha, Omaha, NE.
(No relationships reported)

Board #343  11:00 AM - 12:30 PM  Decreasing Total Training Time Efficient In Improving Speed and Aerobic Cost in Competitive Runners
(No relationships reported)

Board #344  11:00 AM - 12:30 PM  Effect of Short-term Altitude Training on Sprint Running Performance
Yasuhiro Suzuki1, Hirohiko Maemura2, Toshiyuki Ohya3, Masahiro Hagiwara1. 1Japan Institute of Sports Sciences, Kita-ku, Tokyo, Japan. 2International Pacific University, Okayama, Japan.
Email: yasuhirosuzuki@jipsport.go.jp
(No relationships reported)

Board #345  11:00 AM - 12:30 PM  The Effects of a Medicine Ball Training Program on Running Economy
Veronica Rasici, Kyle L. Timmerman, Julie M. Cousins. Miami University, Oxford, OH. (Sponsor: Helaine Alessio, FACSM)
Email: rasicerv@miamioh.edu
(No relationships reported)

Board #346  11:00 AM - 12:30 PM  Effects of Replacing Run Training with Elliptical Bicycle Training in Experienced Runners
Jordan Oddis. Ohio University, Athens, OH.
(No relationships reported)

Board #347  11:00 AM - 12:30 PM  Improvement in 3200-m Running Performance following Acute Inspiratory Muscle Training
Allie Ludge, Kyle Barnes. Grand Valley State University, Allendale, MI.
Email: barnesk@gvsu.edu
(No relationships reported)

Board #348  11:00 AM - 12:30 PM  Body Composition, Bone Density, Metabolic Rate and Dietary Intakes of Collegiate Synchronized Swimmers
Paula Borges Costa, Bradley T. Gieske, Richard A. Stecker, Charles R. Smith, Kyle E. Witherbee, Kimi M. Peterson, Scott R. Richmond, Kathryn A. Tesser, Chad M. Kerksick, FACSM. Lindenwood University, St. Charles, MO.
(No relationships reported)

Board #349  11:00 AM - 12:30 PM  Gender Differences in Water-Based Aerobic Capacity During Freestyle Swimming to Exhaustion
Takashi Nagai1, Anne Z. Beethe1, Christopher Connaboy2, Mita T. Lovalekar1, John P. Abt, FACSM1, Elizabeth F. Nagle, FACSM2, Scott M. Lephart, FACSM3. 1University of Pittsburgh, Pittsburgh, PA. 2University of Kentucky, Lexington, KY. (Sponsor: Elizabeth F. Nagle, FACSM)
Email: tnagai@pitt.edu
(No relationships reported)

Board #350  11:00 AM - 12:30 PM  Gender Differences In Mean And Peak Swimming Force, Validity, Reliability, Of A Tethered Swimming Test
Jacquelyn Nagle1, Elizabeth Nagle, FACSM2, Takashi Nagai2, Mita Lovlekar3, Christopher Connaboy2, John Abt, FACSM4, Scott Lephart, FACSM1, Scott Lephart, FACSM2. 1John Carroll University, University Heights, OH. 2University of Pittsburgh, Pittsburgh, PA. 3University of Kentucky, Lexington, KY.
Email: jnagle@jcu.edu
(No relationships reported)

Board #351  11:00 AM - 12:30 PM  Reliability and Validity of Swimming Pool Protocol to Measure Maximal Aerobic Power of Healthy Adults
Elizabeth F. Nagle, FACSM1, Takashi Nagai1, Anne Beethe1, Mita T. Lovalekar1, Jacqelyn A. Nagle-Zera2, Christopher Connaboy2, John P. Abt, FACSM4, Robert J. Robertson, FACSM4, Scott M. Lephart, FACSM1. 1Univ. of Pittsburgh, Pittsburgh, PA. 2John Carroll University, Cleveland, OH. 3University of Kentucky, Lexington, KY.
Email: jnagle@jcu.edu
(No relationships reported)

Board #352  11:00 AM - 12:30 PM  Empirical Model Of Lane Bias Suggests Different Finish Order At 2016 Olympic Swimming Competition
Chris Brammer1, Andrew Cornett2, Joel Stager, FACSM1. 1Indiana University, Bloomington, IN. 2Eastern Michigan University, Ypsilanti, MI. (Sponsor: Joel Stager, FACSM)
Email: brammere@indiana.edu
(No relationships reported)

Board #353  11:00 AM - 12:30 PM  Maturational Timing and Performance in Collegiate Female Swimmers
Andrew C. Cornett1, Alan Duski1, Sierra Wagner1, Samantha White1, Brian Wright1, Joel Stager, FACSM1. 1Eastern Michigan University, Ypsilanti, MI. 2DePauw University, Greencastle, IN. 3Indiana University, Bloomington, IN. (Sponsor: Joel Stager, FACSM)
Email: acornet2@emich.edu
(No relationships reported)

Board #354  11:00 AM - 12:30 PM  Age-associated Changes In Training Volume And Athletic Performance: Cross-sectional and Longitudinal Analyses of Masters Swimmers
Stephanie Lapierrre, Brett Baker, Hirofumi Tanaka, FACSM. The University of Texas at Austin, Austin, TX. (Sponsor: Hirofumi Tanaka, FACSM)
Email: stephlapiere@utexas.edu
(No relationships reported)

Board #355  11:00 AM - 12:30 PM  Associations between Land-Based Laboratory Measures and Freestyle Swimming Performance: A Comparison between Males and Females
Anne Z. Beethe1, Elizabeth Nagle, FACSM1, Christopher Connaboy2, Mita T. Lovalekar1, John Abt, FACSM4, Takashi Nagai2, Scott M. Lephart, FACSM4. 1University of Pittsburgh, Pittsburgh, PA. 2University of Kentucky, Lexington, KY. (Sponsor: Elizabeth Nagle, FACSM)
(No relationships reported)
WEDNESDAY, MAY 31, 2017

535  Board #356  11:00 AM - 12:30 PM
Predicting Performance: The use of Nonlinear Regression Models to Predict Olympic Performance in Swimmers
Joel T. Greenshields, Joel M. Stager, FACSM. Indiana University, Bloomington, IN. (Sponsor: Joel Stager, FACSM)
Email: jtgreens@indiana.edu
(No relationships reported)

536  Board #357  11:00 AM - 12:30 PM
Nutrition and Physiological Recovery in Smith College Swimmers
Devi Dearmon-Moore, 01063. Smith College, Northampton, MA.
(No relationships reported)

537  Board #358  11:00 AM - 12:30 PM
Role of Dryland Resistance Training on Musculoskeletal Injuries and Healthcare Costs in Masters Swimmers
Brett Baker, Stephanie Lapiere, Hirofumi Tanaka, FACSM. The University of Texas at Austin, Austin, TX. (Sponsor: Hirofumi Tanaka, FACSM)
Email: brett.baker@utexas.edu
(No relationships reported)

538  Board #359  11:00 AM - 12:30 PM
Ergogenicity Of Inspiratory Muscle Training Is Affected By Weekly Training Distance In Swimmers
Mitch Lomax1, Jernej Kapas2, Peter Brown1, Mark Faghy3. 1University of Portsmouth, Portsmouth, United Kingdom. 2University of Ljubljana, Ljubljana, Slovenia. 3English Institute of Sport, Longbourn, United Kingdom. 4University of Derby, Derby, United Kingdom.
Email: mitch.lomax@port.ac.uk
(No relationships reported)

539  Board #360  11:00 AM - 12:30 PM
Muscle Damage, Soreness And Stress Over 6-weeks Of Pre-season Training In Ncaa D1 Male Swimmers
Mario Rusnak1, Melissa VanderMeulen1, Brigid Byrd1, Gregory Byrd1, Raychel Rusnak1, Tamara Hew-Butler, FACSM1. 1Oakland University, Rochester, MI. 2Wayne State University, Detroit, MI. 3Michigan State University College of Osteopathic Medicine, East Lansing, MI. (Sponsor: Tamara Hew-Butler, FACSM)
Email: mrusnak@oakland.edu
(No relationships reported)

540  Board #361  11:00 AM - 12:30 PM
Muscle Damage, Soreness, And Stress Over 7-weeks Of Pre-season Training In Ncaa Female Swimmers
Melissa VanderMeulen1, Mario Rusnak1, Brigid Byrd1, Gregory Byrd1, Raychel Rusnak1, Tamara Hew-Butler, FACSM1. 1Oakland University, Rochester, MI. 2Wayne State University, Detroit, MI. 3Michigan State University College of Osteopathic Medicine, East Lansing, MI. (Sponsor: Tamara Hew-Butler, FACSM)
Email: mvander@oakland.edu
(No relationships reported)

541  Board #362  11:00 AM - 12:30 PM
Strength Of Shoulder Rotators After A Swimming-training (inside And Outside Of The Pool) And Detraining
(No relationships reported)

542  Board #363  11:00 AM - 12:30 PM
The Influence of an Educational Intervention on Hydration Status in Collegiate Swimmers.
Kelley Holmes1, David Bacharach, FACSM1. 1University of Minnesota Duluth, Duluth, MN. 2St. Cloud State University, St. Cloud, MN. (Sponsor: John Keener, FACSM)
Email: holmesk@d.umn.edu
(No relationships reported)
Exercise intolerance is the “hallmark” of heart failure and maximum oxygen uptake is a key predictor of morbidity and the need for cardiac transplantation. This symposium will focus on the physiologic mechanisms associated with exercise intolerance present in this complex syndrome including: 1) perturbations in skeletal muscle blood flow & oxygen uptake kinetics; 2) associated reductions in convective and diffusive oxygen transport; and 3) differences between heart failure with preserved (HFpEF) versus reduced (HFrEF) ejection fraction. In addition, this symposium will examine the use of exercise training and other modalities in treating heart failure with an emphasis on differences between HFpEF and HFrEF populations.

**B-01 Highlighted Symposium - Exercise Limitations in Heart Failure**

**Wednesday, May 31, 2017, 1:00 PM - 3:00 PM**

**Room: 302**

Chair: Timothy Musch, FACSM. Kansas State University, Manhattan, KS.
(No relationships reported)

**1:05 PM - 1:30 PM**

Mechanisms of Exercise Intolerance in Heart Failure
David C. Poole, FACSM. Kansas State University, Manhattan, KS.
(No relationships reported)

**1:30 PM - 1:55 PM**

Convective and Diffusive Oxygen Transport in Heart Failure: Partitioning the Contributors to Exercise Intolerance
Russell S. Richardson. University of Utah, Salt Lake City, UT.
(No relationships reported)

**1:55 PM - 2:20 PM**

Pathophysiology of Exercise Intolerance in Heart Failure with Preserved versus Reduced Ejection Fraction
Mark Haykowsky. University of Texas-Arlington, Arlington, TX.
(No relationships reported)

**2:20 PM - 2:45 PM**

Effects of Exercise Training on Exercise Intolerance in the Treatment of Heart Failure
Daniel M. Hirai. Kansas State University, Manhattan, KS.
(No relationships reported)

**2:45 PM - 3:00 PM**

Overall Discussion

**B-02 Symposium - Interrogation of Mitochondrial Function from the Organelle to the Whole Body**

**Wednesday, May 31, 2017, 1:00 PM - 3:00 PM**

**Room: 607**

The oxidative system resides within the mitochondrial reticulum of cells. The operational details of oxidative phosphorylation are quite complicated and not fully understood. The purpose of this symposium is to present information gleaned from the subcellular to the whole body integrative level of function. Specifically, the following systems of investigation will be discussed: 1) energetics of isolated mitochondria, 2) structure of the mitochondrial reticulum, 3) mitochondrial function from the whole skeletal muscle perspective, and 4) interrogation of mitochondrial function in the intact human. This symposium will appeal to a broad audience from basic scientists to those with applied interests.

**B-03 Symposium - Minds Matter: Comprehensive Concussion Care and Rehabilitation**

**Wednesday, May 31, 2017, 1:00 PM - 3:00 PM**

**Room: 603**

This symposium will cover the latest developments in the diagnosis, management and rehabilitation of concussion from acute injury through recovery and rehabilitation. The rationale for clinical management from injury to recovery, including rehabilitation, will be reviewed. Enhanced gait and balance assessment utilizing dual task testing paradigms and comprehensive visual oculomotor assessment will be discussed. The approach to concussion evaluation and treatment is changing from a passive to an active one. Comprehensive rehabilitation strategies to address vestibulo-oculomotor, balance/gait and visual deficits will be presented, including the important role of aerobic exercise in the recovery from concussion.
### B-04 Symposium - Update on Low Carbohydrate High Fat - Help or Hindrance for Sports Performance in Competitive Athletes?

**Wednesday, May 31, 2017, 1:00 PM - 3:00 PM**  
**Room:** Belco Theatre 1

In 1983, Phinney and colleagues published a paper reporting that well-trained cyclists could adapt, following a 4 week ketogenic Low Carbohydrate High fat (LCHF) diet, such that their capacity to complete moderate intensity cycling was matched to that on a more traditional carbohydrate-rich athlete’s diet. Interest in the LCHF for sports performance has waxed and waned since then, but is currently experiencing a wave of promotion and popularity. This session will look at keto-adaptation to a very low carbohydrate diet to answer the question of when and if it can be of benefit to the performance of competitive athletes.

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Presenter</th>
<th>Institution</th>
<th>Relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>558</td>
<td>1:00 PM - 1:05 PM</td>
<td>Chair: Louise M. Burke, FACSM. Australian Institute of Sport, Canberra, Australia. (No relationships reported)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>559</td>
<td>1:05 PM - 1:30 PM</td>
<td>Steve Phinney, UC Davis, Elk Grove, CA. (No relationships reported)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>560</td>
<td>1:30 PM - 1:55 PM</td>
<td>Lawrence L. Spriet, FACSM. University of Guelph, Guelph, ON, Canada. (No relationships reported)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>561</td>
<td>1:55 PM - 2:20 PM</td>
<td>Trent Stellingwerf, FACSM. Canadian Sport Institute Pacific, Victoria, BC, Canada. (No relationships reported)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>562</td>
<td>2:20 PM - 2:45 PM</td>
<td>Louise M. Burke, FACSM. Australian Institute of Sport, Canberra, Australia. (No relationships reported)</td>
<td></td>
<td></td>
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</tbody>
</table>

### B-05 Exercise is Medicine® - Highlighted Symposium - Sport and Physical Activity for Children and Adolescents: Translating Science to Clinical Medicine and Public Health

**Wednesday, May 31, 2017, 1:00 PM - 3:00 PM**  
**Room:** Hotel-Centennial Ballroom D

This sessions will summarize approaches rooted in implementation science to support and enable better integration of physical activity, exercise and sports in the continuum of care for children and adolescents.

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Presenter</th>
<th>Institution</th>
<th>Relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>563</td>
<td>1:00 PM - 1:05 PM</td>
<td>Chair: Felipe Lobelo, Emory University, Atlanta, GA. (No relationships reported)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>564</td>
<td>1:05 PM - 1:30 PM</td>
<td>Physical Activity/Fitness, Brain and Cognition</td>
<td>Charles H. Hillman, Northeastern University, Boston, MA. (No relationships reported)</td>
<td></td>
</tr>
</tbody>
</table>

### B-06 Exercise is Medicine® - Symposium - The Role of Exercise in Cancer-related Cognitive Impairment

**Wednesday, May 31, 2017, 1:00 PM - 3:00 PM**  
**Room:** Hotel-Centennial Ballroom A

An estimated 60-75% of cancer survivors experience Cancer-Related Cognitive Impairment (CRCI). CRCI is observed as subjective cognitive impairment (patient-reported outcomes), objective cognitive impairment (neuropsychological assessments), and changes in brain structure (MRI) and brain activity (fMRI, EEG). Exercise is well established in benefiting cognitive performance, brain structure, and brain activity, and is positioned to play a promising, rehabilitative role in CRCI. For the field to progress, future research must address potential mediators and moderators of the exercise-CRCI relationship (e.g., cancer/treatment type, exercise prescription) as well as determine relationships between outcomes (e.g., subjective impairment, objective impairment, brain structure, brain function).

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Presenter</th>
<th>Institution</th>
<th>Relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>565</td>
<td>1:30 PM - 1:55 PM</td>
<td>Chair: Aaron Piepmeier. University of North Carolina, Chapel Hill, Chapel Hill, NC. (No relationships reported)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>566</td>
<td>1:55 PM - 2:20 PM</td>
<td>Cancer-related Cognitive Impairment: How it's Measured and How Research is Being Translated into Clinical Fronts</td>
<td>Jeffrey S. Wefel. The University of Texas MD Anderson Cancer Center, Houston, TX. (No relationships reported)</td>
<td></td>
</tr>
<tr>
<td>567</td>
<td>2:20 PM - 2:45 PM</td>
<td>The Mechanisms of Cancer-related Cognitive Impairment and what Neuroimaging can Tell Us</td>
<td>Andra Smith. University of Ottawa, Ottawa, ON, Canada. (No relationships reported)</td>
<td></td>
</tr>
<tr>
<td>568</td>
<td>1:00 PM - 1:05 PM</td>
<td>Exercise &amp; Cognition: The Potential Role of Exercise in Cancer-related Cognitive Impairment</td>
<td>Teresa Liu-Ambrose. University of British Columbia, Djavad Mowafaghian Centre for Brain Health, Vancouver, BC, Canada. (No relationships reported)</td>
<td></td>
</tr>
<tr>
<td>569</td>
<td>1:05 PM - 1:30 PM</td>
<td>Combining Two Worlds: Human and Animal Studies of Exercise and CRCI - Emerging Evidence and Next Steps</td>
<td>Kristin Campbell. University of British Columbia, Vancouver, Canada. (No relationships reported)</td>
<td></td>
</tr>
<tr>
<td>570</td>
<td>1:30 PM - 1:55 PM</td>
<td>Physical Activity/Fitness, Brain and Cognition</td>
<td>Charles H. Hillman, Northeastern University, Boston, MA. (No relationships reported)</td>
<td></td>
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<tr>
<td>571</td>
<td>1:55 PM - 2:20 PM</td>
<td>Chair: Felice Dams, University of British Columbia, Vancouver, BC, Canada. (No relationships reported)</td>
<td></td>
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<tr>
<td>572</td>
<td>2:20 PM - 2:45 PM</td>
<td>Overall Discussion</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
B-07  Thematic Poster - Cardiac Physiology
Wednesday, May 31, 2017, 1:00 PM - 3:00 PM
Room: 304

Chair: Serge P. von Duivillard, FACSM. University of Salzburg, St. Cloud, MN. (No relationships reported)

Board #1
1:00 PM - 3:00 PM
Associations Of Heart Rate Variability Measured During Orthostatic Test And During Daily Routine Activities
Ricardo Mesquita1, Heikki Kyröläinen, FACSM,2 Daniela S. Obstad.1
1 University of Jyväskylä, Jyväskylä, Finland. 2 Polar Electro Oy, Kempele, Finland.
Email: monesquita@hotmail.com (No relationships reported)

Board #2
1:00 PM - 3:00 PM
The Relationship Between Lifelong Exercise Volume and Coronary Atherosclerosis
Vincent L. Aengevaeren1, Arend Mosterd2, Thijs L. Braber3, Nick HD Frakkert, Paul D. Thompson, FACSM,4 Thijs MH Eijsvogels5, Birgitta K. Velthuis6.1 Radboud University Medical Center, Nijmegen, Netherlands. 2 Meander Medical Center, Amersfoort, Netherlands. 3 University Medical Center Utrecht, Utrecht, Netherlands. 4 University Medical Center Groningen, Groningen, Netherlands. 5 University of Hartford, Hartford, CT. 6 Liverpool John Moores University, Liverpool, United Kingdom.
Email: vincent.aengevaeren@radboudumc.nl (No relationships reported)

Board #3
1:00 PM - 3:00 PM
High Intensity Interval Training in a Rat Model of Severe, Angioproliferative Pulmonary Arterial Hypertension
Mary Beth Brown1, Gary Long1, Andrea Frump2, Andrew Wiseman1, Mary Beth Brown1, Gary Long1, Andrea Frump2, Andrew Wiseman1
1 University of North Carolina, Chapel Hill, NC. 2 University of Illinois Chicago, Chicago, IL. (No relationships reported)

Board #4
1:00 PM - 3:00 PM
The Impact of Menopausal Status on Cardiac Responses to Exercise Training and Acute Moderate Intensity Exercise
Amanda Q.X. Nio, Eric J. Stöhr, Samantha Rogers, Rachel Mynors-Wallis, Jane M. Black, Rob Shave. Cardiff Metropolitan University, Cardiff, United Kingdom.
Email: amnio@cardiffmet.ac.uk (No relationships reported)

Board #5
1:00 PM - 3:00 PM
Assessment Of Myocardial Mechanics In Renal Transplant Recipients Using Speckle Tracking Echocardiography
Gianni Pedrizzetti1, Laura Stefani2, Stefano Pedri2, Enrico Minetti4, Benedetta Tos1, Giorgio Galanti2.1 University of Trieste - Italy, Trieste, Italy. 2 University of Salerno - Italy. 3 University of Palermo - Italy. 4 University of Salzburg, Salzburg, Austria. (No relationships reported)

Board #6
1:00 PM - 3:00 PM
Non-targeted Metabolomics Identifies Exercise-induced Cardioprotective Metabolic Pathways That Negate Ischemia-Reperfusion Injury.
Traci L. Parry1, Joseph W. Starnes, FACSM2, Amro Ihaivy1, James R. Bain1, Mike J. Thuillez3, Aubree Honcoop2, Christopher A. Newgard4, Peter Christopher5, Monte S. Willis6.1 University of North Carolina, Chapel Hill, NC. 2 University of North Carolina, Greensboro, NC. 3 Duke, Durham, NC. (Sponsor: Joseph Starnes, FACSM)
Email: traci.parry@med.unc.edu (No relationships reported)

B-08  Thematic Poster - Exercise, Obesity, and Diabetes
Wednesday, May 31, 2017, 1:00 PM - 3:00 PM
Room: 404

Chair: Ann M. Swartz, FACSM. University of Wisconsin-Milwaukee, Milwaukee, WI. (No relationships reported)

Board #1
1:00 PM - 3:00 PM
Maximal Fat Oxidation: Optimal Exercise Intensity for Weight Management and Its Dissociation from Anaerobic Threshold
Livia P. Carvalho1, Renata G. Mendes2, Luciana Di Thommasso-Luporini3, Renata P. Basso-Vanelti4, Paula A. Ricci5, José C. Bonjorno-Junior1, Rafael L. Luporini6, Cláudio R. Oliveira7, Renata Trímer1, Shane A. Phillips5, Ross Arena5, Audrey Borghi-Silva6, 1 Universidade Federal de Sao Carlos, Sao Carlos, Brazil. 2 University of Illinois Chicago, Chicago, IL. Email: livia.pinho.carvalho@gmail.com (No relationships reported)

Board #2
1:00 PM - 3:00 PM
The Combined Effects Of Regular Activity Breaks And Physical Activity On Postprandial Metabolism
Email: meredith.peddie@otago.ac.nz (No relationships reported)

Board #3
1:00 PM - 3:00 PM
Influence of Aerobic Exercise on Ghrelin-o-Acyltransferase in Normal Weight and Obese Adults: A Pilot Study
Email: mlb425@drexel.edu (No relationships reported)

Board #4
1:00 PM - 3:00 PM
Two Weeks of Interval Training Improves Metabolic Flexibility and Glucose Tolerance in People with Prediabetes
Nicole M. Gilbertson, Natalie ZM Eichner, Jacobelyn R. Moxey, Julian M. Gaitan, Zhenqi Liu, Eugene J. Barrett, Arthur Weltman, FACSM, Steven K. Malin. University of Virginia, Charlottesville, VA. (Sponsor: Robert Ross, FACSM)
Email: rmg4k@virginia.edu (No relationships reported)

Board #5
1:00 PM - 3:00 PM
Rate of Response in Insulin and Glucose Measures to Different Exercise Amounts and Intensities
Louise de Lannoy, John Clarke, Paula Stotz, Robert Ross, FACSM. Queen’s University, Kingston, ON, Canada. (Sponsor: Robert Ross, FACSM)
Email: l3dl2@queensu.ca (No relationships reported)

Board #6
1:00 PM - 3:00 PM
Interventions to Change Physical Activity Behavior in Type 2 Diabetes: A Systematic Review and Meta-analysis
Marjan Mosalman Haghighi, Yorgi Mavros, Maria A. Fiatarone Singh. The University of Sydney, Sydney, Australia. (Sponsor: Professor Glen Davis, FACSM)
Email: mmos4344@uni.sydney.edu.au (No relationships reported)
Board 75 1:00 PM - 3:00 PM  
Power Training In Older Adults With Type 2 Diabetes; Outcomes From The Great2do Study.
Guy Wilson1, Yorgi Mavros1, Shelley Kay1, David Simar2, Kylie Simpson1, Michael Baker1, Yi Wang1, Renru Zhao1, Jacinda Meiklejohn1, Nathan De Vos3, Mike Clinstein, FACSM1, Anthony O’Sullivan1, Bernhard Baume1, Steven Blair, FACSM1, Nalin Singh1, Maria Fataorraine1. 1University of New South Wales, Sydney, Australia. 2University of New South Wales, Sydney, Australia. 3University of California, California, CA. 1Balmain Hospital, Sydney, Australia. 2University of New South Wales, Sydney, Australia. 3University Of Adelaide, Adelaide, Australia. 1University of South Carolina, Columbia, SC. 2University Of Adelaide, Adelaide, Australia. 3University Of South Carolina, Columbia, SC.  (Sponsor: Mike Clinstein, FACSM)  Email: guy.wilson@sydney.edu.au  (No relationships reported)

Board 86 1:00 PM - 3:00 PM  
Randomized Controlled-Trial of Milk and High-Intensity Interval Training on Metabolic Health in Type 2 Diabetes.
Monique E. Francois, Cody Durrer, Jonathan P. Little. 1University of California, San Francisco, CA.  (Sponsor: Mike Climstein, FACSM)  Email: kmfritz@uga.edu  (No relationships reported)

Board 17 1:00 PM - 3:00 PM  
Leisure Time Physical Activity Among U.S. Adults with Elevated Symptoms of Attention Deficit Hyperactivity Disorder.
Kathryn Fritz, 30606, Ashlyn Powell, Patrick J. O’Connor, FACSM. 1University of Central Florida, Orlando, FL. 2University of Wisconsin-Madison, Madison, WI. 3Iowa State University, Ames, IA. 2University Of Wisconsin-Madison, Madison, WI. 3University Of Wisconsin-Madison, Madison, WI.  (Sponsor: Patrick O’Connor, FACSM)  Email: kmfritz@uga.edu  (No relationships reported)

Board 28 1:00 PM - 3:00 PM  
Effects Of Aerobic Exercise Intensity On Acute Serum Levels Of Bdnf In Patients With Depression.
Jorn Heggelund1, Ole Christian Mehlum2, Andreas Brabrand1, Mona Nygaard1, Einar Vehul-Kjæsaa1, Ismail Cüneyt Gürey1, 1St. Olaas University Hospital, Trondheim, Norway. 2Norwegian University of Science and Technology, Trondheim, Norway. 3Email: jorn.heggelund@omu.no  (No relationships reported)

Board 39 1:00 PM - 3:00 PM  
The Effects of Exercise Training on Anxiety in Fibromyalgia Patients: A Quantitative Synthesis.
Cillian P. McDowell1, Dane B. Cook, FACSM1, Matthew P. Herring1. 1University of Limerick, Limerick, Ireland. 2University of Wisconsin, Madison, WI.  (Sponsor: Dr Dane Cook, FACSM)  Email: cillian.mcdowell@u.wi.edu  (No relationships reported)

Board 410 1:00 PM - 3:00 PM  
Comparison Of Physical Activity And Sports Participation In Children With And Without Autism Spectrum Disorder.
Jeanette M. Garcia1, Kayla M. Baker1, David J. Rice1, Sean Healy1, 1University of Central Florida, Orlando, FL. 2Florida Southern College, Lakeland, FL. 3Humboldt State University, Arcata, CA.  (Sponsor: Dr. Dane Cook, FACSM)  Email: jeanette.garcia@ucf.edu  (No relationships reported)

ACSM 64th Annual Meeting

Board 5 1:00 PM - 3:00 PM  
Exercise Induced Analgesia in Survivors of Cancer.
Briana Clifford1, Benjamin Barry2, David Simar2, David Goldstein2. 1University of New South Wales, Sydney, Australia. 2Prince of Wales Hospital, Sydney, Australia.  (No relationships reported)

Board 6 1:00 PM - 3:00 PM  
Physical Activity and Brain Responses during Pain Modulation in Gulf Veterans with Chronic Muscle Pain.
Aaron J. Stengel1, Laura D. Ellingson1, Stephanie M. Van Riper1, Dane B. Cook, FACSM1, University of Wisconsin-Madison, Madison, WI. 2Iowa State University, Ames, IA. 3William S. Middleton Memorial Veterans Hospital, Madison, WI. 4University of Wisconsin-Madison, Madison, WI. 5University Of Wisconsin-Madison, Madison, WI.  (Sponsor: Dane B. Cook, FACSM)  Email: matthew.herring@sal.ie  (No relationships reported)

Board 7 1:00 PM - 3:00 PM  
Associations Between Physical Activity, Flourishing, Bullying And Emotional Difficulties In Children Autism.
Stephanie M. McCoy, Joann Judge. 1University of Southern Mississippi, Hattiesburg, MS.  (No relationships reported)

Board 8 1:00 PM - 3:00 PM  
Acute Exercise Effects on Mood Among Young Adults with Worry Symptoms Indicative of Generalized Anxiety Disorder.
Matthew P. Herring1, Mats Hallgren1, Mark J. Campbell1. 1University of Limerick, Limerick, Ireland. 2Karolinska Institutet, Stockholm, Sweden.  Email: matthew.herring@sal.ie  (No relationships reported)

Board 9 1:00 PM - 3:00 PM  
Using Accelerometry To Measure Physical Activity Opportunities During The School Day In Rural Elementary Schools.
Evan Hilberg1, Patrick Abi Nader2, John M. Schuna, Jr1, Deborah John1, Katherine B. Gunter, FACSM1, Oregon State University, Corvallis, OR. 1Université de Moncton, Moncton, NB, Canada. 2University Of Wisconsin-Madison, Madison, WI.  (Sponsor: Katherine Gunter, FACSM)  Email: kgunter@wisc.edu  (No relationships reported)

Board 10 1:00 PM - 3:00 PM  
Infancy Weight Gain And Fat Mass In Youth- Does Physical Activity Modify The Association?
Guro P. Bernhardsen, Trine Stensrud, Ulf Ekelund, FACSM1. 1University of Limerick, Limerick, Ireland. 2Karolinska Institutet, Stockholm, Sweden. 3University of Oslo, Oslo, Norway. 4Norwegian University of Science and Technology, Trondheim, Norway. 5Trondheim, Norway.  (Sponsor: Dr Jostein Steene, University Of Western Australia, Moncton, NB, Canada.)  Email: g.p.bernhardsen@nih.no  (No relationships reported)

Board 11 1:00 PM - 3:00 PM  
Physical Activity And Markers Of Inflammation In Children.
Runar Solberg1, Sigmund Alfred Andersen, FACSM1, Elin Kolle1, Ulf Ekelund, FACSM1, Kristian Stene-Johannessen1. 1Norwegian School of Sports Sciences, Oslo, Norway. 2Kristiania Universitet College, Norwegian School of Sports Sciences, Oslo, Norway. 3St. Paul’s College, University of North Carolina, Charlotte, NC.  (Sponsor: Dr Jostein Steene, University Of Western Australia, Moncton, NB, Canada.)  Email: runar.barstad.solberg@gmail.com  (No relationships reported)
Board #5 1:00 PM - 3:00 PM
High And Low Impact Physical Activity Substitution And Pedal Bone Density
Jonathan A. Mitchell1, Diana L. Cousminar2, Alessandra Chesi3, Shana E. McCormack1, Heidi J. Kalkwarf1, Joan M. Lappe1, Vicente Gilsanz2, Sharon E. Oberfield3, John A. Shepherd2, Andrea Kelly2, Struan Fa Grant1. 1Children's Hospital of Philadelphia, Philadelphia, PA. 2Children's Hospital of the King's Daughters Medical Center, Norfolk, VA. 3Children's Hospital of Philadelphia, Philadelphia, PA. 4Children's Hospital of Connecticut, New Haven, CT. 5Children's Hospital of Philadelphia, Philadelphia, PA. 6Children's Hospital of Los Angeles, Los Angeles, CA. 7Columbia University Medical Center, New York, NY. 8University of California San Francisco, San Francisco, CA. Email: mitchellj2@email.chop.edu
(No relationships reported)

Board #6 1:00 PM - 3:00 PM
Sedentary Time and Anthropometric Characteristics Among Hispanic Children in Puerto Rico
Marcos A. Amealbert-Birriel1, Lucia del R Martínez-Colón1, Marta I. Amalar-Figueroa1, Farah A. Ramírez-Marrero1, FACSM. University of Puerto Rico, Rio Piedras Campus, San Juan, PR. Email: marcos.aamilbert@upr.edu
(No relationships reported)

Board #7 1:00 PM - 3:00 PM
Longitudinal Changes in Normalized Grip Strength is Associated with Cardiometabolic Health Maintenance and Improvement among Adolescents.
Mark D. Peterson1, FACSM, Sonja Smelde1, Paul Vischi1, Paul Gordon1. 1University of Michigan, Ann Arbor, MI. 2Baylor University, Waco, TX. 3University of New England, Biddeford, ME. Email: mdpeterson@umich.edu
(No relationships reported)

Board #8 1:00 PM - 3:00 PM
Physical Activity Bout Patterns From Childhood Through Adolescence: NHANES 2003-2006
David A. White1, Erik A. Willis1, Kimberly J. Reid1. 1The Children's Mercy Hospital, Kansas City, MO. 2National Cancer Institute, Bethesda, MD. Email: dawhite@cmh.edu
(No relationships reported)

B-11 Thematic Poster - Landing Biomechanics
Wednesday, May 31, 2017, 1:00 PM - 3:00 PM
Room: 101

Chair: Kevin R. Ford, FACSM. High Point University, High Point, NC. Email: dawhite@cmh.edu
(No relationships reported)

Board #1 1:00 PM - 3:00 PM
The Role of the Midtarsal Joint in Drop Landings
Dustin A. Bruening1, Mark T. Olsen2, A. Wayne Johnson, Sarah T. Ridge2. 1Brigham Young University, Provo, UT. Email: dabruening@byu.edu
(No relationships reported)

Board #2 1:00 PM - 3:00 PM
Effects of Achilles Tendon Taping on Joint Energetics in Jumping and Landing
Evan McConnell1, Philip Hernandez1, Robin Queen, FACSM. Virginia Tech, Blacksburg, VA. (Sponsor: Robin Queen, FACSM) Email: mevan6@vt.edu
(No relationships reported)

Board #4 1:00 PM - 3:00 PM
Landing Patterns of Collegiate Female Volleyball Players During Practice and Game Competition
Jenny L. Kantor1, Steven L. Dischiavi1, Thomas J. Hockenjos2, Jeffrey B. Taylor1. 1High Point University, High Point, NC. (Sponsor: Dr. Kevin R. Ford, FACSM) Email: jytaylor@highpoint.edu
(No relationships reported)

Board #5 1:00 PM - 3:00 PM
Influence of Hip Extension Strength on Landing Biomechanics In Collegiate Basketball Players
Connor R. Whicker1, Jeffrey B. Taylor1, Emma F. Zuk1, Kevin R. Ford1, FACSM. Anti-Dung Nguyen1. 1High Point University, High Point, NC. 2Catholic University of America, Washington, DC. Email: whickey14@highpoint.edu
(No relationships reported)

Board #6 1:00 PM - 3:00 PM
The Changes in Impacts and Soft-tissue Responses of Lower Limbs between Active and Unanticipated Landings
Shen Zhang1, Weijie Fu1, Yu Liu1. Shanghai University of Sport, Shanghai, China. Email: zhangshen0708@163.com
(No relationships reported)

Board #7 1:00 PM - 3:00 PM
Effect of Different Sports on Hip and Knee Biomechanics in Adolescent Females During a Jump-Landing
Kelci B. Besand1, James M. Bothwell1, J Craig Garrison1, Joseph P. Hannon1, Shiho Goto2, Adam C. King1. 1Texas Christian University, Fort Worth, TX. 2Texas Health Ben Hogan Sports Medicine, Fort Worth, TX. Email: bstanko@texashealth.org
(No relationships reported)

Board #8 1:00 PM - 3:00 PM
Landing Biomechanics Influence Circulating Stress Hormone Levels
Barnett S. Frank1, Claudio L. Battaglini1, FACSM, Troy Blackburn1, Anthony C. Hackney1, Darin A. Padua2. 1The University of North Carolina at Chapel Hill, Chapel Hill, NC. 2The University of North Carolina at Chapel Hill, Chapel Hill, NC. 3University of California San Francisco, San Francisco, CA. Email: bsfrank@email.unc.edu
(No relationships reported)

B-12 Free Communication/Slide - Exercise Psychology
Wednesday, May 31, 2017, 1:00 PM - 3:00 PM
Room: 401

Chair: Dane B. Cook, FACSM. University of Wisconsin-Madison, Madison, WI. Email: dcook@fas.harvard.edu
(No relationships reported)
AGE MODERATES THE ASSOCIATION BETWEEN SHORT SLEEP DURATION AND REDUCED EXERCISE FREQUENCY

Patrick O'Connor, FACSM, University of Georgia, Athens, GA.  
Email: pocmonor@uga.edu  
(No relationships reported)

EXPLORING THE LINK BETWEEN EXERCISE IDENTITY AND INTERVENTION DOSAGE: I-8t (INITIATING FEELINGS OF INDIVIDUAL TRANSFORMATION)

Eydie N. Kramer, Daheia J. Barr-Anderson, FACSM, University of Minnesota, Minneapolis, MN.  
Email: kramen60@umn.edu  
(No relationships reported)

PHYSICAL ACTIVITY BELIEFS IN MIDDLE-AGED, WEIGHT-CHALLENGED WOMEN WITH SEDENTARY JOBS

Mary M. Yoke, FACSM, Indiana University, Bloomington, IN.  
Email: mnyoke@indiana.edu  
(No relationships reported)

B-DAY INTERACTION ON EXERCISE: EFFECTS OF INTENSITY ON INHIBITORY CONTROL, AFFECT, AUTONOMIC CARDIAC FUNCTION AND BRAIN OXYGENATION

Wesley Quirino Alves da Silva1, Eduardo Bodnaruc Fontes1, Zayonara Larissa Lima1, Rodrigo Menezes Forti2, Alexandre Hideki Okano1, Andréa Camaz Deslandes2, Erika Hussey1, Nathan Ward2, Hassan Mohamed Elsangedy1.  
1C. Lumeng2.  
Email: songm@ohsu.edu  
Email: doug.doylebaker@gmail.com  
(No relationships reported)

ASSOCIATIONS BETWEEN MOTHER’S AND CHILDREN’S MODERATE-TO-VIGOROUS ACTIVITY AND SEDENTARY TIME IN THE FAMILY CONTEXT

MinHyung Song1, Nathan F. Dieckmann1, Sydnee Stoyles1, Julie C. Lumeng2.  
1Oregon Health and Science University, Portland, OR.  
2University of Michigan, Ann Arbor, MI.  
Email: songm@ohsu.edu  
(No relationships reported)

A NEW TEST TO MEASURE NEUROMUSCULAR FATIGUE DURING AND IMMEDIATELY AFTER CYCLING: A RELIABILITY STUDY

Douglas Doyle-Baker, John Temesi, Mary E. Medysky, Robert J. Holash, Guillaume Y. Millet.  
University of Calgary, Calgary, AB, Canada.  
Email: doug.doylebaker@gmail.com  
(No relationships reported)

LAP TIME VARIATION PREDICTS TASK ERROR DURING DUAL-TASK WALKING IN COGNITIVELY HEALTHY WOMEN

Joaquin U. Gonzales1, Youngdeok Kim1, Hyung Suk Yang2, Daniel Jensen1, Lee Atkins1, C. Roger James, FACSM1.  
1Texas Tech University, Lubbock, TX.  
2Texas Tech University Health Sciences Center, Lubbock, TX.  
(Sponsor: C. Roger James, FACSM)  
Email: joaquin.gonzales@ttu.edu  
(No relationships reported)
American College of Sports Medicine

2:45 PM - 3:00 PM
Muscle-damage Biomarkers, Hydration And Electrolytes Status Associated With Surfing Sessions Of Elite Brazilian Surfers
Franz H. Burini1, Rafael Rezende1, Pedro Rodstein1, Rodrigo Manda1, Oksley Teixeira1, Saleta Coelho1, Paulo Mendes2, Roberto C. Burini, FACSM. 1UNESP Medical School, Botucatu, Brazil. 2SURFCo., São Paulo, Brazil. (Sponsor: Roberto C. Burini, FACSM)
Email: burini@fmb.unesp.br
(No relationships reported)

B-14 Free Communication/Slide - Walking Biomechanics
Wednesday, May 31, 2017, 1:00 PM - 3:00 PM
Room: 110

634 Chair: D.S. Blaise Williams, III, FACSM. Virginia Commonwealth University, Richmond, VA. (No relationships reported)

635 1:00 PM - 1:15 PM
Asymmetry in Lower Extremity Biomechanics During Walking & Stair Ambulation Following Total Knee Replacement
Tyler Standifird1, Harold E. Cates2, Songning Zhang, FACSM3. 1Utah Valley University, Orem, UT. 2Tennessee Orthopedic Clinic, Knoxville, TN. 3University of Tennessee, Knoxville, TN.
Email: tyler.standifird@uvu.edu
(No relationships reported)

636 1:15 PM - 1:30 PM
Walking Aid Use And Arthritis: Impact On Time Spent In Active Propulsion In Older Adults
Eryn Murphy, David W. Keeley, Robert Wood. New Mexico State University, Las Cruces, NM (Sponsor: Joseph Berning, FACSM)
Email: emurphy2@nmsu.edu
(No relationships reported)

637 1:30 PM - 1:45 PM
Increasing Body Weight Alters Lower Limb Muscle Balance And Foot Control
Hechmi Toumi1, Thomas M. Best, FACSM2, Masensen Cherief2, Gaith Largued3, Marjia Mazor3, Eric Lespessailles3. 1Service de Rhumatologie, Centre hospitalier régional d’Orléans., Orleans University, Orleans, France. 2Department of Orthopedics, Division of Sports Medicine, Miami, FL. 3University of Southern California, Los Angeles, CA. (Sponsor: Thomas Best, FACSM)
Email: hechmi.toumi@uni-v Orleans.fr
(No relationships reported)

638 1:45 PM - 2:00 PM
Effect Of Excess Weight on Lower-Extremity Vertical Stiffness, Muscle Activation, And Metabolic Cost Of Walking
Victoria A. Gregory, Ronald V. Croce, Timothy J. Quinn, FACSM, Dain P. LaRoche, FACSM. University of New Hampshire, Durham, NH.
Email: vgreg6@gmail.com
(No relationships reported)

639 2:00 PM - 2:15 PM
Concurrent Validity Of Zeno Compared To Gaitrite With Backward Walking In Healthy Older Adults
Rebecca Lin, Shagan Patel, Coty Thomas, Jane Freund, Srikant Vallabhajosula, Elon University, Elon, NC. (Sponsor: Dr. Stephen Bailey, FACSM)
Email: rlin@elon.edu
(No relationships reported)

640 2:15 PM - 2:30 PM
Gait Variability Among Breast Cancer Survivors During Forward And Backward Walking
Srikant Vallabhajosula, Emily H. Harrison, Caroline D. Deaterly, Takadzwia A. Madzima. Elon University, Elon, NC. (Sponsor: Dr. Stephen Bailey, FACSM)
Email: svallabhajosula@elon.edu
(No relationships reported)

641 2:30 PM - 2:45 PM
Upper Body Accelerations During Walking are Altered in Individuals With ACL Reconstruction
Courtney N. Armitano, Steven Morrison, Daniel M. Russell. Old Dominion University, Norfolk, VA. (Sponsor: David P. Swain, FACSM)
Email: carmito02@odu.edu
(No relationships reported)

642 2:45 PM - 3:00 PM
Characterizing Shank Angular Velocity During Gait in Individuals Post-ACLR Using IMUs in Ecological Settings
Paige E. Lin, Gabriel M. Glasser, Ming-Sheng M. Chan, Susan M. Sigward. University of Southern California, Los Angeles, CA.
Email: paigelin@usc.edu
(No relationships reported)

B-15 Clinical Case Slide - Lumbosacral Spine I
Wednesday, May 31, 2017, 1:00 PM - 2:40 PM
Room: 504

643 Chair: Pierre Rouzier, FACSM. University of Massachusetts, Amherst, MA. (No relationships reported)

644 Discussant: Jimmy D. Bowen. Advanced Orthopedic Specialists, Cape Girardeau, MO. (No relationships reported)

645 Discussant: Robert C. Cantu, FACSM. Emerson Hospital, Concord, MA. (No relationships reported)

646 1:00 PM - 1:20 PM
Low Back and Bilateral Posterior Hip Pain in an Adolescent Female
Jasmin Mosley Gooden, Michael Fong, Marissa S. Vasquez. Kaiser Permanente, Los Angeles, CA. (Sponsor: Aaron Rubin, FACSM) (No relationships reported)

647 1:20 PM - 1:40 PM
A Real Pain in the Behind
Spencer Jones. TriHealth Orthopedics & Sports Institute, Cincinnati, OH.
Email: spencer_jones@trihealth.com
(No relationships reported)

648 1:40 PM - 2:00 PM
Rapid Return To Sport After Lumbar Epidural Steroid Injection
Lauren Geroski, James Natalie, Stephen Woods. COPC Sports, Spine & Joint, Westerville, OH. (No relationships reported)

649 2:00 PM - 2:20 PM
Back Injury - Cheerleading
Michael A. Stillier, Michelle A. Miller. The Ohio State University, Columbus, OH. (No relationships reported)
Hands On Demonstration

650  2:20 PM - 2:40 PM
Low Back Injury and Soccer
Ay暮ar Demirel1, Mehmet Yorulmazl2, Ozlem Ulger1. 1 Hacettepe University, ankara, Turkey; 2Acbadem Hospital, ankara, Turkey.
Email: ayymudemirel629@hotmail.com
(No relationships reported)

B-16 Basic Science World Congress - Tutorial Lecture - Ecological Approach to Cognitive Enhancement: Complex Motor Training
Wednesday, May 31, 2017, 1:00 PM - 1:50 PM
Room: 201

Andrew Conway. Claremont Graduate University, Claremont, CA.
(No relationships reported)

B-17 Basic Science World Congress - Tutorial Lecture - How the Immune System Talks to the Brain
Wednesday, May 31, 2017, 1:00 PM - 1:50 PM
Room: 205

Jeffrey A. Woods, FACSM. University of Illinois, Urbana, IL.
(No relationships reported)

B-18 Tutorial Lecture - Paradigm Shift: Operationally-Relevant Physical Fitness Tests and Standards for the Military - International Progress
Wednesday, May 31, 2017, 1:00 PM - 1:50 PM
Room: 406

With recent official announcements by defense secretaries to open combat occupations to females, several nations have undergone R&D of physical employment standards that focus on occupational specificity and operational relevance independent of gender, ethnicity, age, and rank - a “hot” issue per the ACSM 2016 Military Physiology Extension: How the ACSM promotes Physical Activity.

654 Neal Baumgartner. US Air Force Exercise Science Unit, San Antonio, TX.
(No relationships reported)

655 Jace Drain. Defence Science and Technology Group, Fishermans Bend, Australia.
(No relationships reported)

656 Stephen D. Myers. Occupational Performance Research Group, Chichester, 4E, United Kingdom.
(No relationships reported)

651 Wednesday, May 31, 2017, 1:00 PM - 1:50 PM
Room: 205

B-18 Tutorial Lecture - Paradigm Shift: Operationally-Relevant Physical Fitness Tests and Standards for the Military - International Progress
Wednesday, May 31, 2017, 1:00 PM - 1:50 PM
Room: 406

With recent official announcements by defense secretaries to open combat occupations to females, several nations have undergone R&D of physical employment standards that focus on occupational specificity and operational relevance independent of gender, ethnicity, age, and rank - a “hot” issue per the ACSM 2016 Military Physiology Interest Group. This paradigm shift away from traditional normative based fitness tests is of significant interest to ACSM national and international members for development of legally and scientifically defensible standards. ACSM scientists from Canada, US, Australia, and the UK that have researched, developed and implemented new tests and standards will address progress.

Katherine B. Gunter, FACSM. Oregon State University, Corvallis, OR.
(No relationships reported)

Anne R. Lindsay. University of Nevada, Cooperative Extension, Las Vegas, NV.
(No relationships reported)

B-20 Tutorial Lecture - Unique Characteristics of Overhead Athletes and Prevention of Injury
Wednesday, May 31, 2017, 1:00 PM - 1:50 PM
Room: 507

This session will discuss the most up-to-date literature on prevention of upper extremity injuries using the concept of the kinetic chain. We will then explain the physiological differences between male and female overhead athletes. Finally, a description of the common presentation, diagnosis, and treatment of upper extremity stress fractures will be presented for athletes that participate in all overhead sports.

Jason L. Zaremski, FACSM. University of Florida, Gainesville, FL.
(No relationships reported)

William F. Micheo, FACSM. University of Puerto Rico, Bayamon, PR, Puerto Rico.
(No relationships reported)

Ashwin N. Babu. Harvard Medical School, Boston, MA.
(No relationships reported)

B-21 Clinical Workshop-Hands On Demonstration - Examination of the Knee
Wednesday, May 31, 2017, 1:00 PM - 1:50 PM
Room: 501

Our objective is to provide a hands-on, clinically relevant approach to history taking and physical examination of the injured knee utilizing live patient models to illustrate the examination. We offer both a primary care and surgical point of view for approaching the knee examination. Many primary care physicians, physiotherapists, athletic trainers, and other providers comment on the continuing need for review of specific examination techniques for joints, including the knee. Based on feedback from our previous workshops, attendees also desire a clinically relevant approach to examining the pediatric as well as the adult knee. This workshop aims to provide clinically oriented, hands-on instruction in examining the knee joint.

Scott A. Magnes, FACSM. Fort Belvoir Community Hospital, Fort Belvoir, VA.
(No relationships reported)

Robert Johnson, FACSM. University of Minnesota, Minneapolis, MN.
(No relationships reported)
B-22  Exercise is Medicine® - Tutorial Lecture - Exercise is Medicine for Depression  
Wednesday, May 31, 2017, 1:00 PM - 1:50 PM  
Room: Hotel-Centennial Ballroom F  
664 Rod Dishman, FACSM. University of Georgia, Athens, GA.  
(No relationships reported)

B-23  Basic Science World Congress - Keynote - Active Living for Healthy Brains  
Wednesday, May 31, 2017, 2:10 PM - 3:00 PM  
Room: 201  
665 Marc J. Poulin. University of Calgary, Calgary, AB, Canada.  
(No relationships reported)

B-24  Elsworth R. Buskirk Tutorial Lecture - Exercise, Muscle and CHO Metabolism  
Wednesday, May 31, 2017, 2:10 PM - 3:00 PM  
Room: 406  
Dr. Buskirk started his career working with Henry Longstreet Taylor and Ancel Keys examining starvation, semi-starvation, carbohydrate metabolism, etc. He then worked at the US Army Quartermaster corps (Now USARIEM at Natick, MA) working on military nutrition and metabolism, further development of the K-ration (now MRE’s), and the role of fat and carbohydrates in the diet of active people. Dr. Hargreaves’ talk will focus on an aspect of CHO metabolism that begins with reference to Dr. Buskirk’s early work and include his own lab’s contributions on these and related topics.

666 Mark Hargreaves, FACSM. The University of Melbourne, Melbourne, Australia.  
Reported Relationships: M. Hargreaves: Honoraria; GSSI.

B-25  Priscilla M. Clarkson Tutorial Lecture - Is Exercise Really Medicine?  
Wednesday, May 31, 2017, 2:10 PM - 3:00 PM  
Room: 205  
667 Barry Braun, FACSM. Colorado State University, Fort Collins, CO.  

B-26  Tutorial Lecture - Motorsport Physiology: More than Just Turning Left  
Wednesday, May 31, 2017, 2:10 PM - 3:00 PM  
Room: 104  
Automobile racing is one of the largest spectator sports in the world, with 5 million viewers each week. Racing drivers are subjected to high heat environments, increased gravitational forces and possible carbon monoxide exposure. Despite these physiological stressors there are less than 70 peer reviewed articles published on motorsport physiology. In comparison there are typically 70 articles published per year on football, soccer and rugby. Two of the primary researchers in the field (Ferguson and Potkanowicz) will review the state of the field relating to motorsport physiology and present novel data addressing the above listed stressors. We will make a case that automobile racecar drivers are specialized athletes that need the attention of ACSM professionals.

668 Ed Potkanowicz. Ohio Northern University, Ada, OH.  
(No relationships reported)

669 David Ferguson. Michigan State University, East Lansing, MI.  
(No relationships reported)

B-27  Colloquium - Science, Economics, and the Arts in ActivEarth Projects  
Wednesday, May 31, 2017, 2:10 PM - 3:00 PM  
Room: 402  
This colloquium describes ActivEarth projects designed to enhance active transportation and public health by considering factors including health, economic, environmental, and the arts. Data on bike friendly businesses and the role they play in promoting biking among the community will be shared. Also, Kinesiology, Art, and Environmental Science departments collaborate by working with local businesses to design and create unique bike racks for their businesses. Tracking data includes bike use, predictions of effect on carbon emissions, small business revenue, people’s appreciation for artistic merits of the unique bike racks, and comparisons made before and after bike racks are installed.

670 Melissa Bopp, FACSM. The Pennsylvania State University, University Park, PA.  
(No relationships reported)

671 Robert A. Oppliger, FACSM. Iowa City, IA.  
(No relationships reported)

672 Helaine M. Alessio, FACSM. Miami University, Oxford, OH.  
(No relationships reported)

B-28  Colloquium - Shoulder: From MRI Scanner to OR Table. Does the Read Match the Surgical Findings?  
Wednesday, May 31, 2017, 2:10 PM - 3:00 PM  
Room: 507  
The MRI scan has become ever popular in diagnosing shoulder injuries. Radiologist and orthopaedic surgeon will present cases of MR and arthroscopic findings.

673 Mary Lloyd Ireland, FACSM. University of Kentucky, Lexington, KY.  
(No relationships reported)

(No relationships reported)

B-29  Clinical Workshop-Hands On Demonstration - Practical Sports Ultrasound of the Knee  
Wednesday, May 31, 2017, 2:10 PM - 3:00 PM  
Room: 501  
Advances in musculoskeletal ultrasound allow for more effective evaluation and management of common sports medicine conditions. This one hour workshop covers the topic of common knee conditions in athletes, including effective ultrasound anatomy evaluation. We also discuss US-guided procedures techniques and how these can improve safety and efficacy of treatment.

675 Adani Tenforde. Spaulding Rehabilitation Hospital, Charlestown, MA.  
(No relationships reported)

676 Christine Eng. Spaulding Rehabilitation Hospital, Wellesley, MA.  
(No relationships reported)

677 Lauren Elson. Spaulding Rehabilitation Hospital, Charlestown, MA.  
(No relationships reported)
B-30 Exercise is Medicine® - Colloquium - Healthy New Albany: An Innovative Community-Based Health Initiative Incorporating Exercise Is Medicine
Wednesday, May 31, 2017, 2:10 PM - 3:00 PM Room: Hotel-Centennial Ballroom F

Healthy New Albany located in New Albany, Ohio is a collaborative effort with The Ohio State Wexner Medical Center and Nationwide Children’s Hospital. The philosophy is integration of primary care, sports medicine, orthopedics, physical therapy, functional therapy by athletic trainers, integrative therapies, nutritional services and health coaching with the goal of personalized health and wellness closely linked to community resources. This unique atmosphere features physical activity prescription to improve patient outcomes across the lifespan.

678 Jodi Kuri, The Ohio State Wexner Medical Center; Columbus, OH. (No relationships reported)
679 Amy Valasek, Nationwide Childrens Hospital; Westerville, OH. (No relationships reported)
680 Philip Heit, Philip Heit Center for New Albany; New Albany, OH. (No relationships reported)
681 Michael Jonesco, The Ohio State Wexner Medical Center; Columbus, OH. (No relationships reported)

B-31 Highlighted Symposium - Controversies and Current Evidence in Pediatric Sports Medicine
Wednesday, May 31, 2017, 3:15 PM - 5:15 PM Room: 302

682 3:15 PM - 3:25 PM Chair: Kevin R. Vincent, FACSM. University of Florida, Gainesville, FL. (No relationships reported)
683 3:25 PM - 3:55 PM Mary Lloyd Ireland, FACSM. University of Kentucky Orthopaedic and Sports Medicine, Lexington, KY. (No relationships reported)
684 3:55 PM - 4:25 PM Martha Murray, Boston Children’s Hospital, Boston, MA. (No relationships reported)
685 4:25 PM - 4:55 PM Kevin Shea, Intermountain Orthopaedics, Boise, ID. (No relationships reported)
4:55 PM - 5:15 PM Overall Discussion

B-32 Basic Science World Congress - Symposium - Brain Blood Flow and Exercise
Wednesday, May 31, 2017, 3:15 PM - 5:15 PM Room: 201

686 3:15 PM - 3:20 PM Chair: Kevin Shoemaker. The University of Western Ontario, London, ON, Canada. (No relationships reported)
687 3:20 PM - 3:45 PM Challenges in Measuring Brain Blood Flow
Kevin Shoemaker. The University of Western Ontario, London, ON, Canada. (No relationships reported)

B-33 Basic Science World Congress - Symposium - Exercise in Movement Disorders
Wednesday, May 31, 2017, 3:15 PM - 5:15 PM Room: 205

691 3:15 PM - 3:20 PM Chair: Roger Enoka, University of Colorado, Boulder, CO. (No relationships reported)
692 3:20 PM - 3:55 PM Exercise as a Counter Measure to Declining Nervous System Function in MS
Robert W. Motl. University of Alabama at Birmingham, Birmingham, AL. (No relationships reported)
693 3:55 PM - 4:30 PM Scientific Basis for Vigorous Exercise as Disease-Modifying in Parkinson’s Disease
J. Eric Ahlskog. Mayo Clinic, Rochester, MN. (No relationships reported)
694 4:30 PM - 5:05 PM Novel Exercise Interventions and Outcome Assessments for Individuals with Parkinson’s Disease
Kristen A. Pickett. University of Wisconsin-Madison, Madison, WI. (No relationships reported)
5:05 PM - 5:15 PM Overall Discussion

B-34 Symposium - Deranged Cardiovascular Stress Responses in Individuals with Insulin Resistance
Wednesday, May 31, 2017, 3:15 PM - 5:15 PM Room: Bellco Theatre 1

Insulin resistance is an increasingly common presentation in type 2 diabetes and numerous clinical and pre-clinical syndromes. People with insulin resistance have abnormal systemic responses to cardiovascular stressors. These responses reduce functional capacity and may predict morbidity. Senior speakers will discuss the changes to metabo- and baro-reflex (Fadel) and cerebrovascular responses (Schrage) to stress in people with insulin resistance. Junior speakers will describe peripheral vascular (Fly) and left ventricular (Wilson) responses to stress in these populations. Co-convenors will close with an overview of how these changes impact functional capacity and considerations for effective exercise interventions.
Skeletal muscle adapts to exercise-induced damage by orchestrating several adaptations that help protect it from subsequent damage. This phenomenon is collectively known as the repeated bout effect (RBE). Study of the RBE can shed light on the mechanisms of muscle adaptations in a relatively short time frame, and has led to insights into regenerative and adaptive properties of skeletal muscle, with applications for both pathological (muscle disease) and physiological (exercise training) situations. This symposium brings together experts on the RBE to explain its diverse mechanisms from neural, mechanical, cellular and molecular perspectives.

B-37  Symposium - Recent Insights Into Mechanisms of the Repeated Bout Effect

Wednesday, May 31, 2017, 3:15 PM - 5:15 PM
Room: 607

American College of Sports Medicine

695  3:15 PM - 3:20 PM
Co-Chair: Christopher T. Minson, FACSM. University of Oregon, Eugene, OR.
(No relationships reported)

696  3:15 PM - 3:20 PM
Co-Chair: J. Chris Baldi, FACSM. University of Otago, Dunedin, New Zealand.
(No relationships reported)

697  3:20 PM - 3:55 PM
Neural Control of the Circulation in Type 2 Diabetes
Paul J. Fadd, FACSM. University of Texas at Arlington, Arlington, TX.
(No relationships reported)

698  3:55 PM - 4:10 PM
Left Ventricular Stress Response in Patients with Type 2 Diabetes
(No relationships reported)

699  4:10 PM - 4:45 PM
Cerebrovascular Control is Challenged by Insulin Resistance
William G. Schrage. University of Wisconsin-Madison, Madison, WI.
(No relationships reported)

700  4:45 PM - 5:00 PM
Macrovacular and Microvascular Dysfunction in Polycystic Ovarian Syndrome
Brett R. Ely. University of Oregon, Eugene, OR.
(No relationships reported)

5:00 PM - 5:15 PM
Overall Discussion

B-36  Symposium - Making Strides towards Understanding Stride Length: Physiological, Biomechanical, and Clinical Perspectives

Wednesday, May 31, 2017, 3:15 PM - 5:15 PM
Room: 110

Individuals naturally select a preferred stride length and rate combination for a given speed. Traditional thought is that energetic cost of locomotion is minimized at preferred stride length. Contemporary thinking is to decrease stride length as a means to reduce risk of overuse injury during running. The purpose of this session is to discuss the mechanical and energetic aspects of optimal stride length and whether manipulating stride length produces a positive clinical outcome. The importance of loading magnitude versus loading cycles that are inherently associated with alterations in stride length will also be discussed.

706  3:15 PM - 3:20 PM
Chair: Allison H. Gruber. Indiana University, Bloomington, IN.
(No relationships reported)

707  3:20 PM - 3:45 PM
Why do we Run the Way we Run? The Importance of Understanding Preferred Stride Length
John A. Mercer, FACSM. University of Nevada Las Vegas, Las Vegas, NV.
(No relationships reported)

708  3:45 PM - 4:10 PM
Are Mechanical and Energetic Differences Between Foot Strike Patterns a Result of Stride Length?
Allison H. Gruber. Indiana University, Bloomington, IN.
(No relationships reported)

709  4:10 PM - 4:35 PM
Weighting the Importance of Loading Magnitude and Loading Cycles Using Cumulative Damage Theory
W. Brent Edwards. University of Calgary, Calgary, AB, Canada.
(No relationships reported)

710  4:35 PM - 5:00 PM
Theory to Practice: Is there a Link Between Stride Length and Injury Development?
D. S. Blaise Williams, FACSM. Virginia Commonwealth University, Richmond, VA.
(No relationships reported)

5:00 PM - 5:15 PM
Overall Discussion

B-35  Symposium - Integrating Omics and Physiology to Understand Human Adaptation to Hypoxia

Wednesday, May 31, 2017, 3:15 PM - 5:15 PM
Room: 406

Physiologists and genomics scientists are coming together to use tools from both specialties to learn more about how humans are adapting to life-long hypoxia. In this symposium Dr. Brutsaert will speak on the link between exercise and genomics in the Peruvian Highlands. Ancient DNA linkages with adaptation to high altitude will be specialties to learn more about how humans are adapting to life.

711  3:15 PM - 3:25 PM
Chair: Robert Roach, FACSM. University of Colorado AMC, Denver, CO.
(No relationships reported)

712  3:15 PM - 3:25 PM
Chair: Andrew Subedi, FACSM. University of Colorado, Colorado Springs, CO.
(No relationships reported)

713  3:25 PM - 3:55 PM
Lessons in the Genomics of Exercise Physiology from the Peruvian Highlands
Tom D. Brutsaert. Syracuse University, Syracuse, NY.
(No relationships reported)

714  3:55 PM - 4:25 PM
Altitude Adaptation in Tibetans Caused by Introgression of Denisovan-like DNA
Emilia Huerta-Sánchez. University of California, Berkeley, CA.
(No relationships reported)

4:25 PM - 4:55 PM
Humans Adapting to Hypoxia: Lessons from AltitudeOmics
Robert Roach, FACSM. University of Colorado AMC, Denver, CO.
(No relationships reported)

4:55 PM - 5:15 PM
Overall Discussion

www.acsm.org
P50  Final Program

711  3:15 PM - 3:20 PM  
Chair: Robert D. Hyldahl. Brigham Young University, Provo, UT. 
(No relationships reported)

712  3:20 PM - 3:45 PM  
Introduction to the Repeated Bout Effect  
Monica J. Hubal, FACSM. George Washington University, Washington, DC. 
(No relationships reported)

713  3:45 PM - 4:10 PM  
The Contribution of the Neuromuscular System to the Repeated Bout Effect  
Glyn Howatson, FACSM. Northumbria University, Newcastle, United Kingdom. 
(No relationships reported)

714  4:10 PM - 4:35 PM  
Muscle Fascicle Behavior and the Repeated Bout Effect  
Kazunori Nosaka. Edith Cowan University, Perth, Australia. 
(No relationships reported)

715  4:35 PM - 5:00 PM  
Extracellular Matrix Remodeling and the Contralateral Repeated Bout Effect  
Robert D. Hyldahl. Brigham Young University, Provo, UT. 
(No relationships reported)

716  5:00 PM - 5:15 PM  
Overall Discussion

This symposium will synthesize the current evidence addressing the safety, efficacy and clinical applications of resistance exercise in cancer rehabilitation. Topics to be addressed will be the application of key training principles to resistance exercise prescription, strength-based rehabilitation strategies (neuromuscular education, posture and mobility), the utility of resistance exercise in weight management in cancer care, and a review of resistance exercise in breast cancer spanning from safety to biomarkers and translation. The outcomes of this symposium will describe the current state of the field, define future research directions and guide efforts to implement resistance exercise in a cancer population.

717  3:15 PM - 3:20 PM  
Chair: Kathryn H. Schmitz, FACSM. Penn State Cancer Institute, Hershey, PA. 
(No relationships reported)

718  3:20 PM - 3:45 PM  
Ciaran M. Fairman. The Ohio State University, Columbus, OH. 
(No relationships reported)

719  3:45 PM - 4:10 PM  
Utility of Integrating Resistance Exercise in a Behavioral Weight Management Intervention in Prostate Cancer Patients Undergoing Androgen Deprivation Therapy  
Brian C. Focht, FACSM. The Ohio State University, Columbus, OH. 
(No relationships reported)

720  4:35 PM - 5:00 PM  
Resistance Training in Breast Cancer: From Safety and Efficacy to Biomarkers and Translation  
Bobby Cheema. Western Sydney University, Sydney. 
(No relationships reported)

B-39  Thematic Poster - Behavioral Aspects and Correlates of Physical Activity in College Students

Wednesday, May 31, 2017, 3:15 PM - 5:15 PM  
Room: 403

Chair: Janet Buckworth, FACSM. University of Georgia, Athens, GA. 
(No relationships reported)

Board #1  3:15 PM - 5:15 PM  
The Relationship Between Fitness App Use And Physical Activity Behavior Is Mediated By Exercise Identity  
Antonio S. Santo1, Andrew Lepp2, Jacob E. Barkley2. 1University of Western States, Portland, OR. 2Kent State University, Kent, OH. 
(Sponsor: Ellen Glickman, FACSM) 
Email: tsanto@uws.edu 
(No relationships reported)

Board #2  3:15 PM - 5:15 PM  
PokeMon Go! Play May Promote Walking And Discourage Sedentary Behavior In College Students  
Jacob E. Barkley, Andrew Lepp, Ellen L. Glickman, FACSM. Kent State University, Kent, OH. 
(Sponsor: Ellen Glickman, FACSM) 
Email: j barkle1@kent.edu 
(No relationships reported)

Board #3  3:15 PM - 5:15 PM  
Effects of Social Support on Physical Activity Participation in College Freshman: The HERD Study  
Robert Powell, Lauren Bartoldson, Jared Mattingly, Holly Cyphert. Marshall University, Huntington, WV. 
Email: powellr1@marshall.edu 
(No relationships reported)

Board #4  3:15 PM - 5:15 PM  
Academic Success And One-Year Of Intramural Sports Participation By Freshmen Students  
Kerr L. Vasold, Lauren E. Kosowski, James M. Pivarnik, FACSM. Michigan State University, East Lansing, MI. 
Email: vasoldke@msu.edu 
(No relationships reported)

Board #5  3:15 PM - 5:15 PM  
The Relationship between Physical Activity and Binge Drinking among College Students: A Qualitative Investigation  
Mary K. Dinger1, Danielle R. Brittain1, Heidi M. O’Mara2, Brent M. Peterson2, Kelly C. Hall1, Molly K. Hadley3, Teresa A. Sharp6. 1Colorado School of Public Health at University of Northern Colorado, Greeley, CO. 2Biola University, La Mirada, CA. 
Email: mary.dinger@unco.edu 
(No relationships reported)

Board #6  3:15 PM - 5:15 PM  
How Is Self-efficacy Related To Components Of Health-related Fitness In Male And Female Undergraduates?  
Sandy T. Nguyen, Paul E. Yeats, FACSM, Gene L. Farren, FACSM, Tsz Lun Chu, FACSM, Mitch Barton, FACSM, Scott B. Martin, FACSM. University of North Texas, Denton, TX. 
(Sponsor: Dr. Scott Martin, FACSM) 
Email: nguyensandyt@gmail.com 
(No relationships reported)

ACSM May 30 – June 3, 2017  
Denver, Colorado
Board #7
3:15 PM - 5:15 PM
Motivational and Self-Perceptions of College Students Who Exercise for Different Reasons
James R. Whitehead, FACSM, Amanda Dufner, Jesse L. Rhoades, Tanis J. Walsh. University of ND, Grand Forks, ND.
Email: james.whitehead@email.und.edu
(No relationships reported)

Board #8
3:15 PM - 5:15 PM
An Analysis Of Physical Activity Knowledge, Motivators, and Self-efficacy In An Undergraduate Course
Monica M. Maldari1, Michelle Scribner-MacLean2, David J. Race. 1Fitchburg State University, Fitchburg, MA. 2University of Massachusetts Lowell, Lowell, MA. 3Florida Southern College, Lakeland, FL.
(No relationships reported)

B-40 Thematic Poster - Distance Running Issues
Wednesday, May 31, 2017, 3:15 PM - 5:15 PM
Room: 505

Chair: Adam S. Tenforde. Spaulding Rehabilitation Hospital, Cambridge, MA.
(No relationships reported)

Board #1
3:15 PM - 5:15 PM
A 5-year Descriptive Epidemiology and Performance Study of Adolescent Recreational Marathon Runners
Mary A. Kennedy1, Matthew W. Penney2, Dui Sugimoto3, Anna N. Brilliant1, Christopher R. Curat, Pierre A. d’Hernecourt, FACSM4. 1DREAMMAR High School Marathon, Chestnut Hill, MA. 2Advanced Sports Therapy, Wellesley, MA. 3The Micheli Center for Sports Injury Prevention, Waltham, MA. 4Boston Children’s Hospital Department of Orthopaedic Surgery and Division of Sports Medicine, Boston, MA. 5Harvard Medical School, Boston, MA.
Email: mary@dreamfarhm.org
(No relationships reported)

Board #2
3:15 PM - 5:15 PM
Runner’s Perceptions And Expectations Of Medical Coverage At Ultramarathons
Jeff S. Lynn, Kim Keeley, Kristen Zaitz, Kelly Holzberger. Slippery Rock University, Slippery Rock, PA. (Sponsor: Patricia Pierce, FACSM)
(No relationships reported)

Board #3
3:15 PM - 5:15 PM
Pre-Race Medical Screening and Educational Intervention Reduces Medical Complications: A SAFER Study in 153208 Runners
Martin Peter Schwellnus, FACSM, Karen Schwabe1, Sonja Swanevelder1, Esme Jordaan2, Wayne Derman3. 1University of Pretoria, Pretoria, South Africa. 2University of Cape Town, Cape Town, South Africa. 3South African Medical Research Council, Cape Town, South Africa. 4Stellenbosch University, Cape Town, South Africa.
(No relationships reported)

Board #4
3:15 PM - 5:15 PM
Two-peaked Increase of Serum Myosin Heavy Chain-α After Ironman Demonstrates Heart Muscle Cell Death
Jörg Carlsson, Tom Danielsson, Patrick Bergman. Linnaeus University, Kalmar, Sweden.
Email: jorg.carlsson@kika.lum.se
(No relationships reported)

Board #5
3:15 PM - 5:15 PM
Jessica S. Splon1, Angela S. Gisselman2, Steve Tumility3, James M. Smoliga1. 1High Point University, High Point, NC. 2University of Otago, Dunedin, New Zealand. (Sponsor: Gerald Zavorsky, FACSM)
Email: jsmoliga@highpoint.edu
(No relationships reported)

Board #6
3:15 PM - 5:15 PM
Hematological Changes in Elite Collegiate Cross Country Runners Residing at Moderate Altitude: A Retrospective Analysis
Kalee L. Morris1, Jesse A. Goodrich1, Sourav Poddar2, Luke Widstrom2, Miguel Rueda1, William Byrnes1. 1University of Colorado Boulder, Boulder, CO. 2University of Colorado Denver, Denver, CO.
(No relationships reported)

Board #7
3:15 PM - 5:15 PM
Fluid Replacement Knowledge and Sources of Hydration in High School Cross-Country Runners
Email: mrauh@mail.sdsu.edu
(No relationships reported)

B-41 Thematic Poster - Macronutrient Metabolism in Athletes
Wednesday, May 31, 2017, 3:15 PM - 5:15 PM
Room: 304

Chair: Craig Sale, FACSM. Nottingham Trent University, Nottingham, United Kingdom.
(No relationships reported)

Board #1
3:15 PM - 5:15 PM
Exercise Mode Combined with Essential Amino Acid and Carbohydrate Supplementation Differentially Regulate Skeletal Muscle microRNA
Lee M. Margolis, Holly L. McClung, Nancy E. Murphy, Stefan M. Pasiakos, FACSM. United States Army Research Institute of Environmental Medicine, Natick, MA. (Sponsor: Stefan M Pasiakos, FACSM)
Email: lee.m.margolis.ctr@mail.mil
(No relationships reported)

Board #2
3:15 PM - 5:15 PM
Fructose and Sucrose Ingestion Increase Exogenous Carbohydrate Oxidation Rates During Exercise in Trained Cyclists
Jorn Trommelen1, Cas J. Fuchs1, Milou Beelen1, Kaatje Lemaert1, Asker E. Jeukendrup, FACSM, Naomi M. Cermak1, Luc J.C. van Loon2. 1Maastricht University, Maastricht, Netherlands. 2Maastricht University, Maastricht, United Kingdom. (Sponsor: Janice Lee Thompson, FACSM)
Email: jorn.trommelen@maastrichtuniversity.nl
(No relationships reported)

Board #3
3:15 PM - 5:15 PM
Multiple-transportable Carbohydrate Has Minimal Impact On Long-distance Triathlon Race Performance
Email: d.s.rowlands@massey.ac.nz
(No relationships reported)
P52  Final Program

Board #4  3:15 PM - 5:15 PM
Alterations in Exogenous Carbohydrate, Liver and Muscle Glycogen Oxidation with Different Doses of Glucose and Fructose ingestion during Prolonged Cycling
Andy J. King1, John P. O’Hará2, Douglas Morrison2, Tom Preston2, Roderick FGI King1, 1Leeds Beckett University, Leeds, United Kingdom. 2Scottish Universities Environmental Research Centre, Glasgow, United Kingdom.
Email: a.k.king@leedsbeckett.ac.uk
(No relationships reported)

Board #5  3:15 PM - 5:15 PM
Glycogen Regulation Following A Short And Long Bout Of High-intensity Functional Training
Brian Kliszczewicz, Robert Buresh, Emily Bechke, Cassie Williamson, Paul Bailey, Yuri Feito, FACSM, Kennesaw State University, Kennesaw, GA. (Sponsor: Yuri Feito, FACSM)
Email: bkkliszczewicz@kennesaw.edu
(No relationships reported)

Board #6  3:15 PM - 5:15 PM
Metabolic Effects of Acute Blood Flow Restricted Exercise: Glucose & Insulin
Larry A. Osborne1, Lucas Harrison1, Ge Chen1, Samuel Fitecaim2, Michael Kushnirick1, Norio Hotta2. 1Ohio University, Athens, OH. 2Chubu University, Kasugai, Japan.
(No relationships reported)

Board #7  3:15 PM - 5:15 PM
Body Composition, Substrate Utilization, Thermoregulation, And Performance In Male Runners After 3-week High Fat Diet
Alexander J. Heatherly. University of North Alabama, Florence, AL. (Sponsor: Matt Green, FACSM)
Email: aheatherly@una.edu
(No relationships reported)

Thematic Poster - Muscle Activation during Sport and Exercise

Wednesday, May 31, 2017, 3:15 PM - 5:15 PM
Room: 101

Chair: Ajit Chaudhari, FACSM. The Ohio State University, Columbus, OH.
(No relationships reported)

Board #1  3:15 PM - 5:15 PM
Relationship Between Passive Hip Range of Motion And Hip Muscle Activation During Landing
Emma F. Zuk1, Michelle C. Boling2, Kevin R. Ford, FACSM1, Jeffrey B. Taylor1, Anh-Dung Nguyen1. 1High Point University, High Point, NC. 2University of North Florida, Jacksonville, FL. (Sponsor: Kevin Ford, FACSM)
Email: zuke13@highpoint.edu
(No relationships reported)

Board #2  3:15 PM - 5:15 PM
Shoe Cushioning Reduces Impact And Muscle Activation During Landings From Unexpected, But Not Self-initiated, Drops
Weijie Fu, Xi Wang, Yang Yang, Yu Liu. Shanghai University of Sport, Shanghai, China.
Email: fuwjie2015@163.com
(No relationships reported)

Board #3  3:15 PM - 5:15 PM
Muscle Activation Patterns during a Novel Lateral Lunge Jump Reaction Task
Michelle A. Aube, Jeffrey B. Taylor, Audrey E. Westbrook, Anh-Dung Nguyen, Kevin R. Ford, FACSM, High Point University, High Point, NC. (Sponsor: Dr. Kevin Ford, FACSM)
Email: aubem14@highpoint.edu
(No relationships reported)

ACSM 64th Annual Meeting

Board #4  3:15 PM - 5:15 PM
Changes in Lower Extremity Muscle Activation After Different Types of Exercise
Lindsay Slater, Joe Hart, FACSM, University of Virginia, Charlottesville, VA. (Sponsor: Joe Hart, FACSM)
(No relationships reported)

Board #5  3:15 PM - 5:15 PM
Influence of Force Application Strategies on Muscle Activation and Plantar Pressure during Maximal Ergometer Rowing
Renae Jackson1, Wil Wu1, Mimi Nakajima1, Tiffany Vargas1, James Becker1. 1California State University Long Beach, Long Beach, CA. 2Montana State University, Bozeman, MT.
(No relationships reported)

Board #6  3:15 PM - 5:15 PM
Electromyographic Activation Of Quadriceps In Single And Multi-joint Exercises
(No relationships reported)

Board #7  3:15 PM - 5:15 PM
Activation Of Knee Extensor Muscles During Rapid Force Development In Men And Women
Minhyuk Kwon, Jose D. Delgadillo, Jonathon W. Senefeld, Christopher W. Sundberg, Sandra K. Hunter, FACSM, Marquette University, MILWAUKEE, WI. (Sponsor: Sandra K. Hunter, FACSM)
Email: minhyuk.kwon@marquette.edu
(No relationships reported)

Board #8  3:15 PM - 5:15 PM
Proximal Joint Muscle Activation During Cutting in Chronic Ankle Instability Patients Following a Rehabilitation Intervention
Cody J. Perry1, S. Jan Son1, Hyunsoo Kim2, Brian Wisemantel1, Dustin Breuning1, Matthe K. Seeley1, J. Ty Hopkins, FACSM1. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM)
Email: codyjperry6@gmail.com
(No relationships reported)

Thematic Poster - Running

Wednesday, May 31, 2017, 3:15 PM - 5:15 PM
Room: 404

Chair: Andy Bosak. Liberty University, Lynchburg, VA.
(No relationships reported)

Board #1  3:15 PM - 5:15 PM
Energy Expenditure During Treadmill Walking and Running: Accuracy of the 100 Kcal Per Mile Estimate
Brian B. Parr, Andrew G. Hatchett, Lianna R. Epstein, Rachael L. Herring, Harli R. Eggenberger. University of South Carolina Aiken, Aiken, SC. (Sponsor: Michael J. Turner, FACSM)
Email: brianp@usca.edu
(No relationships reported)

Board #2  3:15 PM - 5:15 PM
The Effect Of Acute Body Mass Reduction On Metabolism And Endurance Running Performance
Elias Zacharogiannis1, Giorgos Paradisis1, Stamatis Magos1, Isidoros Pavlovou1, Fotini Dagli2, Theofilos Pilianditis1, Maria Maridaki1, Angeliki Zacharogianni1. 1National and Kapodistrian University of Athens, Athens, Greece. 2Leeds Beckett University, Leeds, United Kingdom.
Email: elzach@phed.uoa.gr
(No relationships reported)
American College of Sports Medicine

3:15 PM - 5:15 PM

Comparison Of RPE And Energy Expenditure Between Circuit Weight Training And Treadmill Running

Christi Brewer, Breann Booher, Nathaniel Lawton, Wendy Repovich, FACSM, Eastern Washington University, Cheney, WA. (Sponsor: Wendy Repovich, FACSM)

(No relationships reported)

3:15 PM - 5:15 PM

Effect of Wearing Lower-Body Compression Garment Following downhill Running on Running Economy

Sahiro Mizuno1, Yoshihumi Tsachiya2, Kazushige Goto1. 1Ritsumeikan University, Kusatsu, Japan. 2Atomic Bomb Disease Institute, Nagasaki, Japan. (Sponsor: Robert R. Kraemer, FACSM)

Email: librae.librac@gmail.com

(No relationships reported)

3:15 PM - 5:15 PM

Novel Field Test To Identify Critical Velocity During Non-Linear Running: Physiological Profile, Reliability, And Validation

Eric M. Bradley, Bradley W. Wilkins, Brett S. Kirby, Nike Inc, Beaverton, OR. (Sponsor: Larry Kenney, FACSM)

(No relationships reported)

3:15 PM - 5:15 PM

New Running Shoe Reduces the Energetic Cost of Running

Wouter Hoogkamer1, Shalaya Kipp1, Jesse H. Frank1, Emily Farina2, Geng Luo2, Rodger Kram1. 1University of Colorado, Boulder. Boulder, CO. 2Nike, Inc., Portland, OR. (Sponsor: Ray Browning, FACSM)

Email: wouter.hoogkamer@colorado.edu

(No relationships reported)

3:15 PM - 5:15 PM

Metabolic Cost Of Overground, Motorized Treadmill And Non-motorized Treadmill Running


Email: doug.whyte@acu.edu.au

(No relationships reported)

3:15 PM - 5:15 PM

Assessing the Relationship Between Body Composition and 50-km Running Performance

Jonathan Houck, Andy Bosak, Christopher Carver, Austin Smith, Matthew Sokoloski. Liberty University, Lynchburg, VA. (Sponsor: James Schofill, FACSM)

Email: jhouch@liberty.edu

(No relationships reported)

Free Communication/Slide - Immunology

Wednesday, May 31, 2017, 3:15 PM - 4:45 PM

Room: 104

Chair: Jonathan P. Little. University of British Columbia Okanagan, Kelowna, BC, Canada.

(No relationships reported)

3:15 PM - 3:30 PM

Effects Of Acute Eccentric Exercise On Primary Antibody Responses To Ovalbumin Vaccination In Aged Mice.

YI SUN, Jeffrey A. Woods, FACSM. UNIVERSITY OF ILLINOIS, URBANA, IL. (Sponsor: Jeffrey Woods, FACSM)

Email: yisun6@illinois.edu

(No relationships reported)

Free Communication/Slide - School-oriented Interventions

Wednesday, May 31, 2017, 3:15 PM - 5:15 PM

Room: 103

Chair: Russell R. Pate, FACSM. University of South Carolina, Columbia, SC.

(No relationships reported)

3:15 PM - 3:30 PM

Influence Of A School-based Physical Activity Intervention On Scholastic Performance - The Champs Study-DK

Anna Bugge1, Sören Möller2, Jakob Tarp3, Rodrigo A. Lima4, Charles H. Hillman4, Anne K. Gejl4, Heidi Klakk1, Niels Wedderkopp5. 1University of Southern Denmark, Odense, Denmark. 2Odense University Hospital, Odense, Denmark. 3Ministry of Education of Brazil, Brasilia, Brazil. 4Northeastern University, Boston, MA.

Email: anbugge@health.sdu.dk

(No relationships reported)
**P54** Final Program

3:30 PM - 3:45 PM  
**Evaluation of Kaiser Permanente Colorado’s Thriving Schools Initiative**  
Cheryl Kelly1, Timothy K. Behrens, FACSM, Elizabeth Tucker2, Dick Carpenter3, Carmen Luna4, Julianne Field5. 1Kaiser Permanente Colorado, Denver, CO. 2Northern Arizona University, Flagstaff, CO. 3University of Colorado Colorado Springs, Colorado Springs, CO. Email: cheryl.kelly@kp.org  
(No relationships reported)

3:45 PM - 4:00 PM  
**Effectiveness Of A Preschool-Based Exercise Intervention On Physical Activity, Motor Performance, Body-Mass-Index And Blood Pressure: A Cluster-Randomized Controlled Trial**  
Claudia Hacke1, Sascha Ketelhut2, Ulrike Wendl1, Götz Müller1, Claudia Schlesner1, Kerstin Ketelhut1. 1University Medical Center Hamburg-Eppendorf, Hamburg, Germany. 2Martin-Luther-University Halle-Wittenberg, Halle, Germany. 3University Heart Center Hamburg, Hamburg, Germany. 4Medical School Berlin, Berlin, Germany. (Sponsor: Reinhard G. Ketelhut, FACSM) Email: c.hacke@uke.de  
(No relationships reported)

4:00 PM - 4:15 PM  
**Relationship Between School Physical Environment And Sedentary Time Among Children In Puerto Rico**  
Maria Enid Santiago1,2, Marcos A. Alamillo-Birrie1, Farah A. Ramirez-Marrero, FACSM3. 1University of Puerto Rico, Rio Piedras Campus, San Juan, PR. 2University of Illinois at Chicago, Chicago, IL. 3University of Puerto Rico, Rio Piedras Campus, San Juan, PR. Email: msanti24@uic.edu  
(No relationships reported)

4:15 PM - 4:30 PM  
**The Association Between Perceived Athletic Competence And Physical Activity: Implications For Low-income Schoolchildren**  
Sarah A. Amin, Kenneth Chui, Paula Daquisanay, Catherine M. Wright, Christina D. Economos, FACSM, Jennifer M. Sacheck, FACSM. Tufts University, Boston, MA. (Sponsor: Jennifer Sacheck, FACSM) Email: s.amin@tufts.edu  
(No relationships reported)

4:30 PM - 4:45 PM  
**Effects Of Interrupting Prolonged Sitting With Activity On Appetite Sensations In Elementary School-age Children**  
Tiwaloluwa A. Ajibewa, Molly P. O’Sullivan, Matthew R. Nagy, Shannon S. Block, Trevor R. Tooley, Rebecca E. Hasson, FACSM. University of Michigan, Ann Arbor, MI. (Sponsor: Rebecca Hasson, FACSM) Email: tajib@umich.edu  
(No relationships reported)

4:45 PM - 5:00 PM  
**The Fueling Learning Through Exercise (FLEX) Study: Short-term Findings On Sedentary Time In Lower-income Schoolchildren**  
Jennifer M. Sacheck, FACSM1, Catherine Wright1, Sarah Amin1, Stephanie Anzmann-Frasca1, Virginia Chomitz2, Kenneth Chui1, Miriam Nelson, FACSM1, Christina Economos1. 1Tufts University, Boston, MA. 2University of Buffalo, Buffalo, NY. 3University of New Hampshire, Durham, NH. Email: jennifer.sacheck@tufts.edu  
(No relationships reported)

5:00 PM - 5:15 PM  
**Comparison of Moderate-to-Vigorous Physical Activity Between In-school and an Afterschool Program among Urban Underserved Children**  
Ryan McVann, Marlo P. Dell’Aquila, Madison Burke, Zi Yan, Kevin Finn, Kyle McInnis, FACSM. Merrimack College, North Andover, MA.  
(No relationships reported)

**ACSM 64th Annual Meeting**

**B-46 Clinical Case Slide - Foot and Ankle I**

**Wednesday, May 31, 2017, 3:15 PM - 4:55 PM**

**Room: 504**

**Chair:** Melody Hrubes. Schwab Rehabilitation Hospital, Chicago, IL.  
(No relationships reported)

**Discussant:** Aaron Lee. MacNeal Hospital, Bervyn, IL.  
(No relationships reported)

**Discussant:** Benjamin Hasan. Northwest Community Hospital Medicine Group, Arlington Heights, IL.  
(No relationships reported)

3:15 PM - 3:35 PM  
**Recent Medial Heel Pain In An Elite Triathlete: Location, Location, Location.**  
Jason L. Zaremski, FACSM1, Dustin Nahban1. 1University of Florida, Gainesville, FL. 2United States Olympic Committee, Colorado Springs, CO. Email: zaremjl@ortho.ufl.edu  
(No relationships reported)

3:35 PM - 3:55 PM  
**Foot Pain - Recreational Skier**  
Kelly L. Roberts Lane, FACSM. Fix It physical therapy, Mahtomedi, MN. Email: kelly@fixipt.com  
(No relationships reported)

3:55 PM - 4:15 PM  
**Tarsal Dysostosis in the Adolescent Athlete**  
Bhavesh B. Joshi. Millcreek Community Hospital, Erie, PA. Email: bhavesh.joshi.bb22@gmail.com  
(No relationships reported)

4:15 PM - 4:35 PM  
**Ciprofloxacin Induced Achilles Tendinopathy**  
Igor Prus1, Kenneth Bielak, FACSM1, Rebecca Morgan2. 1University of Tennessee Graduate School of Medicine, Knoxville, TN. 2University of Tennessee, Knoxville, TN. (Sponsor: Kenneth Bielak, FACSM)  
(No relationships reported)

4:35 PM - 4:55 PM  
**Ankle Pain and Swelling - Tennis.**  
Gabriel Carpio-Bracho, Poonam Thaker, Anthony Rizzo, Brian Donohue. Presence Resurrection Medical Center, Chicago, IL.  
(No relationships reported)

**B-47 Clinical Case Slide - Lumbosacral Spine II**

**Wednesday, May 31, 2017, 3:15 PM - 5:15 PM**

**Room: 401**

**Chair:** Sherrle L. Ballantine-Talmadge. CU Sports Medicine and Performance Center, Boulder, CO.  
(No relationships reported)

**Discussant:** Samuel K. Chu. Rehabilitation Institute of Chicago, Chicago, IL.  
(No relationships reported)

**Discussant:** John P. Batson, FACSM. Lowcountry Spine and Sport, Hilton Head Island, SC.  
(No relationships reported)
American College of Sports Medicine

Tutorial Lecture - The Impact of Active Learning on Activity, Behavior, and Academic Performance: The Texas I-CAN Results

Wednesday, May 31, 2017, 3:15 PM - 4:05 PM
Room: 507

We will present data from 28 elementary schools and over 2,500, 4th grade students assigned to either active spelling or active math lessons. Data include measures of MVPA, attention / behavior control, and both weekly academic performance and standardized test scores. We will present data that demonstrates how each of these components are linked through mediational pathways to illustrate the benefits of active learning in the elementary setting.

John Bartholomew, FACSM.
MGH Cardiovascular Performance Program, Boston, MA.
(Sponsor: John Hill, FACSM)
Email: john.bartholomew@partners.org
(No relationships reported)

Tutorial Lecture - The Pressure Is On

Wednesday, May 31, 2017, 3:15 PM - 4:05 PM
Room: 603

Blood pressure regulation is a fundamental component of human health, athletic adaptation, and peak performance. Although routine vigorous physical activity is among the most potent ways to maintain healthy blood pressure, athletes and athletic patients are not immune to disordered blood pressure regulation. This proposed tutorial will address both the "highs"and "lows" of pathologic blood pressure that are relevant to athletes, active patients, the clinicians that care for them, and the scientists that study them.

Aaron L. Bagghis, FACSM. MGH Cardiovascular Performance Program, Boston, MA.
(Sponsor: John Hill, FACSM)
Email: aaron.l.bagghis@partners.org
(No relationships reported)
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-51</td>
<td>Tutorial Lecture - I Feel Good! - Physical Activity and Quality of Life</td>
<td>Health related quality of life is a new Topic Area for Healthy People 2020. Physical activity is often perceived in the context of weight management, body image and a limited number of somatic diseases. Research indicates that increased physical activity can lead to improvements in quality of life also without a concomitant increase in cardiorespiratory fitness or weight loss. Widening the focus of outcomes to include patient reported ones, including quality of life might enhance motivation and ultimately physical activity adherence. The session will aim at giving a critical review on this issue, with special regard to physical activity counseling.</td>
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<tr>
<td>B-52</td>
<td>Tutorial Lecture - Hey Doc, I am Going to Hike Machu Picchu; What do You Think?</td>
<td>Machu Picchu is on the destination “bucket list” for many people; and many who can afford the trip are older. Travel to altitude and remote locations can pose problems for even the healthiest and most athletic younger person. The combination of environments that are found at altitude along with the challenges of travel, especially in third world countries lends to the relevance of this topic as altitude, heat, cold, solar, and local “bacteria” exposes meld to form the travel experience. There are many destinations from the 14’s in Colorado to Kilimanjaro in Africa that present similar challenges.</td>
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<tr>
<td>B-53</td>
<td>Tutorial Lecture - The Importance of Fitness as a Clinical Vital Sign</td>
<td>With recent changes in healthcare including the Affordable Care Act and a shift towards population health, one key question faced by healthcare providers and exercise professionals is how can they maximize reimbursement for patient physical activity counseling and referral programs. In this tutorial, we will review coding and billing options for physicians implementing physical activity prescription and counseling in clinical practice. We will then discuss reimbursement strategies and different care models for exercise professionals. Lastly, we will highlight successful models of how sports physicians and exercise professionals can collaborate toward implementation of the Exercise is Medicine Solution.</td>
</tr>
<tr>
<td>B-54</td>
<td>Tutorial Lecture - What We Think We Know About Exercise and Why It Might Be Wrong</td>
<td>Many large exercise trials have produced surprising outcomes and results, from identifying individuals who don’t respond to exercise training with expected benefits (i.e., non-responders) to documenting a large heterogeneity in the individual responses to identical training programs. This symposium will educate participants about some of the methodological considerations and discrepant results underlying the research involving exercise prescription for health and disease. Speakers will cover topics such as the variable data produced by exercise trials, possible reasons underlying discrepant results from large clinical exercise trials, and the gaps in the research underlying exercise prescription for cardometabolic health outcomes.</td>
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<tr>
<td>822</td>
<td>2:00 PM - 3:30 PM</td>
<td>The Acute Effects Of A Physically Active Games Lesson On Cognition In Primary School Children</td>
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<tr>
<td>823</td>
<td>2:00 PM - 3:30 PM</td>
<td>The Impact of Daily Physical Education on Perceptual Speed and PACER Laps Over Time</td>
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<tr>
<td>824</td>
<td>2:00 PM - 3:30 PM</td>
<td>Links Between Daily Physical Education, Fluid Intelligence, and Fitness Levels of Underserved Middle School Youth</td>
</tr>
<tr>
<td>825</td>
<td>2:00 PM - 3:30 PM</td>
<td>Dose Response Effect Of Physical Activity And Behavioral Regulation Measures On The Science Achievement Of At-risk Middle School Girls</td>
</tr>
<tr>
<td>826</td>
<td>2:00 PM - 3:30 PM</td>
<td>The Effect of Different Exercise Modalities on Cognition Among Adolescent Populations</td>
</tr>
<tr>
<td>827</td>
<td>2:00 PM - 3:30 PM</td>
<td>Low Academically-achieved Students Did Not Get Worse Score from Being Physically-active</td>
</tr>
<tr>
<td>828</td>
<td>2:00 PM - 3:30 PM</td>
<td>Combined Associations Between Sitting Time And Physical Activity With Cognition And Academic Achievement In Young-adults</td>
</tr>
</tbody>
</table>
Board #16 2:00 PM - 3:30 PM
Effects of a Combined Aerobic and Cognitive Training Intervention on Cognitive Function in Cancer Survivors
Brent M. Peterson¹, Cynthia Johnson², Kaylene Case³, Daniel Y.K. Shackelford³, Jessica M. Brown³, Trent L. Lalonde³, Reid Hayward³.
¹Biola University, La Mirada, CA. ²University of Northern Colorado, Greeley, CO.
Email: brent.peterson@biola.edu
(No relationships reported)

Board #17 2:00 PM - 3:30 PM
Golf Intervention For Veterans Exercise: Can Golf Influence Gait Speed And Cognition In Older Veterans?
Nicole A. Marcione, Andrea M. Du Bois, George S. Salem, FACSM.
University of Southern California, Los Angeles, CA.
(No relationships reported)

Board #18 2:00 PM - 3:30 PM
Changes in Cognition and Power Output in Adults Following High-Velocity Circuit Resistance and Treadmill Training
Sean Chowdhari, Kirk Roberson, Melanie Potiaumpai, Kayla Widowski, Anmarrie Jaghab, Catherine Armitage, Katherine McGuff, Kevin A. Jacobs, FACSM, Joseph F. Signorile. University of Miami, Miami, FL. (Sponsor: Kevin A Jacobs, FACSM)
Email: kxr181@miami.edu
(No relationships reported)

Board #19 2:00 PM - 3:30 PM
Differences Between Functional Fitness and Cognitive Impairment in Independent Older Adults in the Community
Linda L. Lin, Yen-Ting Shen, Nai-Hsin Yang, Wei-chi Tseng, Tai-you Lin. National Cheng Kung University, Tainan, Taiwan.
Email: lin22@mail.ncku.edu.tw
(No relationships reported)

Board #20 2:00 PM - 3:30 PM
Peak Heart Rate during the 6-Minute Walk Test Predicts Cognitive Performance of Healthy Older Adults
(No relationships reported)

Board #21 2:00 PM - 3:30 PM
Physical Activity, Fitness And Cognitive Function Among Community-dwelling Elderly—baseline Data Of Fujisawa Plusten Project.
Yuko Oguma¹, Yoshinobu Saito¹, Takayuki Tajima¹, Yumi Narumi², Riri Kato¹, Yasumichi Arai¹, Yui Oghi¹, Hiroko Komatsu¹, Miki Akiyama¹, Motohiko Miyachi¹, Masaru Mimura¹, Toru Takebayashi².
¹Keio University, Kanagawa, Japan. ²Keio University, Tokyo, Japan.
(No relationships reported)

Board #22 2:00 PM - 3:30 PM
Exercise And Cognition Among Individuals At Risk For Or Diagnosed With Alzheimer’S Disease: A Meta-analysis
Gregory A. Panza¹, Beth A. Taylor¹, Blair T. Johnson¹, Hayley V. MacDonald¹, Amanda L. Zaleski², Paul D. Thompson, FACSM, FACSM, Linda S. Pescatello, FACSM, FACSM. ¹University of Connecticut / Hartford Hospital, Storrs / Hartford, CT. ²University of Connecticut, Storrs, CT. ³University of Alabama, Tuscaloosa, CT. ⁴Hartford Hospital, Hartford, CT. (Sponsor: Linda S. Pescatello, PhD, FACSM)
Email: Gregory.panza@uconn.edu
(No relationships reported)

Board #23 2:00 PM - 3:30 PM
Feasibility Of Square-stepping Exercise To Improve Mobility And Cognition In Long-term Care And Retirement Living.
Erin M. Shellington¹, Dawn P. Gill¹, Narlon C. Bea Sorte Silva¹, Andrea Petrella², P. Karen Sinnavong¹, Kaylen Pisterer³, Amy Matharu¹, Susan Brown², Jaimie Kinningbeck², Ryosuke Shigematsu⁴, Robert J. Petrella, FACSM. ¹University of Western Ontario, London, ON, Canada. ²Schlegel-U of Waterloo Research Institute of Aging, Waterloo, ON, Canada. ³Schlegel Villages, Waterloo, ON, Canada. ⁴Mie University, Tsu, Japan.
Email: eshellin@uwo.ca
(No relationships reported)

Board #24 2:00 PM - 3:30 PM
Factors Influencing Visual Cognitive Performance Training
Email: sreichman@tamu.edu
(No relationships reported)

Board #25 2:00 PM - 3:30 PM
Different Influences Of Aerobic Exercise Types On Cognitive Control Of Athletes
Junyeon Won. University of Maryland at College Park, College Park, MD. (Sponsor: J. Carson Smith, FACSM)
Email: andrewwon1990@gmail.com
(No relationships reported)

Board #26 2:00 PM - 3:30 PM
The Effects of Repeated, Consecutive High-Intensity Exercise on Cognitive Performance In Well-Trained Team Sports Players
Sarah E. Browne¹, Barry V. O’Neill¹, Phillip G. Bell¹, Ken van Someren², Glynn Howatson, FACSM; Crystal F. Haskell-Ramsay³.
¹GSK Human Performance Lab, Brentford, United Kingdom. ²Northumbria University, Newcastle-upon-Tyne, United Kingdom.
Email: sarah.e.browne@gsk.com
(No relationships reported)

Board #27 2:00 PM - 3:30 PM
Injury-Related Reductions in Skilled Visuomotor Learning Revealed by Single Trial Analysis and Response Time Variability
Courtney Dunn-Lewis¹, Shawn D. Flanagan¹, James A. Onate², Jeff S. Volk², Carl M. Maresh, FACSM, William J. Kraemer, FACSM. ¹University of Pittsburgh, Pittsburgh, PA. ²Ohio State University; Columbus, OH. (Sponsor: William J. Kraemer, Ph.D., FACSM)
(No relationships reported)

Board #28 2:00 PM - 3:30 PM
Unique Leg-specific Executive And Motor BOLD Activity With Visually-guided Imagery Following ACL Injury
Shawn D. Flanagan¹, Courtenay Dunn-Lewis¹, James A. Onate¹, Jeff S. Volk², Carl M. Maresh, FACSM; William J. Kraemer, FACSM. ¹University of Pittsburgh, Pittsburgh, PA. ²Ohio State University; Columbus, OH. (Sponsor: William J. Kraemer, Ph.D., FACSM)
(No relationships reported)
Board #29
2:00 PM - 3:30 PM
Cardiovascular Dynamics During The Cold Pressor Test In Recently Conquered College Athletes
Email: blairjohn@buffalo.edu
(No relationships reported)

Board #30
2:00 PM - 3:30 PM
Effects of Multiple Sports Related Conclusions On Neurocognition and Cerebral Vascular Function
Nicholas G. Evanoff1, Kara L. Marlatt2, Bryon A. Mueller1, Suzanne S. Hecht, FACSM3, Jeffrey R. Wozniak1, Kelvin O. Lim1, Donald R. Dangel, FACSM1. 1University of Minnesota, Minneapolis, MN. 2Pennington Biomedical Research Center, Baton Rouge, LA. (Sponsor: Donald R. Dangel, FACSM) Email: koj3@cdc.gov
(No relationships reported)

Board #31
2:00 PM - 3:30 PM
The Effect of Industrial Hyperthermia on Firefighters’ Cognitive Function in Warm Humid Environment
Ali M. Aljaroudi1, Amit Bhattacharyya2, Darren S. Kadie2, Amanda LaStru2, Tyler Quinn1, W. Jon Williams1. 1University of Cincinnati, Cincinnati, OH. 2University of Akron, Akron, OH. (Sponsor: Donald R. Dangel, FACSM) Email: evan0012@umn.edu
(No relationships reported)

Board #32
2:00 PM - 3:30 PM
Annual Baseline Drift in Professional Rugby League Players
Lisa Hodgson1, Peter Walker2, Paul Maruff3, David Darby4, Conor Gissane5. 1The F.A, Burton Upon Trent, United Kingdom. 2Yorkshire and Humberside Deanery, West Yorkshire, United Kingdom. 3CogState, Melbourne, Australia. 4University of Melbourne, Melbourne, Australia. 5St Mary’s University, Twickenham, United Kingdom. Email: lisa.hodgson@thefa.com
(No relationships reported)

Board #33
2:00 PM - 3:30 PM
Change in Serum Protein S100B Following a Collegiate American Football Game
Sydney A. Keuler, Abigail E. Harris, Scott W. Ringgenberg, Matthew J. Rogatzki. University of Wisconsin - Platteville, Platteville, WI.
Email: sydneykeuler@gmail.com
(No relationships reported)

Board #34
2:00 PM - 3:30 PM
Affective Responses During High-intensity Exercise Detect Changes In W
Mark E. Hartman, 500141, Nathan D. Dick2, Panteleimon Ekkelakis, FACSM3, Thomas W. Kernozek4, Robert W. Pettit, FACSM5. 1Iowa State University, Ames, IA. 2North Dakota State University, Fargo, ND. 3University of Wisconsin-La Crosse, La Crosse, MN. 4Minnesota State University, Mankato, Mankato, MN. Email: mhartman@iastate.edu
(No relationships reported)

Board #35
2:00 PM - 3:30 PM
Vitamin D and Neuropsychological Skills of Cross Country Skiers at 64° North
Email: scott.jerome@alaska.edu
(No relationships reported)

Board #36
2:00 PM - 3:30 PM
The Effects of Self-selected Music as a Diverting Activity Between Two Boats of Fatiguing Isokinetic Leg Extensions
Vanessa M. Rojo, Gloria H. Moon, Jared W. Coburn, FACSM, Lee E. Brown, FACSM, Pablo B. Costa. Cal State Fullerton, Fullerton, CA. (Sponsor: Jared W Coburn, FACSM) Email: Vanessa.Rojo@csusb.edu
(No relationships reported)
Board #44  3:30 PM - 5:00 PM
Use Of Sit-To-Stand Workstations: Impact On Physical Activity
Shiann Wickham, Catherine Patrick, Larissa Boyd, Melissa Powers. University of Central Oklahoma, Edmond, OK. (No relationships reported)

Board #45  3:30 PM - 5:00 PM
Bicycling for Exercise Helps Maintain a Youthful Metabolic Cost of Walking in Older Adults
Daniel H. Aslan, Joshua M. Collette, Justus D. Ortega. Humboldt State University, Arcata, CA. (No relationships reported)

Board #46  3:30 PM - 5:00 PM
Exergaming Intervention in Sedentary Middle-Aged Adults Improves Lower Extremity Functional Fitness and Exercise Self-Efficacy
Daniel M. Rosney, Sr, Dmitriy V. Belous, Mingmei Tian, Courtney E. Miller, Katherine T. O’Donnell, Sabrina M. Daniels, Peter J. Horvath. State University of New York at Buffalo, Buffalo, NY. (Sponsor: Luc E. Gosselin, FACSM)

Board #47  3:30 PM - 5:00 PM
Association between Increased Activity and Wellbeing under Weight Stable Conditions
Madison M. DeMello1, Bernardine M. Pinto2, Steven N. Blair, FACSM3, Gregory A. Hand, FACSM4. 1University of South Carolina, Columbia, SC. 2West Virginia University, Morgantown, WV. Email: demello@mailbox.sc.edu

Board #48  3:30 PM - 5:00 PM
Physical Activity of Parents and Children Playing Together and the Effects of Varying Structured Activity
Patrick Filanowski1, Laurie Milliken, FACSM2, Ronald J. Iannotti2, Scott E. Crouter, FACSM3, Anne Vermuelen4, Ellyn L. Schmidt5, Jessica A. Hoffman6, Carmen Castaneda-Sceppa7. 1University of Massachusetts Boston, Boston, MA. 2CDM Group, Inc, Bethesda, MD. 3University of Tennessee, Knoxville, TN. 4Northeastern University, Boston, MA. (Sponsor: Laurie Milliken, FACSM)

Board #49  3:30 PM - 5:00 PM
Exergaming Intervention in Sedentary Individuals Improves Attitudes Towards Exercise and General Health
Courtney E. Miller1, Katherine T. O’Donnell1, Daniel M. Rosney1, Dmitriy V. Belous1, Mingmei Tan1, Kelsey Jaynes2, Peter J. Horvath1. 1University at Buffalo, Buffalo, NY. 2Cornell University, Ithaca, NY. (Sponsor: Luc E. Gosselin, FACSM)

Board #50  3:30 PM - 5:00 PM
Comparing The Effects Of Intrinsic And Extrinsic Motivational Support On Physical Activity Level During Exercise
Naoki Yamazaki1, Kazunori Sakamoto1, Soichi Ando1, Ryuji Takigawa1, Ataru Kobayashi1, Shinobu Tsurugano1, Kiyoshi Tanaka, FACSM2, Kazunori Ohkawara1. 1University of Electro-Communications, Tokyo, Japan. 2National Institute of Informatics, Tokyo, Japan. (Sponsor: Laurie Milliken, FACSM)

Board #51  3:30 PM - 5:00 PM
Association between Physical Activity and Weight Loss: Mediation Effects of Dietary Restraint and Dishinhibition
Kelli Davis, FACSM1, Deborah Tate2, Wei Lang3, John Jakicic4. 1University of Pittsburgh, Pittsburgh, PA. 2University of North Carolina, Chapel Hill, NC. 3Wake Forest University-School of Medicine, Winston-Salem, NC. Email: kd22@pitt.edu

Board #52  3:30 PM - 5:00 PM
Using Focus Groups To Culturally Tailor A Diabetes Intervention In A Pacific Northwest Tribal Reservation
William Sellers1, Ka’imi Sinclair2, Myra E. Parker2, Maya Magnat2, Alison Ball3, Korey Carden3. 1Washington State University, Seattle, WA. 2University of Washington, Seattle, WA. 3Colville Tribes, Nespelem, WA. (Sponsor: Wendy Repovich, FACSM)

Board #53  3:30 PM - 5:00 PM
Factors that Associate With Better Exercise Compliance in Mobile App Based Program: The Virtual Trainer Project
Stanley Sai-chuen Hui, FACSM1, Ron C.W. Kwok2, Eric W.C. Tam2. 1The Chinese University of Hong Kong, Shatin, Hong Kong. 2City University of Hong Kong, Kowloon Tong, Hong Kong. 3Hong Kong Polytechnic University, Hung Hom, Hong Kong. Email: hui2162@cuhk.edu.hk

Board #54  3:30 PM - 5:00 PM
Exergaming by Sedentary Middle-Aged Adults Did Not Alter Self-Reported Dietary Intake and Physical Activity
Mingmei Tian, Sean M. Kishel, Katherine T. O’Donnell, Daniel M. Rosney, Peter J. Horvath. State University of New York at Buffalo, BUFFALO, NY. (Sponsor: Luc E. Gosselin, FACSM)

Board #55  3:30 PM - 5:00 PM
Myplate Enhances Physical Activity Along With Nutritional Knowledge In College Students: A Pilot Study
ALI M. Al nawaiseh, Moath F. Bataineh, Akef M. Taifour. Hashemite University, Zarqa, Jordan. (Sponsor: Matt Green, FACSM)

Board #56  3:30 PM - 5:00 PM
Comparison of Mindful and Slow Eating Strategies on Acute Reported Dietary Intake and Physical Activity
Anna Peluso1, Kelliann K. Davis, FACSM2, Bethany Barone Gibbs2. 1University at Buffalo, Buffalo, NY. 2Cornell University, Ithaca, NY. (Sponsor: Matt Green, FACSM)

Board #57  3:30 PM - 5:00 PM
Adherence-related Psycho-perceptual Responses To High-intensity Interval Training In Physically Inactive Middle-aged Adults
Eric Tsu-Chun Poon, Anthony Pui-Wan Chung, Warris Wongpiip, Sinead Sheridan, Stephen Heang-Sang Wong, FACSM. The Chinese University of Hong Kong, Hong Kong, Hong Kong. (No relationships reported)

Board #58  3:30 PM - 5:00 PM
Social Impact Bonds - Applicability In Preventive Medicine
Roni S. Moran, Daniel S. Moran, FACSM, Gil Fire. Ariel University, Ariel, Israel. (Sponsor: Daniel S. Moran, FACSM)
Board #59 3:30 PM - 5:00 PM  
Health Promotion Intervention On Rural Roads In Sweden - A Case Study Of Cycling Safety  
Ruggero L. Ceci1, Christopher J. Patten1. 1Swedish Transport Administration, Stockholm, Sweden. 2Swedish National Road and Transport Research Institute, Borlänge, Sweden. (Sponsor: Christopher Dunbar, FACSM)  
Email: ruggero.ceci@trafverket.se  
(No relationships reported)

Board #60 3:30 PM - 5:00 PM  
Relationship Between Affective Responses And Adherence To High Intensity Interval Training In Obese African-American Women  
Alvin L. Morton1, Kelley Strohacker1, Michael J. McKenzie, FACSM2, Melicia C. Whitt-Glover, FACSM3, David L. Mount4, Lyndsey M. Hornbuckle1. 1University of Tennessee, Knoxville, TN. 2Winston-Salem State University, Winston-Salem, NC. 3Gramercy Research Group, Winston-Salem, NC. 4Mind Body Institute Beyond, Winston-Salem, NC. (Sponsor: Melicia C. Whitt-Glover, FACSM)  
Email: amorton16@vosls.utk.edu  
(No relationships reported)

Board #61 3:30 PM - 5:00 PM  
Variation In Daily Physical Activity During An Exercise Intervention Period In Older Adult Japanese  
Ryuji Takagawa1, Kazunori Sakamoto2, Soichi Ando3, Naoki Yamazaki4, Ataru Kobayashi1, Shinobu Tsurugano1, Kiyotaka Tanaka1, FACSM5, Kazunori Ohkawara2. 1The University of Electro-Communications, Tokyo, Japan. 2National Institute of Informatics, Tokyo, Japan. 3University of Tsukuba, Ibaraki, Japan. 4Vanderbilt University, Nashville, TN. 5National University of Singapore, Singapore, Singapore.  
Email: t1630076@edu.cc.uec.ac.jp  
(No relationships reported)

Board #62 3:30 PM - 5:00 PM  
Effects Of Whole 30 Dietary Program On Body Composition And Crossfit Performance  
Valden Luis Matos Capistrano Junior1, Renata Alves Camuaba2, Natália Marques3, Ana Beatriz Baptista4, Renata Desiree Beserra de Sera5, Angela Siqueira Furtado Martim6, Adriana Pereira5. 1VC Nutrition Clinic research, Fortaleza, Brazil. 2University of Tsukuba, Ibaraki, Japan. 3University of the Faroe Islands, Tórshavn, Faroe Islands. 4The Faroese National Hospital, Tórshavn, Faroe Islands. 5The Faroese Hospital System, Tórshavn, Faroe Islands. 6The Faroese National Hospital, Tórshavn, Faroe Islands.  
Email: valdenjunior@hotmail.com  
(No relationships reported)

Board #63 3:30 PM - 5:00 PM  
Impact Of Sit-stand Workstation Use On Physical Fitness: A Pilot Study  
Kelsey Reynolds, Dale D. Brown, FACSM2, Daniel Dodd, Kelly R. Tomayko, Deborah H. John. 1University of Central Oklahoma, Edmond, OK. 2Oregon State University, Corvallis, OR.  
Email: kathy.granter@oregonstate.edu  
(No relationships reported)

Board #64 3:30 PM - 5:00 PM  
Impact Of Visual Feedback on Exercise Intensity and Motivation  
Kelsey Reynolds, Dale D. Brown, FACSM, Daniel Dodd, Kelly R. Tomayko, Deborah H. John. 1University of Central Oklahoma, Edmond, OK. 2Oregon State University, Corvallis, OR.  
Email: Kathy.Gunter@oregonstate.edu  
(No relationships reported)

Board #65 3:30 PM - 5:00 PM  
Effects Of Consecutive And Non-consecutive Days Of Resistance Training On Erythrocytes Responses  
Yongtai Raymond Wang1, Pang Boon Bay2, Junli Huang1, Hilary Wei Jian Teo3, Jorming Goh4, Yifan Yang1. 1Nanyang Technological University, Singapore, Singapore. 2University of Electro-Communications, Tokyo, Japan. 3National University of Informatics, Tokyo, Japan. 4University of Tsukuba, Ibaraki, Japan.  
Email: yifan.yang@nie.edu.sg  
(No relationships reported)

Board #66 3:30 PM - 5:00 PM  
A Mobile Application for Improving Gait Characteristics in Community-Dwelling Older Adults  
K. Jason Crandal1, Dustin Falls2, Matthew Shake1, Elizabeth Norris, Scott Arnett, Kathyne Dispennette, Rilee Mathews. 1Western Kentucky University, Bowling Green, KY.  
Email: Jason.Crandall@wku.edu  
(No relationships reported)

Board #67 3:30 PM - 5:00 PM  
Nurses' Physical Activity Study: Caring For You So You Can Care For Others  
Bhiniha M. Das1, Brianna S. Clemmons1, Charles D. Kemble1, Ann M. Schreier1, Matthew T. Mahar, FACSM2. 1East Carolina University, Greenville, NC. 2San Diego State University, San Diego, CA.  
Email: dasb@escu.edu  
(No relationships reported)

Board #68 3:30 PM - 5:00 PM  
Evaluation of a Screening Device that Incorporates the ACSM’S Newly Revised Screening Guidelines  
JoAnn M. Eickhoff-Shemek, FACSM1, Aaron C. Craig2. 1University of South Florida, Tampa, FL. 2TechnoGym, Tampa, FL.  
Email: eickhoff@usf.edu  
(No relationships reported)

Board #69 3:30 PM - 5:00 PM  
Perceived Enjoyment Responses To High-intensity Interval Exercise and Continuous Exercise in Physically Inactive Young Men  
Waris Wongpisit, Eric T.C. Poon, Anthony P.W. Chung, Sinead E. Sheridan, Stephen H.S. Wong, FACSM. 1The Chinese University of Hong Kong, Hong Kong, Hong Kong.  
Email: waris.w@link.cuhk.edu.hk  
(No relationships reported)

Board #70 3:30 PM - 5:00 PM  
Food Insecurity and Physical Activity Insecurity among Rural Oregon Families  
Katherine B. Gunter1, Jennifer Jackson, Emily Tornayko, Deborah H. John. 1Oregon State University, Corvallis, OR.  
Email: Kathy.Gunter@oregonstate.edu  
(No relationships reported)

Board #71 3:30 PM - 5:00 PM  
Impact Of Visual Feedback on Exercise Intensity and Motivation  
Kelsey Reynolds, Dale D. Brown, FACSM, Daniel Dodd, Kelly R. Tomayko, Deborah H. John. 1University of Central Oklahoma, Edmond, OK. 2Oregon State University, Corvallis, OR.  
Email: Kathy.Gunter@oregonstate.edu  
(No relationships reported)

Board #72 3:30 PM - 5:00 PM  
Impact Of Sit-to-stand Workstation Use On Physical Fitness: A Pilot Study  
Catherine Patrick, Shiann Wickham, Larissa Boyd, Melissa Powers. 1University of Central Oklahoma, Edmond, OK.  
Email: cpattrick3@uco.edu  
(No relationships reported)

Board #73 3:30 PM - 5:00 PM  
Soccer Training Improves Metabolic and Cardiovascular Health in 50-70-yr olds with pre Type 2 Diabetes  
Magni Mohr1, May-Britt Skoradal1, Jann Mortensen1, Pål Weihe2, Peter Krustup1. 1University of the Faroe Islands, Tórshavn, Faroe Islands. 2The Faroese Hospital System, Tórshavn, Faroe Islands.  
Email: magni.m@setur.fro  
(No relationships reported)
| Board #74 | 3:30 PM - 5:00 PM | Do University Fitness Classes Meet Acsm’S Daily Activity Recommendations | Jeff Williams, Taylor Ottesen, Zachary Fuller, Mitch Kass, William Mitchell, Ellis Jensen, Steven F. Namanny. Utah Valley University, Orem, UT. Email: namanny@uvu.edu | (No relationships reported) |
| Board #75 | 3:30 PM - 5:00 PM | Chronic Systemic Inflammation, Physical Activity and Skeletal Muscle in Elderly | Fawzi Kadi, Andreas Nilsson, Britta Wählin-Larsson, Oscar Bergens. Örebro University, Örebro, Sweden. | (No relationships reported) |
| Board #76 | 3:30 PM - 5:00 PM | Biomarkers of Senescence in Aging Skeletal Muscle | Dongmin Kwak¹, Cory W. Baumann², LaDora V. Thompson¹. ¹Boston University, Boston, MA. ²University of Minnesota, Minneapolis, MN. | (No relationships reported) |
| Board #77 | 3:30 PM - 5:00 PM | The Effect of Weighted Vest Use During Caloric Restriction on Bone Health in Obese Older Adults | Jessica L. Kelleher¹, Dan P. Beavers², Rebecca M. Henderson², Jessica Kiel¹, Barbara J. Nicklas², Kristen M. Beavers¹. ¹Wake Forest University, Winston-Salem, NC. ²University of North Carolina at Chapel Hill, Chapel Hill, NC. | (No relationships reported) |
| Board #78 | 3:30 PM - 5:00 PM | Age-dependent Genomic Responsiveness Following Stretch-shortening Contraction Training In Rats | Brent A. Baker, James Ensey, Michael L. Kashon, Ja K. Gu. NIOSH, Morgantown, WV. (Sponsor: Stephen E. Alway, FACSM) | (No relationships reported) |
| Board #79 | 3:30 PM - 5:00 PM | Regression Equation To Predict Body Fat In Elderly Women Using Body Circumference Measures | Eliane Cunha GONCALVES, DRA. Fácilabilidade ESSúcio de Vitória, VITORIA - ES, Brazil. Email: elianecncg@hotmail.com | (No relationships reported) |
| Board #80 | 3:30 PM - 5:00 PM | Motor Unit Activity Potential Size In Young And Old Males | Garrett Hester¹, Zachary Pope³, Alejandra Barrera-Curiel¹, Jason DeFreitas³. ¹Kennesaw State University, Kennesaw, GA. ²Oklahoma State University, Stillwater, OK. Email: ghester@okstate.edu | (No relationships reported) |
| Board #81 | 3:30 PM - 5:00 PM | IGF-1 Response in Middle-aged And Older Men During Continuous And Intermittent Cycling At Lactate Threshold | Kenji Narazaki¹, Yukiya Tanoue², Yoichi Hatamoto², Yasuki Higaki², Hiroki Tanaka¹. ¹Fukuoka Institute of Technology, Fukuoka, Japan. ²Fukuoka University, Fukuoka, Japan. | (No relationships reported) |

**ACSM 64th Annual Meeting**

| Board #82 | 3:30 PM - 5:00 PM | Ageing Affects Cell Cycle Regulation In Human Skeletal Muscle Undergoing Atrophy And Regrowth | Ulrik Frandsen¹, Tatyana Prokhorova¹, Line Jensen¹, Lars G. Hvid², Peter Scherling³, Per Aagaard³, Michael Kjaer³, Charlotte Sueta³. ¹Faculties of Health, University of Southern Denmark, Odense, Denmark. ²Faculty of Health, University of Copenhagen, Bispebjerg Hospital, Copenhagen, Denmark. ³Biologhospitalet, University of Copenhagen, Copenhagen, Denmark. | (No relationships reported) |
| Board #83 | 3:30 PM - 5:00 PM | Age-related Reductions in Muscle Quality Influence the Relative Differences in Strength and Power | Gena R. Gerstner¹, Hayden K. Giuliani¹, Joseph G. Rosenberg², Eric J. Sobolewski³, Michael J. Scharville¹, Jacob A. Mota¹, Eric D. Ryan¹. ¹University of North Carolina at Chapel Hill, Chapel Hill, NC. ²Quintiles, Durham, NC. ³Farmar University, Greenville, SC. (Sponsor: Abbie Smith-Ryan, FACSM) Email: gerstner@email.uncc.edu | (No relationships reported) |
| Board #84 | 3:30 PM - 5:00 PM | Exercise Reduce The Rate Of mtDNA Deficiency And Mutation In Aged Muscle | Yu Zhang, Xiang Lin, Jian Zhang, Yang Ren, Li Ren, Yong Zhang. Tianjin University of Sport, Tianjin, China. Email: wenli34@hotmail.com | (No relationships reported) |
| Board #85 | 3:30 PM - 5:00 PM | Does Running And Bone Mineral Density Affect Blood Pressure In Non- And Post-menopausal Women | Doris J. Morris, Inbar Naor-Maxwell, Anjuly Davi, Christina St. Martin, L. Jerome Brandon, FACSM. Georgia State University, Atlanta, GA. | (No relationships reported) |
| Board #86 | 3:30 PM - 5:00 PM | Notch Reduces Muscle Injury in Aged Mice Following Downhill Running | Susan T. Arthur, Brooke Wilson, Joshua Huot, James Jones, Joseph Marino, UNC Charlotte, Charlotte, NC. Email: sarthur@uncc.edu | (No relationships reported) |
| Board #87 | 3:30 PM - 5:00 PM | Adiponectin Is Inversely Associated With Estimated Intramuscular Fat Index In Middle-aged And Elderly Adults | Maya Hioki¹, Nana Kanehira¹, Teruhiko Koike¹, Akira Saito¹, Kiyoshi Shimaoka¹, Hisataka Sakakibara¹, Yoshiharu Oshida¹, Hiroshi Akima². ¹Nagoya University, Nagoya, Japan. ²Tokai University, Komae, Japan. | (No relationships reported) |
| Board #88 | 3:30 PM - 5:00 PM | Age-related Changes In Contractile Function Of Mouse Soleus And Edl Muscles | David W. Russ¹, Eric X. Beck², Eric Leach¹, Kevin E. McElhanon², Noah Weisleder². ¹Ohio University, Athens, OH. ²Ohio State University, Columbus, OH. | (No relationships reported) |
| Board #89 | 3:30 PM - 5:00 PM | Dysregulated Extracellular Matrix Remodeling Of Aged Human Skeletal Muscle Following Damaging Exercise. | Jacob R. Sorensen, Alex Holland, Allen C. Parcell, FACSM, Robert D. Hydkahl, Brigham Young University, Provo, UT. Email: jross.sorensen@gmail.com | (No relationships reported) |
Board #90 3:30 PM - 5:00 PM
IMCL: EMCL and rVO2 Changes following Vitamin D Repletion and Aerobic Training In Aged Individuals
D. Travis Thomas, Maja Redzic, Mingjun Zhao, David M. Schnell, Hideat Abrah, Guoqiang Yu. University of Kentucky, Lexington, KY. Email: dtr225@uky.edu

Board #91 3:30 PM - 5:00 PM
Relationships of Muscle Quality among Back, Lower and Upper Limbs in Older Individuals
Akito Yoshikoi1, Takashi Kajii, Hiroki Sugiyama2, Teruhiko Koike1, Yoshiharu Oshida1, Hiroshi Akima1. 1-Nagoya University, Nagoya, Japan. 2Kajinoki Medical Clinic, Gifu, Japan. (Sponsor: Katsumi Asano, FACSM)
Email: yoshikoi@nagoya-u.jp
(No relationships reported)

Board #92 3:30 PM - 5:00 PM
Age-Dependent Responsiveness to Stretch-Shortening Contraction Training and Low Volume Isometric Contraction Training in Rats
Email: WLZ4@cdc.gov
(No relationships reported)

Board #93 3:30 PM - 5:00 PM
The Effect of Inspiratory Resistance on Exercise Performance in Moderate Normobaric hypoxia
Yongsuk Seo1, Jeremiah Vaughan2, Raymond Roberge3, Jung-Hyun Kim1, Ellen L. Glickman, FACSM1. 1-Centers for Disease Control and Prevention, Pittsburgh, PA. 2Kent State University,Kent, OH. 3Indiana University of Pennsylvania, Indiana, PA. Email: dhursh@iu.edu
(No relationships reported)

Board #94 2:00 PM - 3:30 PM
The Effects Of Cold-Water Hand Immersion On Executive Function, Mood, And Memory In Normobaric Hypoxia
Ellen L. Glickman, FACSM1, Jeremiah Vaughan2, Brittany Followay1, Jacob E. Barkley1, Hayden Gerhart1. 1-Kent State University, Kent, OH. 2Indiana University of Pennsylvania, Indiana, PA.
Email: eglickma@kent.edu
(No relationships reported)

Board #95 2:00 PM - 3:30 PM
Repletion and Aerobic Training In Aged Individuals
Marzorati1, E. Barkley2, Ellen L. Glickman, FACSM2. 1University of Udine, Udine, Italy. 2Kent State University, Kent, OH. (Sponsor: Shigehiko Ogoh, FACSM)
Email: eglickma@kent.edu
(No relationships reported)

Board #96 2:00 PM - 3:30 PM
Human Cognitive Function During Acute Hypoxic Exposure
Manabu Shibasaki1, Shigehiko Ogoh, FACSM1, Tadayoshi Miyamoto1, Hiroki Nakata1, 1Nara Women’s University, Nara, Japan. 2Toyo University, Kawagoe, Japan. 3Morinomiya University of Medical Science, Osaka, Japan. (Sponsor: Shigehiko Ogoh, FACSM)
Email: sjvaughn@kent.edu
(No relationships reported)

Board #97 2:00 PM - 3:30 PM
Effect of Inspiratory Resistance on Exercise and Cognitive Performance in Moderate Normobaric hypoxia
Jeremiah Vaughan, Brittany Followay, Hayden Gerhart, Ellen L. Glickman, FACSM. Kent State University, Kent, OH. (Sponsor: Ellen L. Glickman, FACSM)
Email: jvaughn@kent.edu
(No relationships reported)

Board #98 2:00 PM - 3:30 PM
Impact of Inspiratory Resistance on Cognitive Function in Normobaric Hypoxia After Exercise
Jeremiah Vaughan, Brittany Followay, Hayden Gerhart, Ellen L. Glickman, FACSM. Kent State University, Kent, OH. (Sponsor: Ellen L. Glickman, FACSM)
Email: jvaughn@kent.edu
(No relationships reported)

Board #99 2:00 PM - 3:30 PM
The Effect of Inspiratory Resistance on Exercise and Cognitive Performance in Moderate Normobaric hypoxia
Yongsuk Seo1, Jeremiah Vaughan2, Raymond Roberge3, Jung-Hyun Kim1, Ellen L. Glickman, FACSM1. 1-Centers for Disease Control and Prevention, Pittsburgh, PA. 2Kent State University,Kent, OH. (No relationships reported)

Board #100 2:00 PM - 3:30 PM
The Effect of Inspiratory Resistance during Exercise in Hypoxia on Lactate and Hemoglobin
Brittany Followay, Jeremiah Vaughan, Hayden Gerhart, Ellen Glickman, FACSM1. 1Kent State University,Kent, OH. (Sponsor: Ellen Glickman, FACSM)
Email: jvaughn@kent.edu
(No relationships reported)

Board #101 2:00 PM - 3:30 PM
The Effect of Acute Simulated Altitude on the Lactate Thresholds of Well-Trained Cyclists
Pitre C. Bourdon1, Sally A. Clark2, Robert J. Aughey3, Tom Stanef4, Sarah M. Woolford5, Walter Schmidt5, Christopher J. Gore, FACSM1. 1ASPIRE Academy, Doha, Qatar. 2Australian Institute of Sport, Canberra, Australia. 3Victoria University, Melbourne, Australia. 4South Australian Sports Institute, Adelaide, Australia. 5Bayreuth University, Bayreuth, Germany. (Sponsor: Christopher J Gore, FACSM)
Email: jvaughn@kent.edu
(No relationships reported)

Board #102 2:00 PM - 3:30 PM
Resistance Exercise In Hypoxia Combined With Blood Flow Restriction
Olivier Girard1, Marin Purnelle2, Sarah J. Willis3, Grégoire P. Millet4.
1Aspetar Orthopaedic and Sports Medicine Hospital, Doha, Qatar. 2Lansanne University, Lansanne, Switzerland. 3Clermont University, Clermont-Ferrand, France. 4Bayreuth University, Bayreuth, Germany. (Sponsor: Robert F Chapman, FACSM)
Email: oliv.girard@gmail.com
(No relationships reported)
**P64 Final Program**

925 Board #104 2:00 PM - 3:30 PM
Effects of Hypobaric and Normobaric Hypoxia on Mitochondrial Related Gene Expression
Robert J. Shute, Roksana B. Zak, Brent C. Ruby, FACSM, John C. Quindry, FACSM, Dustin R. Slivka, FACSM. 1University of Nebraska at Omaha, Omaha, NE. 2University of Montana, Missoula, MT. (Sponsor: Dustin Slivka, FACSM)
(No relationships reported)

926 Board #105 2:00 PM - 3:30 PM
Effects of Hypobaric and Normobaric Hypoxia on Myogenic and Proteolytic Gene Expression in Humans
Caleb Ross, Robert Shute, Roksana Zak, Brent Ruby, FACSM, John Quindry, FACSM, Dustin Slivka, FACSM. 1University of Nebraska at Omaha, Omaha, NE. 2University of Montana, Missoula, MT. (Sponsor: Dr. Dustin Slivka, FACSM)
(No relationships reported)

927 Board #106 2:00 PM - 3:30 PM
Prior Heat or Hypoxic Acclimation Does Not Attenuate the Cytokine Response to Hypoxic Exercise
Ben J. Lee, Rob S. James, Charles D. Thake. 1University of Chichester, Chichester, United Kingdom. 2Coventry University, Coventry, United Kingdom. Email: b.lee@chi.ac.uk
(No relationships reported)

928 Board #107 2:00 PM - 3:30 PM
Validity of the Load Velocity for Power Resistance Training Adjustment at Real Moderate Altitude
Lara Rodríguez-Zamora, José Antonio Morales-Artacho, Amador García-Ramón, Pérez-Castilla Alejandro, Paulino Padiña, Belén Feriche. 1Mid Sweden University, Östersund, Sweden. 2University of Granada, Faculty of Sport Sciences, Granada, Spain. Email: lara.rodriguez.zamora@gmail.com
(No relationships reported)

929 Board #108 2:00 PM - 3:30 PM
Effects Of Supplemental Oxygen On Submaximal And Maximal Cycling Performance At Altitude
Kathryn Bell, Andrew W. Subadhi, FACSM. University of Colorado Colorado Springs, Colorado Springs, CO. (Sponsor: Andrew Subadhi, FACSM)
Email: Kbel2@uccs.edu
(No relationships reported)

930 Board #109 2:00 PM - 3:30 PM
Cerebral and Skeletal Muscle Oxygen Response During Exercise With and Without an Altitude Simulation Mask
Alexander Johnson, Reid Nelson. Concordia University Wisconsin, Mequon, WI. (No relationships reported)

931 Board #110 2:00 PM - 3:30 PM
Influence of Exercise Modality on Hypoxia-Mediated Decrements in Endurance Exercise Performance
Jeremy K. Theisen, Nathan C. Grimm, Simon P. Fredericks, Raj Trikha, Alissa A. Ackerman, Christopher Bell. Colorado State University, Fort Collins, CO. (Sponsor: Raoul Reiser, FACSM)
Email: jtheisen@colorado.edu
(No relationships reported)

932 Board #111 2:00 PM - 3:30 PM
Effect of Acute Simulated Altitude Exposure on Exercise Postexercise Oxygen Consumption
James W. Navalta, FACSM, Elizabeth A. Tanner, Debra K. Tacad, Nathaniel G. Bodell. University of Nevada, Las Vegas, Las Vegas, NV. Email: james navalta@unlv.edu
(No relationships reported)

**ACSM 64th Annual Meeting**

933 Board #112 2:00 PM - 3:30 PM
Efficacy of Normobaric Intermittent Hypoxic Training to Improve $\text{VO}_{2\text{max}}$ During Acute Hypobaric Hypoxia Exposure
John H. Sellers, Taylor M. Monaghan, Jessica A. Schnaiter-Brasche, Michelle M. Miller, Mitchel A. Magrini, Bert H. Jacobson, FACSM. Oklahoma State University, Stillwater, OK. (Sponsor: Bert H. Jacobson, PhD, FACSM)
Email: john.h.sellers14.mil@mail.mil
(No relationships reported)

934 Board #113 2:00 PM - 3:30 PM
Maximum Oxygen Consumption Returns to Sea Level Values after Two weeks of Altitude Acclimatization in a Large Multi-Year Study
John E. Davis. Alma College, Alma, MI. Email: davisj@alma.edu
(No relationships reported)

935 Board #114 2:00 PM - 3:30 PM
Does Arterial Oxyhemoglobin Saturation Influence the Hemoglobin Mass-V$\text{O}_2$ Peak Relationship in Endurance Athletes at Moderate Altitude?
Jesse A. Goodrich, Benjamin J. Ryan, William C. Bymes, FACSM. University of Colorado Boulder, Boulder, CO. (Sponsor: William C. Bymes, FACSM)
(No relationships reported)

936 Board #115 2:00 PM - 3:30 PM
Cardiopulmonary Responses, Brain And Muscle Oxygenation During Incremental Exercise On Acute Hypoxia And Hypoxia
Jin Uchimaru, Xue Wu, I-Chen Yu, Hidekazu Takemura, Hirohioko Takahashi, Shozo Suzuki. Sendai University, Sendai, Japan. Email: jn-uchimaru@sendai-u.ac.jp
(No relationships reported)

937 Board #116 2:00 PM - 3:30 PM
Passive And Active Intermittent Hypoxic Exposure Pre-acclimatization Does Not Alter Heart Rate Variability At Altitude.
Elisabeth M. Board, Theocharis Isopoulou, Amanda Seims, Max Garrard, Ingle Lee. 1University of Sunderland, Sunderland, SR1 3SD, United Kingdom. 2Leeds Beckett University, Leeds, LS6 3QS, United Kingdom. 3University of Sunderland, Kingston-upon-Hull, HU9 7RX, United Kingdom. Email: lisa.wood@sunderland.ac.uk
(No relationships reported)

938 Board #117 2:00 PM - 3:30 PM
Hematological Response to Uncontrolled Use of Altitude Training by Elite Distance Runners
Daniel P. Wilhite, Joshua Foss, Tyler Noble, Daniel Bergland, James Stray-Gundersen, FACSM, Robert F. Chapman, FACSM. 1Indiana University, Bloomington, IN. 2Volt Sports Lab, Flagstaff, AZ. 3US Ski and Snowboard Association, Park City, UT. (Sponsor: Robert F. Chapman, FACSM)
Email: dpwilhite@indiana.edu
(No relationships reported)

939 Board #118 2:00 PM - 3:30 PM
No Sex Differences in the Cardiac Response to Acute Normobaric Hypoxia
Wesley K. Lefferts, Matthew C. Babcock, Matthew Tiss, Tom D. Brutsaert, Kevin S. Heffernan. Syracuse University, Syracuse, NY. (Sponsor: Patricia Fehling, FACSM)
Email: wleffert@syr.edu
(No relationships reported)
Board #126 2:00 PM - 3:30 PM
Performance and Muscle Damage Responses during Repeated Sprint Exercise in Hypoxia among Athletes
Nobukazu Kasai, Chihiro Kojima, Daichi Sumi, Akiko Ikutomo, Kazushige Goto. Ritsumeikan University, kusatsu, Japan. (Sponsor: Robert Kraemer, FACSM)
Email: nobunbun100@gmail.com
(No relationships reported)

Board #127 2:00 PM - 3:30 PM
Factors Predicting Performance during a High Altitude Hike
1Alma College, Alma, MI. 2CU School of Medicine, Aurora, CO. 3Altitude Research Center CU School of Medicine, Aurora, CO. (Sponsor: Andrew Subudhi, FACSM)
Email: brownl@alma.edu
(No relationships reported)

B-64 Free Communication/Poster - Blood Flow
Wednesday, May 31, 2017, 1:00 PM - 6:00 PM
Room: Hall F

Board #128 3:30 PM - 5:00 PM
Prolonged Improvement In Hemodynamic Parameters At Rest And During Stress Testing After High-intensity Interval Training
Sascha Ketelhut1, Florian Milatz2, Walter Heise1, Reinhard G. Ketelhut, FACSM. 1Martin-Luther-University Halle-Wittenberg, Halle (Saale), Germany. 2German Rheumatism Research Center, Berlin, Germany. 3Charité Universitätsmedizin Berlin, Berlin, Germany. 4Medical Center Berlin, Berlin, Germany. (Sponsor: Reinhard G. Ketelhut, FACSM)
Email: sascha.ketelhut@sport.uni-halle.de
(No relationships reported)

Board #129 3:30 PM - 5:00 PM
Arterial Compliance Response To Aerobic Exercise With and Without Blood Flow Restriction In Pre-hypertensive Males
Murat Karabulut1, Margarita Gonzalez2, Brittany Esparza2, Ulku Karabulut3, Ryan Russell1, Michael G. Bemben, FACSM. 1University of Texas Rio Grande Valley, Brownsville, TX. 2University of Oklahoma, Norman, OK. (Sponsor: Michael G. Bemben, FACSM)
Email: murat.karabulut@utrgv.edu
(No relationships reported)

Board #130 3:30 PM - 5:00 PM
Central Cardiovascular Hemodynamics and Vascular Stiffness during Handgrip Exercise with and without Blood Flow Restriction
Edward T. Kelley1, Jeffrey D. Miller1, Lee Stoner1, Daniel P. Credeur1. 1University of Southern Mississippi, Hattiesburg, MS. (Sponsor: Robert Roach, FACSM)
Email: edward.kelley@usm.edu
(No relationships reported)

Board #131 3:30 PM - 5:00 PM
Acute Effects of Aerobic Exercise with Blood Flow Restriction on Pulse Wave Velocity
Brittany N. Esparza, Margarita Gonzalez, Patrick Murphy, Danny Dominguez, Murat Karabulut. University of Texas at Rio Grande Valley, Brownsville, TX.
(No relationships reported)

Board #132 3:30 PM - 5:00 PM
Exercise-Induced Blood Flow Patterns Changes Based on Lactate Levels
Robert Pawlak, Brycen J. Ratcliffe, Caleb Harrison, Francisco Morales, Alvaro N. Gurovich, FACSM. Indiana State University; Terre Haute, IN. (Sponsor: Alvaro N Gurovich, FACSM)
Email: rpw@lucy.indstate.edu
(No relationships reported)
Board #139
3:30 PM - 5:00 PM
Body Composition And Bone Mineral Density Of Division I Collegiate Track And Field Athletes
Donald R. Dengel, FACSM1, Kathryn A. Keller1, Aaron F. Carbuah2, Philip R. Stanforth3, Jonathan M. Oliver1, Tyler A. Boschi1.
1University of Minnesota, Minneapolis, MN. 2University of Kansas, Lawrence, KS. 3University of Texas at Austin, Austin, TX. 4Texas Christian University, Fort Worth, TX.
Email: dengel001@umn.edu
(No relationships reported)

Board #140
3:30 PM - 5:00 PM
A Comparison of Body Composition Methods Across Two Phases of the Menstrual Cycle.
Cherilyn Mc Lester, Courtney Hicks, Tiffany Ensmat, John Mc Lester, FACSM. Kennesaw State University, Kennesaw, GA. (Sponsor: John R. Mc Lester, FACSM)
(No relationships reported)

Board #141
3:30 PM - 5:00 PM
A-mode and B-mode Ultrasound Measurement of Subcutaneous Fat Thickness: A Cadaver Analysis Validation Study
Dale R. Wagner, Brennan J. Thompson, D Andy Anderson. Utah State University, Logan, UT. (Sponsor: Edward Heath, FACSM)
Email: dale.wagner@usu.edu
(No relationships reported)

Board #142
3:30 PM - 5:00 PM
Effect of Water Consumption and Moderate Intensity Exercise on Body Composition Measures
Brian Tyo. Columbus State University, Columbus, GA.
Email: briantyo@gmail.com
(No relationships reported)

Board #143
3:30 PM - 5:00 PM
Predictive Validity Of The Body Adiposity Index In Obese Adults Using Dual-Energy X-Ray Absorptiometry
Email: katherine.gonzalez@docentes.umb.edu.co
(No relationships reported)

Board #144
3:30 PM - 5:00 PM
A Longitudinal Retrospective Study of Body Composition Trends in Police Recruits
Haley O. Norris1, Robert W. Boyle, FACSM, Elizabeth H. Seldomridge1, Austin C. Smith2, Glenn R. Jones2, Michele A. Parker1. 1University of North Carolina Wilmington, Wilmington, NC. 2Charlotte-Mecklenburg City Government, Wilmington, NC.
Email: hon383@uncw.edu
(No relationships reported)

Board #145
3:30 PM - 5:00 PM
Creating an Overall Body Composition Index to Predict 1.5-Mile Run Performance among University Students
Wenhao Liu, FACSM, Istvan Kovacs, Ethan E. Hull. Slippery Rock University, Slippery Rock, PA.
Email: wenhao.liu@srwu.edu
(No relationships reported)

Board #146
3:30 PM - 5:00 PM
Accuracy of Commercial Body Composition Scales Versus Clinical Dual-Energy X-ray Absorptiometry and Bioelectrical Impedance Analysis
Erica Sander, Bennett K. Ng, Eric Yu, Bo Fun, En Yong Liu, Leila Kazemi, John A. Shepherd. UCSF, San Francisco, CA.
Email: John.Shepherd@ucsf.edu
(No relationships reported)
Board #147 3:30 PM - 5:00 PM
Relationships Between Bodpod And Field Assessments Of Body Composition In NAIA Athletes
Kaitlyn L. Kelpe1, Andy P. Bennett, Christopher A. Fabs, Lindy M. Rosnow. Lindenwood University - Belleville, Belleville, IL. Email: kelp93@yahoo.com
(No relationships reported)

Board #148 3:30 PM - 5:00 PM
The Effects of a Periodized Resistance Training Program on Body Composition of ROTC Cadets
Straughn Marisa1, John D. Wallopl, Lauren Adloffe, Amy Crawley2, Ludmila Cosio-Lima2. 1University of West Florida, Pensacola, FL; 2University of West Florida, Pensacola, FL. Email: mks29@students.uwf.edu
(No relationships reported)

Board #149 3:30 PM - 5:00 PM
Validation of a Three-Dimensional Body Scanner for Body Composition Measures
Michelle M. Harbin. University of Minnesota, Twin Cities, Minneapolis, MN. (Sponsor: Ronald D. Dengel, FACSM) Email: barb0085@umn.edu
(No relationships reported)

Board #150 3:30 PM - 5:00 PM
A Comparison Of DXA And A Joint Diameter-based System For The Measurement Of Body Composition
Jeremy T. Barnes1, Jason D. Waggener1, Jeremy P. Loenneke2, William P. Miller3, Chelsey Gegg1, Kurt W. McDowell1, Lucas K. Schrum1, Kelly D. Barns1. 1University of Scranton, Scranton, PA; 2University of Central Missouri, Warrensburg, MO; 3University of Mississippi, University, MS. Email: jgbarnes@semo.edu, Email: mks29@students.uwf.edu
(No relationships reported)

Board #151 3:30 PM - 5:00 PM
Changes in Anthropometric and Physiological Characteristics of Male Collegiate Rugby Union Players throughout a Season
Edward K. Smith, David Q. Thomas, FACSM, Daniel J. Dodd, Dale D. Brown, FACSM, Kelly R. Laurson, Tyler R. Langosch, Jonathan C. Grimwood, Nathan P. Fillers, Illinois State University, Normal, IL. Email: jgbarnes@semo.edu
(No relationships reported)

Board #152 3:30 PM - 5:00 PM
Effect Of Hydration Status On Body Composition Assessment Using Dual Energy X-ray Absorptiometry And Ultrasound
Paul T. Cutrufello, Michael J. Landram. The University of Scranton, Scranton, PA. (Sponsor: Curt Dixon, FACSM) Email: paul.cutrufello@scranton.edu
(No relationships reported)

Board #153 3:30 PM - 5:00 PM
Fitness Performance Across Ranked Body Composition Groups Assessed by Different Methods
Gabriel A. Benavidez, Peter D. Hart, 59501. Montana State University - Northern, Havre, MT. Email: gabe.benavidez72@gmail.com
(No relationships reported)

Board #154 3:30 PM - 5:00 PM
Skinfolds Thickness And Body Surface Area Evaluated With Anthropometry And Its Relationship With Body Fat
Roberto Gabriel Gonzalez-Mendoza1, Juan R Lopez y Taylor2, Alejandro Gaytan-Gonzalez2, Juan Antonio Jimenez-Alvarado1, Marisol Villagas-Balcazar1, Edith E Jauregui-Ullo1, Francisco Torres-Narajo1, Universidad de Guadalajara, Guadalajara, Mexico. 1Centro de Investigacion Osea y de Composicion Corporal, Guadalajara, Mexico. Email: robertogmg@hotmail.com
(No relationships reported)

Board #155 3:30 PM - 5:00 PM
Association Between Physical Activity, Total Cholesterol, Fasting Blood Glucose, And Body Fat Among Hispanic Males
Ulku Karabulut, Juan Paredes, Danny Dominguez, Margarita Gonzalez, Paloma Mendoza, Murat Karabulut. University of Texas Rio Grande Valley, Brownsville, TX. Email: ulku.karabulut@utrgv.edu
(No relationships reported)

Board #156 3:30 PM - 5:00 PM
Validity and Reliability of a Consumer Bioelectrical Impedance Analysis Scale
Dulce H. Gomez, Kelly M. Hood, Jennifer Kirk-Sorow, Kendrick Uong, John Farmer, IV, Matthew Lee, James R. Bagley, Marialice Kern, FACSM. San Francisco State University, San Francisco, CA. (Sponsor: Marialice Kern, FACSM) Email: dgomez25@mail.sfsu.edu
(No relationships reported)

Board #157 3:30 PM - 5:00 PM
Interrater Reliability For Dxa And Bia Analysis For Measuring Total And Regional Lean Mass
Taylor Boyett, Trisha A. VanDusseldorp, Garrett M. Hester, Yuri Feito, FACSM, Gerald T. Mangine. Kennesaw State University, Kennesaw, GA. (No relationships reported)

Board #158 3:30 PM - 5:00 PM
Effects Of Undulating Periodization On Physical Fitness And Body Composition In Women Practitioners Of Hydrogymnastics
Daniela G.M. Bueno, Marcelo M. Nascimento, Wonder H. Passoni, Stefani A.M. dos Reis, Renato A. de Souza, Elisângela Silva, Wagner Z. de Freitas, Dênis B. da Silva. IF'SULDEMINAS, Muzambinho, Brazil. (No relationships reported)

Board #159 3:30 PM - 5:00 PM
Relationship of Fat-Free Mass and Fat Mass to Body Weight in College Male Athletes
Richard M. Schumacher. Truman State University, Kirksville, MO. Email: richieschue@live.com
(No relationships reported)

Board #160 3:30 PM - 5:00 PM
Relationship Of Fat-free Mass And Fat Mass To Body Weight In College Female Athletes
Taylor Burlis1, Heather Hughes1, William F. Breehue, FACSM, Jerry L. Mayhew1, Jana L. Arabas1, Amanda Starks1. 1Truman State University, Kirksville, MO; 2A. T. Still University, Kirksville, MO. Email: tmb8425@truman.edu
(No relationships reported)

Board #161 3:30 PM - 5:00 PM
The Importance Of Body Composition In The National Hockey League Testing Combine
Nathan Chiarelli, Patrick Delisle-Houde, Ryan E. Reid, Ross E. Andersen, FACSM, McGill University, Montreal, QC, Canada. (Sponsor: Ross E. Andersen, FACSM) Email: nathan.chiarelli@mail.mcgill.ca
(No relationships reported)

Board #162 3:30 PM - 5:00 PM
Reference Standards for Lean Mass Measures using GE Dual Energy X-ray Absorptiometry
Mary T. Imboden1, Ann M. Swartz, FACSM, Matthew P. Harber, FACSM, Leonard A. Kaminsky, FACSM. 1Ball State University, Muncie, IN; 2University of Wisconsin-Milwaukee, Milwaukee, WI. (Sponsor: Matthew Harber, FACSM) Email: mstuttle2@bsu.edu
(No relationships reported)
Nutritionall, LLC, Lisle, IL.
Kaylee Isfort1. 1
Craig Broeder, FACSM3. 1
Email: zachary.bell135@icloud.com
(Sponsor: James Navalta PhD., FACSM)

University of Minnesota,
J. Perry, Chad M. Pearson, Tyler A. Bosch.
Effect of Body Composition and Mass Adjustments on
Board #170
Email: daniel.flegg@mail.mcgill.ca
(Sponsor: Ross E. Andersen, FACSM)

Dylan S. North, Nathan R. Paquet, Jeremy L. Knous, Adam
Players
Comparing Body Composition Changes Between Skinfold
(No relationships reported)

Alexis A. Neugebauer, Hyun-Sung An, Jung-Min Lee. University of
Nebraska at Omaha, Omaha, NE.
Email: aneugeba@unomaha.edu
(No relationships reported)

Alexa Suida1, Peter J. Chomentowski, III1, Amanda J. Salacinski2,
Craig Broeder, FACSM. 1: Northern Illinois University, DeKalb, IL. 2: University of Massachusetts Lowell, Lowell, MA. Exercising
Nutritionall, LLC, Lisle, IL. (Sponsor: Dr. Craig Broeder, FACSM)
(No relationships reported)

Jane A. Groetsch1, Ashley N. Triplett1, Amy C. Ebbing1, Matthew
R. Green1, Christopher P. Connolly1, David P. Carrier1, James M. Pivarnik, FACSM1. 1: Michigan State University, East Lansing, MI.
2: Ohio Dominican University, Columbus, OH. 3: Washington State University, Pullman, WA.
Email: groetsc1@msu.edu
(No relationships reported)

Christopher W. Bach, Jack W. Ramsone, FACSM. University of
Nebraska - Lincoln, Lincoln, NE.
Email: chriswbach@gmail.com
(No relationships reported)

Bei Wang, Chen Wang, Bin Hou, Xue Ren, Yongmei Wang, Jinglong
Ye, Dao Wang, Fenglei Qian. SHRIS, Shangh, China.
Email: 33453189@qq.com
(No relationships reported)

Sergio R. Vieira, João Pedro da Silva Junior, Luís Carlos de Oliveira,
Rafael Benito Mancini, Timoteo Leandro de Araujo, Victor Matsudo.
CELAFISCS, São Caetano do Sul, Brazil.
Email: 33453189@qq.com
(No relationships reported)

Dylan S. North, Nathan R. Paquet, Jeremy L. Knous, Adam
Players
Comparing Body Composition Changes Between Skinfold
(No relationships reported)

Dylan S. North, Nathan R. Paquet, Jeremy L. Knous, Adam
Players
Comparing Body Composition Changes Between Skinfold
(No relationships reported)

Dylan S. North, Nathan R. Paquet, Jeremy L. Knous, Adam
Players
Comparing Body Composition Changes Between Skinfold
(No relationships reported)

Dylan S. North, Nathan R. Paquet, Jeremy L. Knous, Adam
Players
Comparing Body Composition Changes Between Skinfold
(No relationships reported)
American College of Sports Medicine

Board #178 2:00 PM - 3:30 PM
Effects of Exercise Program on Breast Cancer Patients with Androgen Deprivation Therapy
Jung Jun Lim1, Yeon Soo Kim2, Hong Sang Moon3, Gyu Sik Kim2, Hong Yong Choi4, Duck chul Lee5, FACSM6, Sang iwa Lee7, Jung Woon Kim8, Joon sik Kim9, 1Seoul National University, Seoul, Korea, Republic of; 2Hanyang University, Seoul, Korea, Republic of; 3Iowa state university, Iowa, Ames, IA. (Sponsor: Duck Chul Lee, FACSM)
Email: injung87@naver.com
(No relationships reported)

Board #179 2:00 PM - 3:30 PM
Functional Capacity Of Gastrointestinal Cancer Patients - A Pre-therapy Comparison To Breast Cancer Patients And Healthy Women
Lutz Vogt1, Katrin Stücher1, Claus Bolling2, Axel Dignasse3, Winfried Banzer, FACSM4. 1J.W.Goethe-University, Frankfurt/Main, Germany; 2Agaplesion Markus Hospital, Frankfurt/Main, Germany; 3University of Rochester, Rochester, NY. (Sponsor: Winfried Banzer, FACSM)
Email: Calvin_Cole@urmc.rochester.edu
(No relationships reported)

Board #180 2:00 PM - 3:30 PM
Feasibility of Exercise for Improving Inflammation in Advance Stage Prostate Cancer Patients
Calvin Lloyd Cole, PhD., Ian Kleckner, PhD., Sarah Kems, PhD., MPH, Matthew Asare, PhD., Po-Ju Lin, PhD., Charles Kamen, PhD., Michelle Janelis, PhD., MPH, Karen Mustian, PhD. 1University of Rochester, Rochester, NY (Sponsor: Leslie J. Brandon, PhD, FACSM)
Email: Calvin_Cole@urmc.rochester.edu
(No relationships reported)

Board #181 2:00 PM - 3:30 PM
Effects Of Exercise Training On Physiological And Psychological Measurements Of Cancer-related Fatigue
Trista L. Olson3, Jessica M. Brown1, Kevin D. Dames2, Jeremy D. Smith3, Reid Hayward. 1St. Cloud State University, St. Cloud, MN. 2University of Northern Colorado, Greeley, CO. 3SUNY Cortland, Cortland, NY.
Email: tolson@stcloudstate.edu
(No relationships reported)

Board #182 2:00 PM - 3:30 PM
Validity of The Six-Minute Walk Test For Predicting VO2peak in Cancer Survivors
Alexandra Schumacher, Daniel Shackelford, Deandra Elcock, Jessica Brown, Reid Hayward. 1University of Northern Colorado, Greeley, CO
(No relationships reported)

Board #183 2:00 PM - 3:30 PM
Relationship between Survivorship Time and Physical Activity Level in Puerto Rican Breast Cancer Survivors
Marta I. Amaral-Figueroa, Jennifer Morales-Cruz, Roberto Velez-Diaz. University of Puerto Rico, San Juan, Puerto Rico.
Email: marta.amaral1@upr.edu
(No relationships reported)

Board #184 2:00 PM - 3:30 PM
Feasibility Of Supervised Aerobic Interval Exercise Training Following Treatment For Breast Cancer
Savanna Rowe1, Amy A. Kirkham2, Kelecy A. Bland1, Cheri L. Van Patten1, Alis Bonsignore1, Don C. McKenzie1, Karen A. Gelmon2, Calvin Lloyd Cole, PhD., Ian Kleckner, PhD., Sarah Kems, PhD., MPH, Matthew Asare, PhD., Po-Ju Lin, PhD., Charles Kamen, PhD., Michelle Janelis, PhD., MPH, Karen Mustian, PhD. 1University of Rochester, Rochester, NY (Sponsor: Leslie J. Brandon, PhD, FACSM)
Email: sakico117@gmail.com
(No relationships reported)

Board #185 2:00 PM - 3:30 PM
Effect of Combined Aerobic and Resistance Exercise on Remnant Cholesterol in Breast Cancer Survivors
Kyuwan Lee, Nathalie Sami, Christina M. Dieli-Conwright. University of Southern California, Los Angeles, CA.
Email: kyuywanle@usc.edu
(No relationships reported)

Board #186 2:00 PM - 3:30 PM
Breast Cancer- And Metabolic-related Predictors Of Vo2peak Amongst Active Post-menopausal Women
Amy A. Kirkham1, Kristin L. Campbell1, Don C. McKenzie1. 1University of Alberta, Edmonton, AB, Canada. 2University of British Columbia, Vancouver, BC, Canada.
Email: amy.kirkham@abc.ca
(No relationships reported)

Board #187 2:00 PM - 3:30 PM
The Effects of Exercise Program on Quality Of Life and Fatigue Level During Autologous Hematopoietic Stem Cell Transplantation
Vesile Yildiz Kabak, Yasin Ekinci, Songul Atasavun Uysal, Tulin Duger. HACETTEPE UNIVERSITY, ANKARA, Turkey.
Email: vesile_yldze@hotmail.com
(No relationships reported)

B-67 Free Communication/Poster - Carbohydrate Metabolism and Exercise
Wednesday, May 31, 2017, 1:00 PM - 6:00 PM
Room: Hall F

Board #188 2:00 PM - 3:30 PM
Metabolic Differences Between A Bout Of Eccentric, Concentric And Traditional Resistance Exercise
Stephen M. Fischer, Jon Stavres, John McDaniel. Kent State University, Kent, OH.
(No relationships reported)

Board #189 2:00 PM - 3:30 PM
The Influence of a Single Bout of High-Intensity Interval Exercise on Postprandial Lipemia and Glycemia
James Rowe, Stephen Decker. Stephen F. Austin State University, Nacogdoches, TX
(No relationships reported)

Board #190 2:00 PM - 3:30 PM
Effects of Acclimatization to High Altitude on Exogenous Carbohydrate Oxidation During Steady-State Exercise
Andrew J. Young, FACSM, Claire E. Berryman, Allyson N. Derosier, Robert W. Kenefick, FACSM, Marques A. Wilson, Stefan M. Pasikos, FACSM. US Army Research Institute of Environmental Medicine, Natick, MA.
Email: andrew.j.young.ctr@mail.mil
(No relationships reported)

Board #191 2:00 PM - 3:30 PM
Pre-exercise Carbohydrate Ingestion and Transient Hypoglycemia During Exercise: Effects of Fasting vs. Feeding
Saki Kondo1, Kumpei Tanisawa2, M. Pasiakos, FACSM. 1The University of Tokyo, Tokyo, Japan. 2Waseda University, Saitama, Japan.
Email: sakico117@gmail.com
(No relationships reported)
### Board #192 2:00 PM - 3:30 PM
**Pentoxifylline And Glucose Responses To Acute High-intensity Interval Exercise Vs. Continuous Moderate-intensity Exercise**
Katelyn M. Dodge, Michael Whitehurst, FACSM, Aaron L. Slusher, Brandon G. Fico, Arun Maharaj, James T. Mock, Chun-Jung Huang, FACSM. Florida Atlantic University, Boca Raton, FL. Virginia Commonwealth University, Richmond, VA. (Sponsor: Chun-Jung Huang, FACSM)

(No relationships reported)

### Board #193 2:00 PM - 3:30 PM
**Effects of Varying Physical Activity Level on Glucose Tolerance Testing**
Gabrielle A. Volk, Michael A. Deal, Adam J. Meisler, Jenna M. Karrow, Alex P. Good, Kevin D. Ballard, Kyle L. Timmernman, Miami University, Oxford, OH. (Sponsor: Helaine Alessio, FACSM)

Email: volkg@miamioh.edu

(No relationships reported)

### Board #194 2:00 PM - 3:30 PM
**Prior Acute Resistance Exercise Enhances Postprandial Fat Oxidation in Response to a High-Fructose Meal**
Christopher Meltby, Andrea Wysong, Jeffrey Bourquin, Jessie Wilburn, Colorado State University, Fort Collins, CO.

(No relationships reported)

### Board #195 2:00 PM - 3:30 PM
**Differential in Aerobic Capacity Among Collegiate Distance Runners Consuming a Low Carbohydrate Diet**
Marissa N. Baranauskas, Brian Miller, Jordan T. Olson, Michelle Boltz, Laura Richardson, Matthew Juravich, Ronald Otterstetter, FACSM, Indiana University, Bloomington, IN. The University of Akron, Akron, OH.

Email: marbaran@indiana.edu

(No relationships reported)

### Board #196 2:00 PM - 3:30 PM
**The Physiological Effects of 12-Weeks of Ketogenic Dieting While Cross-Training**
Paul A. Roberson, Wesley C. Kephart, Coree Pledge, Petey W. Munnford, Kevin W. Huggins, Jeffrey S. Martin, Kaelin C. Young, Ryan P. Lowery, Jacob M. Wilson, Michael D. Roberts, Auburn University, Auburn, AL. Applied Sports Performance Institute, Tampa, FL.

(No relationships reported)

### Board #197 2:00 PM - 3:30 PM
**7,12-dimethylbenz(a)anthracene (DMBA) & High Fat High Sugar Diet Decrease Physical Activity in Female Mice**
Jorge Z. Granados, Ayland C. Letsinger, Heather L. Vellers, Victor A. Garcia, Jeremiah D. Velasco, Nicholas R. Walker, Madison Spier, Isabel Lamertz, Robin Fuchs-Young, J. Timothy Lightfoot, FACSM, Texas A&M University, College Station, TX. Texas A&M University Health Science Center, College Station, TX. (Sponsor: J. Timothy Lightfoot, FACSM)

Email: jgranados@tamu.edu

(No relationships reported)

### Free Communication/Poster - Cardiovascular
**Board #198 2:00 PM - 3:30 PM**
**Lower-body Compression On Leg Vessel Morphology And Systemic Hemodynamic Responses In Healthy Participants**
Daniel C. W. Lee, Helen K.W. Law, Kin Khaw, Stephen H.S. Wong, FACSM, Shara W.Y. Lee, The Chinese University of Hong Kong, Hong Kong, Hong Kong. The Hong Kong Polytechnic University, Hong Kong, Hong Kong.

Email: dcllee@cuhk.edu.hk

(No relationships reported)
Board #207
2:00 PM - 3:30 PM
Association of Cardiovascular Fitness and Metabolic Syndrome in Male First Responders
Steven E. Martin, Kalen Johnson, Alison McGuire, Allison Donnell, Daniel Mohrke, John Green, FACSM, Stephen Crouse, FACSM.
Texas A&M Univ., College Station, TX. (Sponsor: Stephen F. Crouse, FACSM)
Email: semartin@tamu.edu
(No relationships reported)

Board #208
2:00 PM - 3:30 PM
Relationships Among Aerobic Capacity, Cardiovascular Fatigue Thresholds, And 1.5 Mile Run Times In Rote Cadets
Chantel C. Anthony, Cameron S. Mackey, Tyler W.D. Muddle, Joshua J. Riffe, Nathaniel D.M. Jenkins. Oklahoma State University, Stillwater, OK.
(No relationships reported)

Board #209
2:00 PM - 3:30 PM
Heart Rate Variability of College-level Athletes Exposed to Different Fatigue Protocols
Jose T. Quezada1, German Hernandez2, Gustavo Sierra2, Luis F. Reynoso1, Gilda Mendoza2, Edson F. Estrada2. 1Universidad Autonoma de Nuevo Leon, San Nicolas, Mexico. 2Universidad Autonoma de Ciudad Juarez, Ciudad Juarez, Mexico.
Email: minaquezada21@gmail.com
(No relationships reported)

Board #210
2:00 PM - 3:30 PM
The Effect Of Temperature And Experience On Acute Musculoskeletal And Cardiovascular Responses During Yoga.
Elizabeth Norris, Donald Hoover, Kayla Alveys, Ashley Bowers, Jennifer Grothe, Vincent Erica. Western Kentucky University, Bowling Green, KY.
Email: elizabeth.norris@wku.edu
(No relationships reported)

Board #211
2:00 PM - 3:30 PM
Improved Muscular Strength Did Not Improve Resting Cardiac Vagal Activity In Young Healthy Men
Pia Kaikkonen, Juha Ahtiainen. Tampere Research Center of Sports Medicine, Tampere, Finland. University of Jyväskylä, Jyväskylä, Finland.
(No relationships reported)

Board #212
2:00 PM - 3:30 PM
Risk Factors for Cardiovascular Disease Among University Employees
Laura C. Dobler, Kenneth R. Ecker, FACSM. University of Wisconsin, River Falls, WI. (Sponsor: Kenneth Ecker, FACSM)
Email: kenneth.ecker@uwrf.edu
(No relationships reported)

Board #213
3:30 PM - 5:00 PM
High-Intensity Interval Training Does Not Promote Fibroinodiytic Adaptations in Healthy Men
Paul R. Nagelkirk, James Sackett, Dan Farrell. Ball State University, Muncie, IN.
Email: pnmagelkirk@bsu.edu
(No relationships reported)

Board #214
3:30 PM - 5:00 PM
Acute Exercise-induced Angiogenic T Cell Redistribution Is Attenuated In Older Men
Mark Ross1, Lesley Ingram1, Islay Cranston1, Guy Taylor2, Daniel West3, Graham Wright2, George Chambers3, Richard Simpson, FACSM, Geraint Florida-James1. 1Edinburgh Napier University, Edinburgh, United Kingdom. 2Newcastle University, Newcastle, United Kingdom. 3University of Houston, Houston, TX. (Sponsor: Richard Simpson, FACSM)
Email: m.ross@napier.ac.uk
(No relationships reported)

Board #215
3:30 PM - 5:00 PM
Serum Angiogenic Capacity and Circulating MicroRNAs in Trained and Inactive Young, Healthy Individuals
Ryan M. Sapp1, Rian Q. Landers-Ramos2, Espen E. Spangenburg3, Steven M. Jay1, James M. Haggberg, FACSM. 1University of Maryland, College Park, MD. 2University of Maryland School of Medicine, Baltimore, MD. 3East Carolina University, Greenville, NC.
Email: rsapp@umd.edu
(No relationships reported)

Board #216
3:30 PM - 5:00 PM
Both Exercise And Calorie Restriction Increase Mitochondrial Membrane Potential Of Myocardium In Aging SD Rats
Mingchen Yu1, Xiang lin1, Jian Zhang1, Yang Ren1, Li Wen1, Yong Zang1, Lili Ji, FACSM2. 1Tianjin University of Sport, Tianjin, China. 2University of Minnesota, Twin cities, MN. (Sponsor: Lili Ji, FACSM)
Email: wenli34@hotmail.com
(No relationships reported)

Board #217
3:30 PM - 5:00 PM
Plasma Metabolomics in Response to an Acute Bout of Exercise in Adolescents Boys and Girls
(No relationships reported)

Board #218
3:30 PM - 5:00 PM
Microparticles Are Linked to Post-Prandial Hyperglycemia and Cardiovascular Disease Risk in Adults with Prediabetes
Natalie ZM Eichner, Nicole M. Gilbértson, Christine Rudy, Eugene J. Barrett, Arthur Weltman, FACSM, Uta Erdbrügger, Steven K. Malin. University of Virginia, Charlottesville, VA. (Sponsor: Dr. Arthur Weltman, FACSM)
Email: nz38bz@virginia.edu
(No relationships reported)

Board #219
3:30 PM - 5:00 PM
In Vitro Exercise, Laminar Shear Stress, Attenuates Basal Mmp-2 Dysfunction In Cultured African American Endothelial Cells
Marc D. Cook, Adelola Adeyemo, Maitha Aldokhayyil, Michael Brown, FACSM. University of Illinois at Chicago, Chicago, IL. (Sponsor: Michael Brown, FACSM)
Email: marccook@uic.edu
(No relationships reported)
Board #220 3:30 PM - 5:00 PM

Diabetes Impairs the Ability of Skeletal Muscle Pericytes to Augment Postischemic Neovascularization in Mice

Katherine L. Hayes1, Sarah Witkowski1, Louis M. Messina2.
1University of Massachusetts Amherst, Amherst, MA. 2University of Massachusetts Medical School, Worcester, MA.

Email: klbarbe@kin.umass.edu

(No relationships reported)

Board #221 3:30 PM - 5:00 PM

Differences in Energy Expenditure Between Genders in Ultra-Endurance Nordic Skiing

Michelle M. Johannsen, Kenneth Shin, Robert H. Coker, FACSM.
University of Alaska - Fairbanks, Fairbanks, AK.

Email: mmjohannsen@alaska.edu

(No relationships reported)

Board #222 3:30 PM - 5:00 PM

A Thermochromic Leuco Dye Coated Glove for the Prevention of Frostbite in Cold Environments

Craig Verdin, Nilin Rao, Nicholas Williams, Joseph Albright, Michelle Harless, Michael Dziewit, Ellen Glickman, FACSM.
Kent State University, Kent, OH. (Sponsor: Ellen Glickman, PhD FACSM, FACSM)

(No relationships reported)

Board #223 3:30 PM - 5:00 PM

Evaluation of Three Rewarming Techniques Following Cold Water Immersion in Military Personnel.

Naval Health Research Center, San Diego, CA.

(No relationships reported)

Board #224 3:30 PM - 5:00 PM

Performance of Intravenous Insertion is Impaired Following Cold Water Immersion in Military Providers

Naval Health Research Center, San Diego, CA.

Email: christinacoopero44@gmail.com

(No relationships reported)

Board #225 3:30 PM - 5:00 PM

BMI Of San Francisco Cold-water Swimmers: Comparisons To North American And International Masters Athletes

Kent J. Adams, FACSM1, Brendan T. Crow2, Ellicott C. Matthey2, Trish G. Sevene1, Mark DeBeliso, FACSM1, Thomas J. Nuckton4.
1California State University Monterey Bay, Seaside, CA. 2University of California, Berkeley, Berkeley, CA. 3Southern Utah University, Cedar City, UT. 4California Pacific Medical Center and University of California, San Francisco, San Francisco, CA.

Email: kadam@csumb.edu

(No relationships reported)

Board #226 3:30 PM - 5:00 PM

BMI Of San Francisco Cold-water Swimmers: Comparisons To U.S. And Regional Populations

Trish G. Sevene1, Brendan T. Crow2, Ellicott C. Matthey2, Kent J. Adams, FACSM1, Mark DeBeliso, FACSM1, Thomas J. Nuckton4.
1California State University, Monterey Bay, Seaside, CA. 2University of California, Berkeley, Berkeley, CA. 3Southern Utah University, Cedar City, UT. 4California Pacific Medical Center and University of California, San Francisco, San Francisco, CA.

Email: sevene@csumb.edu

(No relationships reported)

Board #227 3:30 PM - 5:00 PM

Lipolysis, Substrate Metabolism, & Time Trial Performance In Cold Versus Thermoneutral Environments In Trained Cyclists

Brandon D. Willingham1, Chris W. Bach3, Daniel A. Bauer1, Michael J. Ormsbee, FACSM4. 1Institute of Sport Sciences and Medicine, Florida State University, Tallahassee, FL. 2Nebraska Athletic Performance Laboratory, University of Nebraska-Lincoln, University of Nebraska-Lincoln, NE. (Sponsor: Michael J. Ormsbee, FACSM)

(No relationships reported)

Board #228 3:30 PM - 5:00 PM

Leptin, Adiponectin, And Ghrelin Responses To Different Temperature Conditions With Endurance Exercise

Morgan Busboom, Terence Laursen, Robert Shute, Roksana Zak, Matthew Heesch, Nicholas Dinan, Matthew Bukab, D. Taylor La Salle, Dustin Sivlaka, FACSM. University of Nebraska at Omaha, Omaha, NE. (Sponsor: Dustin Sivlka, FACSM)

(No relationships reported)

Board #229 3:30 PM - 5:00 PM

Plasma Interleukin-6 Response to Environmental Temperature with Endurance Exercise

Nicholas Dinan1, Robert Shute2, Terence Laursen2, Matthew Bukab2, D. Taylor La Salle2, Matthew Heesch3, Dustin Sivlka, FACSM4.
1Hastings College, Hastings, NE. 2University of Nebraska at Omaha, Omaha, NE. (Sponsor: Dustin Sivlka, FACSM)

(No relationships reported)

Board #230 3:30 PM - 5:00 PM

Irisin and Fibronectin Type III Domain-Containing 5 Responses to Exercise in Different Environmental Conditions

Rebecca Cuthbert, Matthew Bukab, Matthew Heesch, Robert Shute, Nicholas Dinan, Terence Laursen, D. Taylor La Salle, Dustin Sivlka, FACSM. University of Nebraska at Omaha, Omaha, NE. (Sponsor: Dr. Dustin Sivlka, FACSM)

(No relationships reported)

Board #231 3:30 PM - 5:00 PM

Occupational Specific Strength Testing Enhances the Prediction of Astronaut Related Task Performance

Kyle J. Hackney1, Andrew Taylor2, Christopher J. Kotarsky1, Colin W. Bond2, Daniel L. Ewert2. 1North Dakota State University, Fargo, ND. 2Sanford Sports Science Institute, Fargo, ND.

Email: kyle.hackney@ndsu.edu

(No relationships reported)

Board #232 3:30 PM - 5:00 PM

Acute Effects of Blood Flow Restriction Resistance Exercise in a Head-down Tilt Position on Growth Hormone and Insulin-like Growth Factor-I Release

Susan Lachowski1, Elizabeth Mulliri2, Brian Thompson3, Justin Faller1, Michelle Boland1, Vincent Paolone, FACSM. 1American International College, Springfield, MA. 2Springfield College, Springfield, MA. 3Northeastern University, Boston, MA. (Sponsor: Vincent Paolone, FACSM)

Email: susan.lachowski@aic.edu

(No relationships reported)

Board #233 3:30 PM - 5:00 PM

Peripheral Chemosensitivity is Not Blunted during Head Out Water Immersion


(No relationships reported)

Board #234 3:30 PM - 5:00 PM

Effects of Consecutive, Long-Duration Water Imersions on Skeletal Muscle Performance in Well Trained, Male Divers

Christopher M. Myers1, Jeong-Su Kim, FACSM2, John Floriani3. 1Florida State University, Tallahassee, FL. 2Naval Experimental Dive Unit, Panama City Beach, FL. (Sponsor: Jeong-Su Kim, FACSM)

Email: cmn13c@my.fsu.edu

(No relationships reported)
Board #235  3:30 PM - 5:00 PM  Regional Heat Exchange During a Dry Suit Glove Failure in Cold Water Immersive Diving
Dana M. DiPasquale, Eric R. Bandstra, John F. Florian. Navy Experimental Diving Unit, Panama City, FL. Email: dana.dipasquale.ctr@navy.mil
(No relationships reported)

Board #236  3:30 PM - 5:00 PM  Rear Suspension Decreases Vibration and Impact Transmission in Manual Tilt-in-Space Wheelchairs
Molly J. Hischke, Raoul F. Reiser, II, FACSM. Colorado State University, Fort Collins, CO. (Sponsor: Raoul F. Reiser II, FACSM)
Email: hischkmj@colostate.edu
(No relationships reported)

Board #237  3:30 PM - 5:00 PM  Long-duration Spacelift And Latent Viral Reactivation Alter Plasma Antimicrobial Protein Concentrations.
Guillaume Spielmann1, Mitzi Laughlin2, Hawley Kunz3, Brian Crucian1, Satish K. Mehta2, Duan L. Pierson1, Richard J. Simpson, FACSM1, Louisiana State University, Baton Rouge, LA. (University of Houston, Houston, TX. NASA-JSC, Houston, TX.)
Email: gspielman1@isu.edu
(No relationships reported)

Board #238  3:30 PM - 5:00 PM  Facilitation of Paraspinal Muscles with Kinesio® Tape During Exercise Countermeasures
Kara A. Stone, 58102, Katie Lyman, Bryan Christensen, Joshua Brodersen, Kyle Hackney. North Dakota State University, Fargo, ND.
Email: kara.stone@ndsu.edu
(No relationships reported)

Board #239  3:30 PM - 5:00 PM  Submaximal Exercise Responses Before and During Long Duration Space Flight
Alan D. Moore, FACSM1, Meghan E. Downs2, Alan H. Feiveson2, Shannon L. Jordan1, Stuart M.C. Lee3. Lamar University, Beaumont, TX. (University of Houston, Houston, TX. NASA-JSC, Houston, TX.)
Email: alan.moore@lamar.edu
(No relationships reported)

Board #240  3:30 PM - 5:00 PM  Metabolic and Cardiovascular Indicators of Intensity and Performance during Astronaut Related Test Battery
Christopher J. Kotarsky, Andrew Taylor, Kyle J. Hackney. North Dakota State University, Fargo, ND.
Email: christopher.kotarsky@ndsu.edu
(No relationships reported)

Board #241  3:30 PM - 5:00 PM  Heart Rate and Blood Pressure Regulation before and after 60 Days of Bed Rest
Jessica Koschate1, Uwe Drescher1, Lutz Thieichefener1, Edwin Mulder2, Uwe Hoffmann3. German Sport University Cologne, Cologne, Germany. (German Aerospace Center, Cologne, Germany)
Email: j.koschate@dshs-koeln.de
(No relationships reported)

Board #242  3:30 PM - 5:00 PM  Baroreceptor Unloading Attenuates the Increase in Blood Pressure Elicted by Prolonged Face Cooling
Zachary J. Schlader, James R. Sackett, Suman Sarker, Blair D. Johnson. University at Buffalo, Buffalo, NY. (Sponsor: Dave Hostler, FACSM)
Email: zschlad@buffalo.edu
(No relationships reported)
1070 Board #249 3:30 PM - 5:00 PM
Expression of Strength and Power Relative to Lean Body Mass Impacts Results of Caffeine Intervention
Geoffrey M. Hudson1, Kyle Sprow1, Tara Hanning2, Loretta DiPietro, FACSM1. 1The George Washington University, Washington, DC. 2La Salle University, Philadelphia, PA. (No relationships reported)

1071 Board #250 3:30 PM - 5:00 PM
Effects Of Energy Drink On Power Performance: Meta-analysis
Gina Ok1, Nan Hee Lee1, Hyun Chul Jung2, Soeun Jeon1, Kyungun Kim1, Minsoo Kang, FACSM1, Sukho Lee1. 1Texas A&M-San Antonio, San Antonio, TX. 2The University of Louisiana at Monroe, Monroe, LA. (Sponsor: Minsoo Kang, FACSM) (No relationships reported)

1072 Board #251 3:30 PM - 5:00 PM
Combined Carbohydrate and Caffeine Mouth Rinsing Enhance Anaerobic Power Output in a Reduced Glycogen State
Moah F. Bataineh, Akef M. Taifour, Fahmi D. Mansour. Hashemite University, Zarqa, Jordan. Email: mfbataineh@gmail.com (No relationships reported)

1073 Board #252 3:30 PM - 5:00 PM
Caffeine Supplementation Increases Blood Lactate But Not Muscle Endurance - A Balanced Placebo Design Study
Edgard K. Soares, Giliar L. Garcia, Guilherme E. Molina, Keila E. Fontana. Faculty of Physical Education - University of Brasilia, Brasilia, Brazil. Email: edgardsoares@gmail.com (No relationships reported)

1074 Board #253 3:30 PM - 5:00 PM
Caffeine Withdrawal and Acute Consumption Effects on Reaction Time and Muscular Strength, Power, and Endurance
Kyle Sprow1, Geoffrey M. Hudson1, Tara Hanning2, Loretta DiPietro, FACSM1. 1The George Washington University, Washington, DC. 2La Salle University, Philadelphia, PA. (No relationships reported)

1075 Board #254 3:30 PM - 5:00 PM
The Effects of Caffeine and Pre workout Supplementation on Exercise Repetition during Sets and Muscular Endurance
Michael J. Ryan, Matthew Robinson, Jessica Alsup, Shinichi Asano, Paul Reneau. Fairmont State University, Fairmont, WV. Email: mryan3@fairmontstate.edu (No relationships reported)

1076 Board #255 3:30 PM - 5:00 PM
Caffeine Alters RPE-Based Intensity Production
Tyler Langford1, James Green, FACSM1. 1Middle Tennessee State University, Murfreesboro, TN. (Sponsor: Stephen F. Crouse, FACSM) (No relationships reported)

1077 Board #256 3:30 PM - 5:00 PM
Effects Of Individualized NaHCO3 Ingestion On Peak Alkalosis
Lars R. McNaughton, FACSM, Andy Sparks, Sanjoy Deb, Lewis Gough. Edge Hill University, Ormskirk, United Kingdom. Email: lars.mcnoughton@edgehill.ac.uk (No relationships reported)

1078 Board #257 3:30 PM - 5:00 PM
Impact of Aspartate and Sodium Bicarbonate Supplementation Upon Muscle Contractile Properties within Trained Men
Tyler M. Farney1, Arnold G. Nelson, FACSM1, Christopher M. Hearon, FACSM1, Neil M. Johannsen2, Michael J. MacLellan2. 1Texas A&M University-Kingsville, Kingsville, TX. 2Louisiana State University, Baton Rouge, LA. Email: tyler.farney@tamuk.edu (No relationships reported)

1079 Board #258 3:30 PM - 5:00 PM
The Influence of Alkalosis on Muscle Force and Power in the Triceps Surae and Brachii
Jason Siegler, FACSM, Paul Marshall, Kurt Mudie. Western Sydney University, Sydney, Australia. Email: j.siegler@westernsydney.edu.au (No relationships reported)

1080 Board #259 3:30 PM - 5:00 PM
L-Citrulline Supplementation Did Not Improve Trial or Sprint Repeat Performance in Trained Endurance Cyclists
Kelsey McLaughlin1, Stephen F. Crouse, FACSM1. 1East Carolina University, Greenville, NC. 2Texas A&M University, College Station, TX. (Sponsor: Stephen F. Crouse, FACSM) (No relationships reported)

B-72 Exercise is Medicine®/Poster - EIM - Health Professionals and Vital Signs

1081 Board #260 2:00 PM - 3:30 PM
Evaluation Of Exercise is Medicine From The Perspective Of Fitness Professionals
Taniya S. Nagpal, Liza Statikostas, Harry Prapsavessis, Michelle F. Motola, FACSM. University of Western Ontario, London, ON, Canada. Email: tnagpal@uwo.ca (No relationships reported)

1082 Board #261 2:00 PM - 3:30 PM
Physical Activity Levels and Counseling Practices of Physicians & Patients in a Chilean Sports Medicine Clinic
Sandra Mahecha Matsudo, Guillermo Droppelmann, Fernando Gonzalez. Clinica MEDS Sports Medicine, Santiago, Chile. (No relationships reported)

1083 Board #262 2:00 PM - 3:30 PM
Physician Assistant Students’ Perceptions of the Fitness Industry and Lifestyle Medicine
Alyssa Abreu1, Sarah Keyes2, Mark Faries1. 1Stephen F. Austin State University, Nacogdoches, TX. 2Baylor College of Medicine, Houston, TX. (Sponsor: Dr. John Bartholomew, FACSM) Email: alyssamabreu@yahoo.com (No relationships reported)

1084 Board #263 2:00 PM - 3:30 PM
Effectiveness of the Exercise is Medicine Canada Training Workshops on Physician Counselling and Prescription Practice
Myles W. O’Brien1, Chris A. Shields1, Paul Oh2, Jonathon R. Fowles1. 1Acadia University, Wolfville, NS, Canada. 2Cardiovascular Prevention and Rehabilitation Program, Toronto Rehabilitation Institute/ University Health Network, Toronto, ON, Canada. Email: myles.obrien@dal.ca (No relationships reported)
1085 Board #264 2:00 PM - 3:30 PM
The Effects of Physician Discussion/Recommendation on Physical Activity Behaviors During Pregnancy
Samantha J. Deere, Jessica L. Walker, Meghan Barth, Rebecca A. Schlaff. Saginaw Valley State University, University Center, MI.
Email: sjdeere@svsu.edu
(No relationships reported)

1086 Board #265 2:00 PM - 3:30 PM
Exercise Is Medicine In Traditional Chinese Medicine
Mian Jia, Chinese, Zhengzhen Wang, FACSM, Bowen Li, Chinese. BEIJING SPORT UNIVERSITY, BEIJING CITI, China. (Sponsor: Wenxue Zhu, FACSM)
Email: cath0501084@163.com
(No relationships reported)

1087 Board #266 2:00 PM - 3:30 PM
Validation Of A Multi-staged Step Test For Measuring Fitness As A Clinical Vital Sign
Tyler Gossett, Terry Shepherd, Robert Powell, Saurabh Mehta. Marshall University, Huntington, WV.
Email: gossett6@marshall.edu
(No relationships reported)

1088 Board #267 2:00 PM - 3:30 PM
Exercise Vital Sign Correlates With New Diagnosis of Depression
Robert E. Sallis, FACSM. Kaiser Permanente Medical Center, Fontana, CA.
Email: robert.e.sallis@kp.org
(No relationships reported)

1089 Board #268 2:00 PM - 3:30 PM
Exercise Vital Sign and Health Care Utilization
Alex Mroszczyk-McDonald. Kaiser Permanente Southern California, Fontana, CA. (Sponsor: Robert Sallis, FACSM)
Email: alex.mroszczyk-mcdonald@kp.org
(No relationships reported)

1090 Board #269 2:00 PM - 3:30 PM
Correlates Among Physical Activity, Physical Function, and Cognitive Function in Older Adults
Victoria E. Warren, Megan C. Rigot, Kelsey D. Loss, Colleen A. Osburn, Kyle L. Timmerman. Miami University, Oxford, OH.
(Sponsor: Helaine Alessio, FACSM)
Email: warrenv@miamioh.edu
(No relationships reported)

1091 Board #270 2:00 PM - 3:30 PM
Psychological Factors Of Burnout In Former/retired Elite-level Race Walkers In The United States
Joseph H. Rayner, IV, Juan Gonzalez, Lawrence Earl T. Pabalinas, Monica P. Santos, Nelson Gallos, Eduardo Arambula. University of Texas Rio Grande Valley, Edinburg, TX. (Sponsor: Alexis Ortiz, FACSM)
Email: jhrayner18@gmail.com
(No relationships reported)

1092 Board #271 2:00 PM - 3:30 PM
The Effects of Caffeine on Selective Attention after Exercise in Older Adults: A Pilot Study
Emily J. Ryan1, Ellen L. Glickman, FACSM2, Edward J. Ryan3.
1West Virginia University, Morgantown, WV. 2Kent State University, Kent, OH. 3Chatham University, Pittsburgh, PA.
Email: eflickes@hsc.wvu.edu
(No relationships reported)
Board #280
2:00 PM - 3:30 PM
Acute Stretching Improves Affective States And Cognitive Function In Physically Inactive People.
Mizuki SUDO, 19200011, Soichi ANDO2, Yuki TOMIGA3, Toshiya NAGAMATSU1, 1Physical Fitness Research Institute Meiji Yasuda life foundation of health and welfare, Tokyo, Japan. 2University of Electro-Communications, Tokyo, Japan. 3Fukuoka University, Fukuoka, Japan. (Sponsor: Dr. David C. Poole, FACSM)
Email: mizuki9@hotmail.com
(No relationships reported)

Board #281
2:00 PM - 3:30 PM
Vitamin D Status: Associations with Chronic Disease Risk Factors and Cognitive Function
David A. Ross, Steven L. Ferguson, Allen Knehrans, Mark A. Anderson, Randa Shehab, Debra A. Bemben, FACSM, Michael G. Bemben, FACSM. University of Oklahoma, Norman, OK. (Sponsor: Dr. Michael G. Bemben, FACSM)
(No relationships reported)

Board #282
2:00 PM - 3:30 PM
The Influence of Hydration on Childhood Cognitive Control
Daniel R. Westfall1, Sasha Barnett2, Alicia R. Covello2, Jeanne H. Bottin1, Erica T. Perrier1, Naiman A. Khan2, Charles H. Hillman3, 1Northeastern University, Boston, MA. 2Washington State University, Pullman, WA. 3University of Illinois, Urbana, IL. 4Danoone Research, Palaiseau, France.
Email: westfall.d@husky.neu.edu
(No relationships reported)

Board #283
2:00 PM - 3:30 PM
Viewing Television While Walking: Effects on Preference For Exercise, Treadmill Endurance Time and Behavioral Outcomes
Brittany S. Overstreet1, David R. Bassett, FACSM2, Scott E. Crouter, FACSM3, Cary M. Springer4, Debora Baldwin5, Shelley stoolsacker6, 1Texas A&M College of Medicine, College Station, TX. 2University of Arkansas, Fayetteville, AR. 3University of Tennessee, Knoxville, TN. 4University of Missouri, Columbia, MO. 5University of Florida, Gainesville, FL. 6Pittsburgh Medical Center, Pittsburgh, PA.
Email: delaneyday94@yahoo.com
(No relationships reported)

Board #284
2:00 PM - 3:30 PM
Complexities of the Body Weight Screening Experience: A Qualitative Analysis
Jordan D. Day1, Alyssa Abreu1, Eric Jones2, Mark Faries3. 1University of Delaware, Newark, DE. 2University of Tennessee, Knoxville, TN. 3University of Texas, Austin, TX.
Email: delaneyday94@yahoo.com
(No relationships reported)

Board #285
2:00 PM - 3:30 PM
Acute Effects of Exercise on Attentional Bias in Low and High Anxious Young Adult Females
Stephanie L. Cooper1, Phillip D. Tomporowski, FACSM1, 1Pepperdine University, Malibu, CA. 2University of Georgia, Athens, GA.
(No relationships reported)

Board #286
2:00 PM - 3:30 PM
Exercise Intensity and Creativity
Heather Hayes Betz, Amy E. Bell, Mareika Wieth. Albion College, Albion, MI. (Sponsor: Jonathan Myers, FACSM)
Email: hlbet@albion.edu
(No relationships reported)

Board #287
2:00 PM - 3:30 PM
Using Elisa to Enhance The Biochemistry Laboratory Experience For Exercise Science Students
Gregory A. Brown, FACSM1, Janet E. Steele1, Ina Shaw2, Brandon S. Shaw2. 1The University of Nebraska Kearney, Kearney, NE. 2University of Johannesburg, Johannesburg, South Africa.
Email: browng@unk.edu
(No relationships reported)
B-75 Free Communication/Poster - Instrumentation and Assessment Tools

American College of Sports Medicine
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WEDNESDAY, MAY 31, 2017

Board #295 2:00 PM - 3:30 PM
Modifying Anterior Cruciate Ligament Injury Risk Factors in Female Athletes Through Real-Time Biofeedback
Michael A. Riley¹, Scott Bonnette², Christopher DiCesare³, Adam Kiefer³, Kevin Shockley¹, Michael Richardson¹, Gregory Myer, FACSM. ¹University of Cincinnati, Cincinnati, OH. ²Cincinnati Children’s Hospital Medical Center, Cincinnati, OH. ³University of Arkansas, Fayetteville, AR.
Email: michael.riley@uc.edu
(No relationships reported)

Board #296 2:00 PM - 3:30 PM
Acute High-intensity Interval Training And Moderate-intensity Continuous Exercises Differentially Facilitate Cognitive Control
Shih-Chun Kao¹, Daniel Westfall², Brendon Gurtd, Charles Hillman³. ¹University of Illinois at Urbana-Champaign, Urbana, IL. ²Northeastern University, Boston, MA. ³Queen’s University, Kingston, ON, Canada.
Email: shihchunkao@gmail.com
(No relationships reported)

Board #297 2:00 PM - 3:30 PM
Morgan Anderson, Samantha Mohler, Melissa Anderson, R.J. Elbin. University of Arkansas, Fayetteville, AR.
Email: mmanders@uark.edu
(No relationships reported)

Board #298 2:00 PM - 3:30 PM
Reliability And Validity Of The Japanese Version Of The Activities-specific Balance Confidence Scale After Stroke
Satomi Ishige¹, Sawako Wakui². ¹Juntendo University Graduate School, Chiba, Japan. ²Juntendo University, Chiba, Japan.
Email: satomi.i_f@yahoo.co.jp
(No relationships reported)

Board #299 2:00 PM - 3:30 PM
Jugular Compression Ameliorates Alteration in fMRI of Working Memory in High School Female Soccer Athletes
WeiHong Yuan¹, Kim Barber Foss², Tom Maloney³, Staci Thomas³, Brooke Gadd³, Jonathan D. Ellis², Janet Adams¹, Christopher DiCesare¹, Jonathan Dudley¹, Katie Kitchen¹, James Leach¹, David Smith¹, Mekibib Altaye¹, Kelsey Logan¹, Ryan Galloway¹, Julian Bailes¹, Gregory D. Myer, FACSM. ¹University of Cincinnati, Cincinnati, OH. ²University of Cincinnati College of Medicine, Cincinnati, OH. ³Northshore University Health System, Evanston, IL.
Email: weihong.yuan@uchc.edu
(No relationships reported)

Board #300 3:30 PM - 5:00 PM
Comparing Motion Capture Systems For Clinical Appropriateness In Lower Extremity Frontal Plane Measurements
Megan Philipp, Kenneth Jenkins, Connor Norman, Harrison Hall, Lauren Beres, Pat Sells, Kevin Robinson. Belmont University, Nashville, TN.
(No relationships reported)

Board #301 3:30 PM - 5:00 PM
Relative Strengths and Efficacy of Commonly Used Clinical Motion Capture Systems for Lower Extremity Movements
Kenneth Jenkins, Megan Philipp, Lauren Beres, Connor Norman, Harrison Hall, Patrick Sells, Kevin Robinson. Belmont University School of Physical Therapy, Nashville, TN.
(No relationships reported)

Board #302 3:30 PM - 5:00 PM
Mobile, Low Profile, and Inexpensive Knee Joint Angle Sensor
Adin Martineau, James Tracy, Gavin Collins, Parker Rosquist, Dustin A. Bruening, Matthew K. Seeley, David T. Fullwood, Anton E. Bowden. Brigham Young University, provo, UT.
Email: adin.martineau@gmail.com
(No relationships reported)

Board #303 3:30 PM - 5:00 PM
Reliability Of A Smartphone Application Designed For Postural Control Assessment On Chronic Ankle Instability Subjects
Yalan Chiu. National Yang-Ming University, Taipei, Taiwan.
(No relationships reported)

Board #304 3:30 PM - 5:00 PM
Leg Power During Simulated Sit-to-Stand Fatigue: Smartphone Measures of Movement Speed
Brian L. Tracy, FACSM, Amber R. Wright, Jungsoo Kang, Matthew J. Carnal. Colorado State University, Fort Collins, CO.
Email: brian.tracy@colostate.edu
(No relationships reported)

Board #305 3:30 PM - 5:00 PM
Validation Of Smartphone-based Assessment Of Sit-to-stand Power
Matthew J. Carnal, William F. Beideman, Diego I. Andrac, Pavandeep Singh, Brian L. Tracy, FACSM. Colorado State University, Fort Collins, CO. (Sponsor: Brian L. Tracy, FACSM)
Email: mcarnal@colostate.edu
(No relationships reported)

Board #306 3:30 PM - 5:00 PM
Development of Smartphone-Based Balance Assessment System for Subjects with Chronic Stroke
You-Ruei Hou¹, Ya-Lan Chio¹, Shang-Lin Chiang², Yi-Ju Tsai¹, Wen-Hsiu Sung³. ¹National Yang-Ming University, Taipei, Taiwan. ²Tri-Service Hospital, Taipei, Taiwan. ³National Cheng Kung University, Tainan, Taiwan.
Email: yhou.pt@gmail.com
(No relationships reported)

Board #307 3:30 PM - 5:00 PM
Reliability of Foot Morphology Measurements From a Three-Dimensional Scanner
Samantha J. Gajoch, Jeffrey B. Taylor, Devyn A. Fleischhacker, Justin P. Waxman, Anh Dung Nguyen, Kevin R. Ford, FACSM. High Point University, High Point, NC. (Sponsor: Dr. Kevin Ford, FACSM)
Email: mgajoch14@highpoint.edu
(No relationships reported)

Board #308 3:30 PM - 5:00 PM
Reliability And Validity Of Hip Proprioceptive Scores In Older People: Testing In Weight-bearing Stance With The Hip Sway Ameda
Jia Han¹, Nan Yang¹, Roger Adams², Judith Anson², Gordon Waddington³, 'Shanghai University of Sport, Shanghai, China. ²University of Canberra, Canberra, Australia.
Email: dr_hanjia@yeah.net
(No relationships reported)

Board #309 3:30 PM - 5:00 PM
Pilot Study For The Reliability Of The 10-second Foot Tapping Test (FTT)
(No relationships reported)

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1131  Board #310  3:30 PM - 5:00 PM  Assessing the Reliability and Validity of an Objective Method of Measuring Postural Stability: Preliminary Data
Samantha E. Scarnecia, Julie P. Burland, Alex M. Wafer, Gabrielle EW Giersch, Ryan M. Curtis, Lindsay J. DiStefano, Douglas J. Casa, FACSM. University of Connecticut, Storrs, CT.
Reported Relationships: S.E. Scarnecia: Contracted Research - Including Principle Investigator; BrainScope Company, Inc.

1132  Board #311  3:30 PM - 5:00 PM  Test-Retest Reliability of Multiple Postural Control Assessment Measures
Megan E. Mormile1, Brian J. Szechely1, Katelyn E. Grimes1, Brian J. Mizeski2, Barry A. Munkasy1, Douglas W. Powell1, Nicholas G. Murray1. 1Georgia Southern University, Statesboro, GA. 2University of Memphis, Memphis, TN.
Email: mrm11789@georgiasouthern.edu
(No relationships reported)

1133  Board #312  3:30 PM - 5:00 PM  The Reliability of Foot Torsional Stiffness Measurements in Asymptomatic Recreational Runners
Juan C. Garbalosa, Eva Milone1. 1University of Miami, Coral Gables, FL.
Email: lhboikoferreira@gmail.com
(No relationships reported)

1134  Board #313  3:30 PM - 5:00 PM  The Development of a Seated Clinical Trunk Test to Assess Lower Extremity Injury Risk
Hayley Reed, Amanda Hickey, Chelsey Roe, Kathryn Lucas, Brian Noehren, FACSM. University of Kentucky, Lexington, KY.
(No relationships reported)

1135  Board #314  3:30 PM - 5:00 PM  Comparison of Stability Scores on Adult Participants Using Commercial Balance Methods
Andrew Shim, Michael Waller, Brady Harr, Blake Van Maanen. Briar Cliff University, Sioux City, IA.
Email: andrew.shim@briarcliff.edu
(No relationships reported)

1136  Board #315  3:30 PM - 5:00 PM  Balance Assessment using Microsoft Xbox Kinect
Motaz Eltoukhy1, Christopher Kuenze2, Jeonghoon Oh1, Joseph Signorile1. 1University of Miami, Coral Gables, FL. 2Michigan State University, East Lansing, MI. (Sponsor: Arlette Perry, FACSM)
(No relationships reported)

1137  Board #316  3:30 PM - 5:00 PM  Validation of the Kinect-based Star Excursion Balance Test
Jeonghoon Oh1, Motaz Eltoukhy2, Savannah Wooten1, Christopher Kuenze2, Joseph Signorile1. 1University of miami, MIAMI, FL. 2Michigan State University, East Lansing, FL. (Sponsor: Arlette Perry, FACSM)
Email: jo1030@miami.edu
(No relationships reported)

1138  Board #317  3:30 PM - 5:00 PM  Inter-day Consistency Of The Regional Analysis Of Discomfort Survey
Devyn A. Fleischhacker, Kevin R. Ford, FACSM, Justin P. Waxman, Anh-Dung Nguyen, Samantha J. Gajoch, Jeffrey B. Taylor. High Point University, High Point, NC. (Sponsor: Dr. Kevin R. Ford, FACSM)
Email: taylor@highpoint.edu
(No relationships reported)

ACSM 64th Annual Meeting

1139  Board #318  3:30 PM - 5:00 PM  Validation of Single Sensor Wireless In-shoe Force Insoles during Running
Kristen Renner1, Bhushan Thakkar1, DS Blaise Williams, FACSM1, Robin M. Queen, FACSM1. 1Virginia Tech, Blacksburg, VA. 2Virginia Commonwealth University, Richmond, VA. (Sponsor: Robin Queen, FACSM)
Email: hilbertk@vt.edu
(No relationships reported)

B-76  Free Communication/Poster - Medical Issues

1140  Board #319  3:30 PM - 5:00 PM  Disturbed Shear Rate Patterns And Endothelial Dysfunction In Young Men On Anabolic Androgenic Steroid Abuse
Francis Souza, Allan Sales, Rafael Pereiro, Ana Luiza Sayegh, Marcelo Santos, Mauricio Yonamine, Carlos Negrão, Maria Janieire Alves. Heart Institute, Sao Paulo, Brazil.
(No relationships reported)

1141  Board #320  3:30 PM - 5:00 PM  Long Comapred To Short Haul Travel Effects On Wheelchair Basketball Player’S Preparation For The World Championships
Peter M. Fowler1, Jo Müller2, Charli Sargent3, Michele Lastella1, Heidi Thornton1, Lee Taylor1. 1Aspetar Orthopaedic and Sports Medicine Hospital, Doha, Qatar. 2Australian Institute of Sport, Canberra, Australia. 3Central Queensland University, Adelaide, Australia. 4La Trobe University, Melbourne, Australia.
Email: peter.fowler@aspetar.com
(No relationships reported)

1142  Board #321  3:30 PM - 5:00 PM  Exercise-Induced Asthma Knowledge among Coaches of the Special Olympics National Team
Email: Matthew.Russell@uoit.net
(No relationships reported)

1143  Board #322  3:30 PM - 5:00 PM  The Effect Of Resistance Training On Strength, Balance, And Coordination In Elderly Women
Luis H. Boiko Ferreira1, André C. Smolarek, 845000002, João Carlos Alves. University of São Paulo, Brazil. 1Quinnipiac University, Connecticut, USA. 2Appalachian State University, Boone, NC.
Email: lhboikoferreira@gmail.com
(No relationships reported)

1144  Board #323  3:30 PM - 5:00 PM  Maximizing Respiratory Health In Elite Swimmers - A Systematic Approach To Optimize Total Airway Health
James H. Hull1, Anna R. Jackson2, James G. Hopker3. 1Hartford Hospital, Hartford, CT. 2British Swimming, Loughborough, United Kingdom. 3British Swimming, Loughborough, United Kingdom.
(No relationships reported)

1145  Board #324  3:30 PM - 5:00 PM  Venous Thromboemboli Associated with Acute Aerobic Exercise: A Review of Case-Report Commonalities
Paul M. Parducci1, Amanda L. Zaleski1, Gregory A. Panza1, Linda S. Pescatello, FACSM1, Paul D. Thompson, FACSM1, Beth A. Taylor1. 1University of Connecticut, Storrs, CT. 2Hartford Hospital, Hartford, CT. (Sponsor: Linda Pescatello, FACSM)
Email: paul.parducci@uconn.edu
(No relationships reported)
B-77 Free Communication/Poster - Nutrition and Health
Wednesday, May 31, 2017, 1:00 PM - 6:00 PM
Room: Hall F

1148 Board #327 2:00 PM - 3:30 PM
Assessing Urine Concentration in Children by Combining Urine Color and Void Number
Lisa T. Jansen1, Giannis Amaoutis2, Dimitris Bougatsas2, J.D. Adams1, Jeanne H. Bottin2, Erica T. Perrier2, Andy Maurouxnouskis2, Stavros A. Kavouras, FACSM1. 1University of Arkansas, Fayetteville, AR. 2Harokopio University, Athens, Greece. 3Danone Research, Palaiseau, France. (Sponsor: Stavros A. Kavouras, FACSM) Email: hjanssen@uark.edu

1149 Board #328 2:00 PM - 3:30 PM
A First Morning Spot Sample Overestimates 24-Hour Urine Osmolality in Children and Adults
Adam D. Seal1, Dimitris Bougatsas2, Giannis Amaoutis2, Jeanne H. Bottin2, Erica T. Perrier2, Andy Mauroouxnouskis2, Stavros A. Kavouras, FACSM1. 1University of Arkansas, Fayetteville, AR. 2Harokopio University, Athens, Greece. 3Danone Research, Palaiseau, France. (Sponsor: Stavros A. Kavouras, FACSM) Email: hjanssen@uark.edu
Reported Relationships: A.D. Seal: Consulting Fee; Quest Diagnostics. Contracted Research - Including Principle Investigator; Danone Research.

1150 Board #329 2:00 PM - 3:30 PM
Effects of Vitamin D Supplementation on Lean Mass, Muscular Strength, and Cardiorespiratory Fitness: A Double-Blind Randomized Controlled Trial
Zhen-Bo Cao1, Xiaomin Sun2, Kumpi Tanisawa3, Satonii Oshima3, Mitsuhi Higuchi, FACSM1. 1Shanghai University of Sport, Shanghai, China. 2Xian Jiaotong University, Xian, China. 3Waseda University, Tokyo, Japan. (Sponsor: Mitsuhi Higuchi, FACSM) Email: caozb_edu@yahoo.co.jp
(No relationships reported)

1151 Board #330 2:00 PM - 3:30 PM
The Prevalence Of Vitamin D Deficiency In Elite Winter Sport Athletes
Margaret Harris1, David Le2, Susie Parker Simmons2, Nanna Meyer, FACSM1. 1University of Colorado Colorado Springs, Colorado Springs, CO. 2United States Olympic Committee, Colorado Springs, CO. Email: mharris5@uccs.edu
(No relationships reported)

1152 Board #331 2:00 PM - 3:30 PM
Can Increased Sodium Intake Reduce Exercise-associated Hyponatremia?
Nancy J. Rehner, FACSM1, Luuk Wijering1, James D. Cotter1. 1University of Otago, Dunedin, New Zealand. 2Radboud University, Nijmegen, Netherlands. Email: nancy.rehner@otago.ac.nz
(No relationships reported)

1153 Board #332 2:00 PM - 3:30 PM
Iron Supplementation During 3 Consecutive Days Of Endurance Training Augmented Hepcidin Concentration
Aya Ishihashi1, Naho Maeda1, Akiko Kamei1, Kazushige Goto1. 1Ritsumeikan University, Shiga, Japan. 2Japan Institute of Sports Sciences, Tokyo, Japan. Email: gr0167kx@ed.ritsumei.ac.jp
(No relationships reported)

1154 Board #333 2:00 PM - 3:30 PM
Lower Choline Intake is Associated with Diminished Strength and Lean Mass Gains in Older Adults
Chang Wook Lee1, Eliego Galvani2, Teak V. Lee3, Vincent CW Che1, Steve Bui2, Stephen F. Crouse, FACSM3, James D. Fluckey4, Stephen B. Smith1, Stephen E. Riechman, FACSM1. 1University of Houston-Victoria, Victoria, TX. 2University of Texas Medical Branch, Galveston, TX. 3Pierce College, Woodland Hills, CA. 4Texas A&M University, College Station, TX. 5Dixie State University, St. George, UT. Email: jmbores@utmb.edu
(No relationships reported)

1155 Board #334 2:00 PM - 3:30 PM
Dietary Guidelines For Americans: Comparing Menus To What Is Served And Consumed In Preschool Children
Stacie M. Kirk, Erik P. Kirk, FACSM. Southern Illinois University Edwardsville, Edwardsville, IL. Email: skirk@siue.edu
(No relationships reported)

1156 Board #335 2:00 PM - 3:30 PM
Characterization of Nutritional Intake and Distribution in Pediatric Burn Patients
Julianna M. Bores, Victoria G. Rontoyanni, Ileana Gutierrez, David N. Herron, Craig Porter, Oscar E. Suman, FACSM. UTMB/ Shriners Hospitals for Children-Galveston, Galveston, TX. (Sponsor: Oscar E. Suman, FACSM) Email: jmbbores@utmb.edu
(No relationships reported)

1157 Board #336 2:00 PM - 3:30 PM
Consumption Of Sugar-sweetened Beverages By Sex And Weight Status In Children From The Mexico-US Border
Luis M. Gómez- Miranda1, Ricardo A. Briones- Villalba1, Melissa Ortiz-Orriz1, Roberto Espinoza-Gutiérrez1, Iván Rentería1, 2Universidad Autónoma de Baja California, Tijuana, Mexico. 2Universidad Autónoma de Baja California, Ensenada, Mexico. Email: luismarianaabc@gmail.com
(No relationships reported)

1158 Board #337 2:00 PM - 3:30 PM
Weight Loss Knowledge Among Current And Future Health Professionals In Exercise Science And Nutrition
Lauren Pringle, Laurie Milliken, FACSM. UMASS BOSTON, Boston, MA. (Sponsor: Dr. Laurie Milliken, FACSM) Email: lpringle06@yahoo.com
(No relationships reported)

1159 Board #338 2:00 PM - 3:30 PM
The Acute Effects of Nutrition Labels on Beverage Consumption in a College Cafeteria
Taylor H. Bramwell, Joel D. Reece. Brigham Young University Hawaii, Laie, HI. Email: bramtay@gmail.com
(No relationships reported)
1165 Board #344 2:00 PM - 3:30 PM
An 8-month Small-group Circuit Functional Training Program Improves Body Composition And Performance Of Overweight/obese Women.

Alexios Batrakoulis1, Kalliopi Georgakolou1, Konstantinos Papanikolau1, Nikolaos Zourbanos1, Dimitrios Draganidis1, Chara Deli1, Maria Michalopoulou2, Alexandra Avloniti2, Athanasios Chatzinikolaou1, Athanasia Pamoulas2, Ioannis Fatouros2.

1University of Thessaly, Trikala, Greece. 2Democritus University of Thrace, Komotini, Greece. (Sponsor: Theodore J. Angelopoulos, FACSM)

Email: alexis_batrakoulis_75@hotmail.com

(No relationships reported)

1167 Board #346 2:00 PM - 3:30 PM
Hemodynamic Response to Acute and Chronic Exercise in Obese and Lean Prehypertensive Men.

Zachary Zeigler1, Pamela Swan, FACSM2, Siddhartha Angadi2, Farouk Mookadam2, Matthew Buman, FACSM2, Glenn Gaesser, FACSM2, Grand Canyon University, Phoenix, AZ, Arizona State University, Phoenix, AZ.

Email: zachary.zeigler@ceu.edu

(No relationships reported)

1168 Board #347 2:00 PM - 3:30 PM
Dyspnea on Exertion in Nonobese and Obese Patients.


1Texas A&M University Commerce, Commerce, TX. 2Texas Health Presbyterian Hospital Dallas and University of Texas Southwestern Medical Center, Dallas, TX. (Sponsor: Tony G Babb, FACSM)

Email: vipa.bernhardt@tamu.edu

(No relationships reported)

1170 Board #349 2:00 PM - 3:30 PM
Irrsin Is Associated With Insulin Sensitivity Improvement Following An Exercise Training In Obese Youth.

Martin Sénéchal1, Brittany V. Rioux2, Pelech Cody2, Dustin Kimberley2, Teri L. Moffatt2, Todd H. Duhamel2, Vernon W. Dolinsky3, Johnathan M. McGaveck1.

1University of New Brunswick, Fredericton, NB, Canada. 2University of Manitoba, Winnipeg, MB, Canada. 3University of Southern California, Los Angeles, CA.

Email: msenecha@unb.ca

(No relationships reported)

1171 Board #350 2:00 PM - 3:30 PM
Effects of Different Exercises Training associated with Phototherapy on Cardiometabolic Risk in Obese Women.

Raquel Munhoz da Silveira Campos1, Ana R. Dâmaso2, Deborah Cristina Landi Masques1, Marcela Sene-Fiorese1, Fernanda Oliveira Duarte1, Antonio Eduardo Aquino Junior1, Lian Tock1, Vanderlei Salvador Bagnato1, Nivaldo Antonio Parizotto3.

1University of São Paulo (UNIFESP), São Paulo, Brazil. 2University of São Paulo (USP), São Carlos, Brazil. 3University of São Paulo (USP), São Carlos, Brazil.

Email: raquelmunhoz@hotmail.com

(No relationships reported)

1172 Board #351 2:00 PM - 3:30 PM
Obesity Moderates the Effects of Motivational Interviewing Treatment Outcomes in Fibromyalgia.

Anthony S. Kaleth, FACSM1, James E. Slaven2, Dennis C. Ang3.

1Indiana University-Purdue University Indianapolis, Indianapolis, Indiana. 2Indiana University, Indianapolis, IN. 3Wake Forest University, Winston-Salem, NC.

(No relationships reported)
Board #352 2:00 PM - 3:30 PM
High Intensity Interval Training Changes Skeletal Muscle Insulin Signalling Pathway Of Obese Individuals
FLAVIO C. MAGALHAES1, DENIA V. VIEIRA1, MARIANA A. MATOS1, KAO C. PINHAL1, KURT ESCOBAR2, MARCO FABRICIO DIAS-PEIXOTO3, ETEL ROCHA-VIEIRA1, FABIANO T. AMORIM2. 1Federal University of the Jequitinhonha and Mucuri Valleys, Diamantina, Brazil. 2University of New Mexico, Albuquerque, NM. Email: magalhaesufmg@gmail.com (No relationships reported)

Board #353 2:00 PM - 3:30 PM
Effects of Underwater Treadmill Training on Health-Related Fitness and Daily Caloric Expenditure in Adults with Type 2 Diabetes
Ryan T. Conners1, John M. Coons2, Dana K. Fuller2, Don W. Morgan, FACSM2, Jennifer L. Caputo2. 1University of Alabama in Huntsville, Huntsville, AL. 2Middle Tennessee State University, Murfreesboro, TN. (Sponsor: Dr. Don W. Morgan, FACSM) Email: Ryan.Conners@uah.edu (No relationships reported)

Board #354 2:00 PM - 3:30 PM
Insulin Therapy is Associated With Increased Sedentary Behaviour and Weight Gain in T2DM Patients
Yvonne A.W. Hartman1, Henry J. Janssen1, Cees J. Taek1, Maria T.E. Hopman, FACSM1, Dick H.J. Thijsse1, Radboud University Medical Center, Nijmegen, Netherlands. 2Liverpool John Moores University, Liverpool, United Kingdom. Email: yvonne.hartman@radboudumc.nl (No relationships reported)

Board #355 2:00 PM - 3:30 PM
Validation Of A System-specific Dual-energy X-ray Absorptiometry-derived Body Volume Equation For 4-compartment Body Composition Calculations
Katie R. Hirsch, Meredith G. Mock, Eric T. Trexler, Malia N.M. Blue, Abbie E. Smith-Ryan, FACSM. University of North Carolina at Chapel Hill, Chapel Hill, NC. (Sponsor: Abbie E. Smith-Ryan, FACSM) Email: ktrose23@live.unc.edu (No relationships reported)

B-79 Student Colloquium - Student Colloquium: Finding, Applying, and Hiring: How to Transition to an Employee in Academia and Industry
Wednesday, May 31, 2017, 5:30 PM - 6:30 PM
Room: Hotel-Capitol Ballroom 5

This session is designed to show students the application and hiring process so that they understand what their job search will entail. Experts will present about proper materials (CV, cover letter), what a search committee looks like, industry HR, and salary negotiation.

John Harvey Kindred. Colorado State University, Fort Collins, CO. (No relationships reported)

Barry Braun, FACSM. Colorado State University, Fort Collins, CO. (No relationships reported)

Monika Fleshner. University of Colorado - Boulder, Boulder, CO. (No relationships reported)

Jennifer Sacheck, FACSM. Tufts University, Boston, MA. (No relationships reported)

Lanay Mudd, FACSM. National Institutes of Health, North Bethesda, MD. (No relationships reported)
Human behavior involves a wide range of states including sleep, sedentary time, and moderate to vigorous intensity physical activity—all of which occur during the 24-hour cycle. Evidence is limited however on the optimal balance people should achieve across each of these behaviors to achieve optimal health. New monitoring tools that routinely measure human behavior over 24 hours for days at a time provide opportunities to better examine health effects and the inter-relationships between them; for example, the relation between sleep and physical activity. This symposium will provide attendees with the most recent evidence on sleep, sedentary behavior and physical activity and health in the context of the 24-hour cycle to include: Overview of sleep and health research, Measurement of the 24-hour cycle, Sedentary and physically active time, Strategies to improve sleep, sedentary time, and physical activity behaviors, and Future research directions.

C-01 Highlighted Symposium - Wake up! Optimizing Physical Activity, Sedentary Behavior, and Sleep for Better Health

Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: Bellco Theatre 1

A mounting body of evidence indicates that exercise training and a high age-relative fitness level are the most promising preventive ‘AD medicines’. Additionally, recent studies show that blood borne factors of young blood may have rejuvenating-like effects on the brain. Here we use present a translational and multidisciplinary approach encompassing epidemiological-, experimental and clinical studies to answer the question of whether physical activity, fitness and blood borne factors induced by exercise hold the key to preventing and treating AD and neurodegeneration.

1187 8:00 AM - 8:05 AM
Chair: Linda Ernstsen. Norwegian University of Science and Technology, Trondheim, Norway. (No relationships reported)

1188 8:05 AM - 8:30 AM
High Intensity Training in Old Age to Improve Memory and Hippocampal Function
Emrah Duzel. Otto-von Guitricke University Magdeburg, Magdeburg, Germany. (No relationships reported)

1189 8:30 AM - 8:55 AM
FND5/Irisin - Their Role in the Nervous System and as a Mediator for Beneficial Effects of Exercise on the Brain
Christianne Wann. Massachusetts General Hospital and Harvard Medical School, Boston, MA. (No relationships reported)

1190 8:55 AM - 9:20 AM
Exercise-induced Lactate is the Key to Fix the Brain!
Linda H. Bergersen. University of Oslo, Oslo, Norway. (No relationships reported)

1191 9:20 AM - 9:45 AM
Can Athletic Blood Cure AD In-vitro?
Nathan Scrimgeour. Norwegian University of Science and Technology, Trondheim, Norway. (No relationships reported)

1194 8:30 AM - 8:55 AM
Exercise in Brain Disorders
Karim Alkadhi. University of Houston, Houston, TX. (No relationships reported)
American College of Sports Medicine

1195 8:55 AM - 9:20 AM
Neural Circuits Controlling Exercise-Modulation of Fear and Anxiety
Benjamin Greenwood, University of Colorado-Denver, Denver, CO.
(No relationships reported)

1196 9:20 AM - 9:45 AM
Brain Responses and Adaptations Underlying Sport Performance
Bradley D. Hatfield, FACSM. University of Maryland, College Park, MD.
(No relationships reported)

Overall Discussion

C-04 Symposium - Exercise is Medicine: Current Insights from C.M. Tipton’s Scientific Grandchildren

Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 110

Each of the four speakers will synthesize current research findings in different aspects of Exercise is Medicine. Speakers are accomplished, well-recognized investigators, who happen to be among the scientific off-spring of C.M. Tipton’s PhD trainees. This sets the stage to celebrate Dr. Tipton’s impact on the field of exercise physiology.

1197 8:00 AM - 8:05 AM
Co-Chair: Kenneth M. Baldwin, FACSM. University of California, Irvine, Irvine, CA.
(No relationships reported)

1198 8:00 AM - 8:05 AM
Co-Chair: Ronald Terjung, FACSM. University of Missouri, Columbia, MO.
(No relationships reported)

1199 8:05 AM - 8:30 AM
Exercise, Muscle Health, and Mitochondria
David A. Hood, FACSM. York University, Toronto, ON, Canada.
(No relationships reported)

1200 8:30 AM - 8:55 AM
Exercise Maintains Health in Space Flight
Vince Caiozzo, FACSM. University of California, Irvine, Irvine, CA.
(No relationships reported)

1201 8:55 AM - 9:20 AM
Exercise is Essential for Optimal Cardiovascular Health
James W.E. Rush, University of Waterloo, Waterloo, Ontario, Canada.
(No relationships reported)

1202 9:20 AM - 9:45 AM
Effects of Exercise on Chronic Disease
Christian Roberts, FACSM. Occidental College, Los Angeles, CA.
(No relationships reported)

Overall Discussion

C-05 Symposium - Exercise and the Pulmonary Circulation: Can the Lung Deal with all that we Ask of it?

Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: Bellco Theatre 3

1203 8:00 AM - 8:10 AM
Chair: Susan R. Hopkins. University of California-San Diego, San Diego, CA.
(No relationships reported)

1204 8:10 AM - 8:40 AM
Pulmonary Blood Flow, Ventilation-perfusion Matching, and Gas Exchange during Exercise: A little is good, a lot Not so Much
Susan R. Hopkins. University of California-San Diego, La Jolla, CA.
Reported Relationships: S.R. Hopkins: Consulting Fee; Boehringer Ingelheim. Honoraria; Bayer.

1205 8:40 AM - 9:10 AM
Lung Diffusing Capacity and Exercise, Fitting all that Oxygen in the Blood
(No relationships reported)

1206 9:10 AM - 9:40 AM
The Heart and Lungs during Heavy Exercise: A Delicate Balance
André La Gerche. Baker Heart & Diabetes Institute, Melbourne, Australia.
(No relationships reported)

Overall Discussion

C-06 Symposium - It’s Simple, Right? Conducting Exercise Clinical Trials in Co-Morbid Older Adults

Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 607

This session is a collaborative presentation from the aging working group within the National Exercise Clinical Trials Network (NExTNet) which was encouraged by Jim Whitehead and the ACSM Strategic Health Initiative on Aging. The session will provide insight into issues surrounding the conduct of exercise clinical trials in clinically-representative populations of older adults and to highlight ongoing and potential future trials in this area. The session will discuss the diversity of potential intervention approaches targeting older adults based upon their heterogeneous health/medical profiles. Discussion will also compare/contrast these findings and pose potential strategies for conducting future research in this area.

1207 8:00 AM - 8:05 AM
Chair: Thomas W. Buford, FACSM. University of Florida, Gainesville, FL.
(No relationships reported)

1208 8:05 AM - 8:30 AM
Exercise in People with Parkinson’s Disease
Daniel Corcos. Northwestern University, Chicago, IL.
(No relationships reported)

1209 8:30 AM - 8:55 AM
Mobility and Physical Activity Assessment and Enhancement in Comorbid Older Adults
Neil Alexander. University of Michigan/Ann Arbor VA, Ann Arbor, MI.
(No relationships reported)

1210 8:55 AM - 9:20 AM
One Size Doesn’t Fit All: Optimizing Exercise for Late-Life Disability Prevention
Thomas Buford, FACSM. University of Florida, Gainesville, FL.
(No relationships reported)

1211 9:20 AM - 9:45 AM
Using Molecular Signals to Guide Exercise Rehabilitation in Co-Morbid Older Adults
Marcas Bannan, FACSM. University of Alabama Birmingham, Birmingham, AL.
(No relationships reported)

Overall Discussion
C-07 Symposium - Periodic Health Examination and Performance Assessment of Elite Athletes: Optimizing Performance while Preventing Illness

Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 408

The aim of the session is to provide background information supporting the periodic health examination of elite athletes (i.e., able bodied and disabled) and the regular performance assessment. The periodic health examination is not only a health check, it's also a moment of re-evaluation of the athlete's physical performance to improve the training, tailored to the athlete's needs, and improve the performance. The session will provide the latest updates in terms of clinical and physical fitness evaluation protocols, with a keen overview on the cardiovascular adaptations of elite sport participation.

1212 8:00 AM - 8:05 AM
Chair: William Roberts, FACS. University of Minnesota Medical School, St Paul, MN.
(No relationships reported)

1213 8:05 AM - 8:30 AM
The Primary Care Physician’s Role in Elite Athlete Health Care
William O. Roberts, FACS. University of Minnesota Medical School, Minneapolis, MN.
(No relationships reported)

1214 8:30 AM - 8:55 AM
Cardiovascular Adaptations, Metabolic Characteristics and Energy Requirements of Elite Sports
Benjamin Levine, FACS. UT SouthWestern Medical Center, Dallas, TX.
(No relationships reported)

1215 8:55 AM - 9:20 AM
The Cardiovascular Setting of the Disabled Elite Athlete: Risk Stratification, Prevention and Treatment
Marco Bernardi. School of Exercise and Sports Medicine, Sapienza Università di Roma, Rome, Italy.
(No relationships reported)

1216 9:20 AM - 9:45 AM
The Periodical Health Evaluation Benefits: A Strategy for Injury and Illness Prevention
Paolo Emilio Adami. Sports Medicine and Sciences Institute, CONI, Rome, Italy.
(No relationships reported)

1217 9:45 AM - 10:00 AM
Overall Discussion

C-08 Symposium - RIO 2016: Olympic and Paralympic Sports Medicine Strategies and Lessons Learned for TOKYO 2020

Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 302

The RIO 2016 Olympic Games and Paralympic Games were exceptionally exciting in terms of athletic performance and drama. In addition, unique medical and health issues (Zika virus, water quality) were major concerns for participating athletes, particularly in the months prior to RIO 2016. This symposium offers a look back at the RIO 2016 Olympic and Paralympic Games focusing on relevant events in sports medicine and sport science. We believe that this symposium will be of great interest to ACSM members involved in the practical application of sports medicine and sport science among elite athletes, as well as those who have a general interest in the Olympics and Paralympics.

1217 8:00 AM - 8:05 AM
Chair: Scott Magnes, FACS. Fort Belvoir Community Hospital, Fort Belvoir, VA.
(No relationships reported)

1218 8:05 AM - 8:30 AM
Olympic Medical Challenges and Strategies in Preparation for RIO 2016
William Moreau, FACS. United States Olympic Committee, Colorado Springs, CO.
(No relationships reported)

1219 8:30 AM - 8:55 AM
Paralympic Medical Challenges and Strategies in Preparation for RIO 2016
Cheri Blauwet. Brigham and Women’s Hospital and Spaulding Rehabilitation Hospital, Harvard Medical School, Boston, MA.
(No relationships reported)

1220 8:55 AM - 9:20 AM
Strategic Sport Science Initiatives for RIO 2016: USA Swimming and USA Track and Field
Randall Wilber, FACS. United States Olympic Committee, Colorado Springs, CO.
(No relationships reported)

1221 9:20 AM - 9:45 AM
RIO 2016: Perspective of an Olympic Medalist and a Paralympic Medalist
(No relationships reported)

1222 9:45 AM - 10:00 AM
Overall Discussion

C-09 Symposium - Updates on Achilles Tendon and Plantar Fascia Injuries in Athletes

Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 603

Tendinopathies/Fasciopathies constitute up to 30% of presenting complaints at sports medicine offices. Achilles tendon and plantar fascia injuries are particular common in increasing numbers of endurance and master athletes and refractory cases are not uncommon. Session participants will gain insight into understandings of 1) tissue level pathophysiology, 2) biomechanics, as well as 3) emerging office-based procedures, indications, and available evidences for Achilles tendinopathy and plantar fasciopathy. Procedures discussed will include 1) sonographically guided percutaneous tenotomy/ fasciectomy and debridement, 2) mechanical and chemical tendon scraping, 3) dextrose hyperosmolar injection, 4) platelet-rich plasma injection, and 5) biocellular injection (mesenchymal stem cell & anesthetic membrane).

1222 8:00 AM - 8:10 AM
Chair: Kentaro Onishi. University of Pittsburgh Medical Center, Pittsburgh, PA.
(No relationships reported)

1223 8:10 AM - 8:35 AM
Understanding Cellular Mechanisms for Tendon Injuries
(No relationships reported)

1224 8:35 AM - 8:55 AM
Clinical Evaluation of Achilles Tendinopathy and Plantar Fasciopathy
Adami Tenforde. Spaulding National Running Center, Cambridge, MA.
(No relationships reported)

1225 8:55 AM - 9:20 AM
Sonographically-guided Achilles Tendon and Plantar Fascia Procedures
Kentaro Onishi. University of Pittsburgh Medical Center, Pittsburgh, PA.
(No relationships reported)
**American College of Sports Medicine**

**Thematic Poster - Bioenergetics and Training**

**Thursday, June 1, 2017, 8:00 AM - 10:00 AM**

Room: 403

**Chair:** Gretchen A. Casazza. UC Davis Sports Medicine, Sacramento, CA. (No relationships reported)

**Board #1**

**8:00 AM - 10:00 AM**

**Resistance Exercise Attenuates Mitochondrial Function: Effects Of NSAID Intake And Eccentric-Overload Training**

Daniele Cardinali, Mats Lilja, Mirko Mandic, Thomas Gustafsson, Filip J. Larsen, Tommy R. Lundberg. The Swedish School of Sport and Health Sciences, Stockholm, Sweden. (No relationships reported)

**Board #2**

**8:00 AM - 10:00 AM**

**Human Skeletal Muscle Oxidative Capacity Is Up-regulated After High-intensity Training In Competitive Soccer Players**

Dan Fransson, Nikolai Bastrup Nordgreen, Peter Krstrup, Magni Mohr. University of Gothenburg, Gothenburg, Sweden. University of Copenhagen, Copenhagen, Denmark. University of southern Denmark, Odense, Denmark. University of the Faroe Islands, Torshavn, Faroe Islands. (No relationships reported)

**Board #3**

**8:00 AM - 10:00 AM**

**Decreased Energy Availability During Intensified Training is Associated With Non-Functional Overreaching in Female Runners**

Karine Schaal, Marta Van Loan, FACSMM, Christophe Hausswirth, Gretchen Casazza. UC Davis, Davis, CA. Institut National du Sport, de l’Expertise et de la Performance (INSEP), Paris, France. (Sponsor: Marta Van Loan, FACSMM)

**Board #4**

**8:00 AM - 10:00 AM**

**The Effect of Aerobic and Resistance Training Exercise on Blood Pressure Response in College Aged Students**

Mark Rudich, Randy Canivel, Bradley Warren. Southern Methodist University, Dallas, TX. (No relationships reported)

**Board #5**

**8:00 AM - 10:00 AM**

**6 Weeks of Eccentric Cycling Training Improves Walking Economy in Healthy Individuals**

Albino G. Schiffino, Andrew J. Weiler, Luis F. Diaz, Chee-Hoi Leong. Central Connecticut State University, New Britain, CT. (Sponsor: Dr. Sean Walsh, FACSMM)

**Board #6**

**8:00 AM - 10:00 AM**

**Effect Of Acute Acetaminophen Ingestion On Running Endurance Performance**

Fotini Pagotto Dagli, M. Maridaki, G. Paradisi, T. Pilianidis, E. Zacharogiannis. National and Kapodistrian University of Athens, Athens, Greece. (No relationships reported)
P86  Final Program

1247  Board #5  8:00 AM - 10:00 AM
Cardiopulmonary Fitness in Prostate Cancer Patients Defines Subpopulations at Risk of Metabolic and Performance Declines
Richard A. LaFountain, Debbie Scandling, Connor M. Geraghty, Ciaran M. Fairman, Brian C. Focht, FACSM, Steven T. Devor, FACSM, Carmen B. Swain, Subha V. Raman, Orlando P. Simonetti, Steven K. Clinton. The Ohio State University, Columbus, OH.
Email: lafountain.9@osu.edu
(No relationships reported)

1248  Board #3  8:00 AM - 10:00 AM
The Assessment of Training Load During British Army Phase One Training
Email: ssa.saunders311@gmail.com
(No relationships reported)

C-12  Thematic Poster - Military Physiology
Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 304

1249  Board #4  8:00 AM - 10:00 AM
The Effect of Anthropometric Measures and Upper Body Strength on a Physically Demanding Soldiering Task
Jan E. Redmond, Stephen A. Foulis, Peter N. Frykman, Bradley J. Warr, Marilyn A. Sharp. UKARIEM, Natick, MA.
Email: jan.e.redmond.civ@mail.mil
(No relationships reported)

1250  Board #5  8:00 AM - 10:00 AM
(No relationships reported)

1251  Board #6  8:00 AM - 10:00 AM
Physical Fitness Predictors of A Warrior Task Simulation Test
Hung Chun Huang, Takashi Nagai, Timothy C. Sell, Mita Lovalekar, Christopher Connaboy, Bradley C. Nindl, FACSM. 1University of Pittsburgh, Pittsburgh, PA, 2Duke University, Durham, NC. (Sponsor: Bradley C. Nindl, FACSM)
Email: hugh8@pitt.edu
(No relationships reported)

C-13  Thematic Poster - Muscle Basic Science
Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 101

1252  Chair: Michael Roberts. Auburn University, Auburn, AL.
(No relationships reported)

1253  Board #1  8:00 AM - 10:00 AM
Size Profile and Selective Protein Packaging of Exosomes Released from Atrophying Muscle Cells
Matthew B. Hudson, 1 Carina M. Pautz, 2 Carlos A. Barrero, 3 Ellen M. Kelly, 1 Joshua T. Selsby, 2 Brittany E. Wilson, 1 Temple University, Philadelphia, PA. 1 Iowa State University, Ames, IA.
(No sponsor reported)

1254  Board #2  8:00 AM - 10:00 AM
Ribosomal Capacity’s Relationship to Muscle Oxidative Metabolism: A Role for Exercise and GP130 Signaling
Brittany R. Counts, Dennis K. Fix, Justin P. Hardee, James A. Carson, FACSM. University of South Carolina, Columbia, SC. (Sponsor: Dr. James A. Carson, FACSM)
(No relationships reported)

1255  Board #3  8:00 AM - 10:00 AM
The Relationship Between Serum Testosterone and Skeletal Muscle Wet Mass Protein Markers in 3–24-month Old Rats
Pete W. Mumford, 1 C. Brooks Mobley, 1 Wesley C. Kephart, 1 Cody T. Haun, 1 Matthew A. Romaro, 1 Xuansong Mao, 1 Shelby C. Osburn, 1 Kaelin C. Young, 1 Darren T. Beck, 1 Jeffery S. Martin, 2 Ryan P. Lowery, 2 Jacob M. Wilson, 2 Michael D. Roberts, 1 Auburn University, Auburn, AL, 2 Edward Via College of Osteopathic Medicine, Auburn, AL 3 Applied Sport Performance Institute, Tampa, FL.
(No relationships reported)
American College of Sports Medicine

1256 Board #4  8:00 AM - 10:00 AM
A Single Bout Of Cryotherapy Does Not Alter The
Transcriptome Or Metabolome Of Human Skeletal Muscle
Dylan C. Sarver, Kristoffer B. Sugg, Nate P. Disser, Elizabeth R.
Siblisky Enselman, Christopher L. Mendias. University of Michigan, Ann Arbor, MI.
Email: dcsarver@umich.edu
(No relationships reported)

1257 Board #5  8:00 AM - 10:00 AM
Transcriptional Signatures of Human Skeletal Muscle in
Response to Aerobic and Resistance Exercise
Jared M. Dickinson1, Andrew C. D’Lugos1, Marcus Naymik1, Matt
De Both1, Ashley Siniard2, Amandna Wolfe2, Donald Curtis3, Glenn
A. Gaesser, FACSM1, Matthew J. Huentelman2, Chad C. Carroll4.
1Arizona State University, Phoenix, AZ. 2Translational Genomics
Research Institute, Phoenix, AZ. 3Midwestern University, Glendale,
AZ. 4Purdue University, West Lafayette, IN. (Sponsor: Glenn Gaesser,
FACSM)
Email: jared.dickinson@asu.edu
(No relationships reported)

C-14 Thematic Poster - Sex Differences in Cardiovascular Physiology
Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 505

1261 Chair: James H. Hull. Royal Brompton Hospital, London, United Kingdom.
(No relationships reported)

1262 Board #1  8:00 AM - 10:00 AM
No Sex Differences in Muscle O2 Delivery-to-Utilization
Matching Before or During Contractions in Rats
Jesse C. Craig, Michael J. Schetler, Trenton D. Colburn, Daniel M.
Hirai, David C. Poole, FACSM, Timothy I. Musch, FACSM. Kansas State
University, Manhattan, KS. (Sponsor: Timothy I. Musch, FACSM)
Email: jccraig@ksu.edu
(No relationships reported)

1263 Board #2  8:00 AM - 10:00 AM
Sex-specific Differences In Pulse Wave Reflection And
Arterial Stiffness After Resistance Exercise
Erica M. Marshall, Alaina Glasgow, Yu Lun Thai, J. Derek Kingsley.
Kent State University, Kent, OH. (Sponsor: Ellen L Glickman, Ph.D.,
FACSM)
Email: emarsh14@kent.edu
(No relationships reported)

1264 Board #3  8:00 AM - 10:00 AM
Comparing Two Low-Intensity Resistance Training
Modalities on Strength and Wave Reflection in
Postmenopausal Dynapenic Women
Salvador J. Jaine, Stacey Alvarez-Alvarado, Jeremiah C. Campbell,
Arturo Figueroa, FACSM. Florida State University, Tallahassee, FL.
(Sponsor: Arturo Figueroa, FACSM)
(No relationships reported)

1265 Board #4  8:00 AM - 10:00 AM
Sex Differences in the Influence of Leg Strength on Arterial
Stiffness.
Georgios Grigoriadis, Alexander J. Rosenberg, Sang Ouk Wee,
Elizabeth C. Schroeder, Kanokkwan Bunawanit, Bo Femhall, FACSM,
Tracy Baynard, FACSM. University of Illinois at Chicago, Chicago,
IL. (Sponsor: Tracy Baynard, FACSM)
Email: gggrigoriadis19@gmail.com
(No relationships reported)

1266 Board #5  8:00 AM - 10:00 AM
Blood Flow Responses To Acute Exercise Differ By
Menopausal Status
Corinna Serviente, Lauren Richardson, Sarah Witkowski. University of
Massachusetts Amherst, Amherst, MA. (Sponsor: Jane A. Kent,
FACSM)
(No relationships reported)

1267 Board #6  8:00 AM - 10:00 AM
Long Term Effects of Menopausal Hormone Therapy on
Cerebral Pulsatility Index
Nicole A. Eisenmann1, Kathleen B. Miller1, Alexa E. Carl1, Ronée
Harvey2, Michael J. Joyner, FACSM1, Virginia M. Miller2, Jill
N. Barnes1. 1Northwestern University, Chicago, IL. 2Mayo Clinic
College of Medicine, Rochester, MN. (Sponsor: Ellen L Glickman, Ph.D.,
FACSM)
(No relationships reported)

C-15 Free Communication/Slide - Aging
Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 401

1269 Chair: Loretta DiPietro, FACSM. The George Washington
University School of Public Health and Health Services,
Washington, DC.
(No relationships reported)

1270 8:00 AM - 8:15 AM
Improved Strength and Balance in Older Adults Following
an 8-week Eccentric Training Program
Samantha Johnson, Dana Fuller, Bunny Donnelly, Jenn Caputo.
Middle Tennessee State University, Murfreesboro, TN.
Email: sly4x@mtmail.mtsu.edu
(No relationships reported)
**P88 Final Program**

1271 8:15 AM - 8:30 AM
**Improvements Following a Speed-Based Go4Life Group Exercise Intervention in Older Adults**
Maria Bellumori, California State University, Monterey Bay, Seaside, CA. (Sponsor: Kent J. Adams, FACSM)
(No relationships reported)

1272 8:30 AM - 8:45 AM
**Age-related Differences in Maximal and Rapid Hamstrings to Quadriceps Strength Capacities and Vertical Jump Power**
Ty B. Palmer¹, Brittany N. Followay², Brennan J. Thompson³. ¹Texas Tech University, Lubbock, TX. ²Kent State University, Kent, OH. ³Utah State University, Logan, UT. (Sponsor: C. Roger James, FACSM)
(No relationships reported)

1273 8:45 AM - 9:00 AM
**Supramaximal-Exercise Training Improves Fitness and Ratings of Perceived-Exertion in Adults Aged 50 Years and Over**
Georges Jabbour¹, Pascale Mauriège², Denis R. Joanisse², Luc J. Martin³, Horia-Daniel Iance⁴. ¹Université de Moncton, Moncton, NB, Canada. ²Université Laval, Québec, QC, Canada. Email: georgesjabbour1980@hotmail.com
(No relationships reported)

1274 9:00 AM - 9:15 AM
**Maximal Strength Training-induced Neural Plasticity With Age: Cross-limb Effects**
Tiril Toien, Runar Unhjem, Thomas Øren, Ann Charlotte Kvellestad, Eivind Wang. The Norwegian University of Science and Technology, Trondheim, Norway. Email: tiril@stud.ntnu.no
(No relationships reported)

1275 9:15 AM - 9:30 AM
**Using The FMSTM To Asses The Degenerative Changes Of Functional Performance In Mid-aged And Older People**
Zhengliang Xia, Shengnian Zhang, Yu Liu, Jia Han. Shanghai University of sports, Shanghai, China. Email: 75140559@qq.com
(No relationships reported)

1276 9:30 AM - 9:45 AM
**Physical Activity Intervention in Older Adults: Greater Gains In Functional Performance In Older Adults At Higher Risk For Mild Cognitive Impairment**
Rado Pisot, Armin Paravic, Uros Marusíc, Boštjan Šimunič. University of Primorska, Koper, Slovenia. Email: rado.pisot@zrs.upr.si
(No relationships reported)

1277 9:45 AM - 10:00 AM
**Two-Year High-Intensity Aerobic Training Program Prevents Age-Associated Health Risk Factor Development in Sedentary Middle-Aged Adults**
Mitchel Samels, Erin Howden, Tom Sarma, Justin Lawley, Dean Palmer, Braden Everding, William Conwell, Christopher Hearon, Jr., Sheryl Livingstone, Benjamin D. Levine, FACSM. Institute for Exercise and Environmental Medicine, Dallas, TX.
(No relationships reported)

**C-16 Free Communication/Slide - Chronic Disease and Health**
Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 103

1278 Chair: Janet Walberg-Rankin, FACSM. Virginia Tech, Blacksburg, VT.
(No relationships reported)
C-17 Clinical Case Slide - Knee II
Thursday, June 1, 2017, 8:00 AM - 10:00 AM
Room: 507

Chair: Mark E. Lavallee, FACSM. Wellspan York Hospital, South Bend, IN.
(No relationships reported)

Discussant: Wayne E. Derman. Stellenbosch University, Cape Town, South Africa.
(No relationships reported)

Discussant: Peter Gerbino, FACSM. Montereey Joint Rep and Sports Medicine, Monterey, CA.
(No relationships reported)

8:00 AM - 8:20 AM
Knee Pain: An Uncommon Presentation
Benjamin P. Smith, Wade M. Rankin, Kelly Evans-Rankin, J.M. McNaught. University of Kentucky, Lexington, KY.
Email: bpsmit2@uky.edu
(No relationships reported)

8:20 AM - 8:40 AM
Bilateral Knee Pain: Day #1 Of Training From Couch To 5k
Jennifer Gourdin1, Matthew Sedgley2. 1 The University of Maryland, Baltimore, MD. 2 MedStar, Westminster, MD.
(No relationships reported)

8:40 AM - 9:00 AM
Posterior Knee Pain in a Cyclist
Allison Schafer. UCONN, Hartford, CT. (Sponsor: Jeffrey Anderson, M.D., FACSM)
(No relationships reported)

9:00 AM - 9:20 AM
Acute Knee Pain in a Professional Baseball Player
Ryan C. Wernell. Wellspan York Hospital, Red Lion, PA. (Sponsor: Mark Lavallee, MD, FACSM)
(No relationships reported)

9:20 AM - 9:40 AM
Complicated Synovial Cyst Tibiofibular Joint - Squash
Email: chrisjaunesevanrensburg@up.ac.za
(No relationships reported)

9:40 AM - 10:00 AM
Hyperextension Knee Injury in College Football Player
Kent P. Scheff. University of Michigan, Ann Arbor, MI. (Sponsor: Robert Kiningham, FACSM)
Email: kscheff@med.umich.edu
(No relationships reported)

C-18 Clinical Case Slide - Medical Issues I
Thursday, June 1, 2017, 8:00 AM - 9:40 AM
Room: 402

Chair: Steven D. Stovitz, FACSM. University of Minnesota, Minneapolis, MN.
(No relationships reported)

1297 Discussant: Kathryn E. Ackerman, FACSM. Children’s Hospital Boston, Cambridge, MA.
(No relationships reported)

1298 Discussant: John Mark MacKnight, FACSM. University of Virginia, Charlottesville, VA.
(No relationships reported)

1299 8:00 AM - 8:20 AM
Parkinson’s Disease: Eccentric Training To Reduce Symptoms
Jeffrey A. Bauer. Irena Vincent, Philip J. Buckenmeyer, Mark Sutherlin, Erik Lind, Kevin Dames, Alexander Generali, Brandon Schrom, Maura Mills. SUNY Cortland, Cortland, NY.
Email: jeff.bauer@ cortland.edu
(No relationships reported)

1300 8:20 AM - 8:40 AM
Alcohol Addiction - Improving Brain Oxygenation and Cognition Through a Three-Month Running Program
Email: daniel.aranha13@hotmail.com
(No relationships reported)

1301 8:40 AM - 9:00 AM
Lower Extremity Rash - Soccer
Ryan Matthiesen DO, Jennifer Mitchell MD, Jordan McDermott ATC. Texas Tech University, Lubbock, TX.
Email: ryan.matthiesen2@gmail.com
(No relationships reported)

1302 9:00 AM - 9:20 AM
Hepatotoxicity Associated With Frozen Shoulder In A 47 Year Old Tennis Player; What’s The Link?
Michael J. Murphy, Brian Keisler. Palmetto Health Richland - University of South Carolina, Columbia, SC.
(No relationships reported)

1303 9:20 AM - 9:40 AM
Pancreatic Cancer - Preoperative Exercise During Neoadjuvant Treatment
Nicole L. Klochak, Rebecca A. Ruiz, Ryan J. Marker, John C. Peters, W. Thomas Purcell, Catherine M. Jankowski. University Of Colorado Anschutz Medical Campus, Aurora, CO. (Sponsor: Catherine M. Jankowski, FACSM)
Email: Nicole.klochak@ucdenver.edu
(No relationships reported)

C-19 Clinical Case Slide - Wrist and Hand
Thursday, June 1, 2017, 8:00 AM - 9:40 AM
Room: 504

1304 Chair: Suzanne S. Hecht, FACSM. University of Minnesota, Minneapolis, MN.
(No relationships reported)

1305 Discussant: Hallie Labrador. NorthShore University HealthSystem, Chicago, IL.
(No relationships reported)

1306 Discussant: Brian A. Davis, FACSM. University of California-Davis, Sacramento, CA.
(No relationships reported)

1307 8:00 AM - 8:20 AM
Finger Injury - Flag Football
Leon M. Bathini Jr1, Insola Melli1, Jeff Paxton1, Karl Punktatz2. 1 Texas Tech University Health Sciences Center, Lubbock, TX. 2 Covenant Medical Center, Lubbock, TX.
Email: leonbathinijr@hotmail.com
(No relationships reported)
Hands On Demonstration
Centennial Ballroom F
Centennial Ballroom A
Centennial Ballroom D

THURSDAY, JUNE 1, 2017

1314 Wrist and Hand injuries commonly occur in sports and are not always easily detectable on initial clinical examination. Furthermore, certain injuries are conducive to immediate taping and bracing support and will allow for return to participation, while others should be carefully assessed and warrant a removal from play prior to further participation. This workshop will review clinical exam techniques to differentially diagnose wrist and hand injuries in sports.

Jeff G. Konin, FACSM. University of Rhode Island, Kingston, RI.
(No relationships reported)

C-20 Tutorial Lecture - Pre-sleep Nutrition: To Eat or Not to Eat
Thursday, June 1, 2017, 8:00 AM - 8:50 AM
Room: 104

This session will update the audience with current literature and trends in pre-sleep nutrition for both athletes and clinical populations. Eating before sleep to optimize muscle protein synthesis, metabolism, body composition, recovery, and performance will be examined.

Michael J. Ormsbee, FACSM. Florida State University, Tallahassee, FL.

Luc JC van Loon. Maastricht University Medical Centre, Maastricht, Netherlands.

C-22 Exercise is Medicine® - Tutorial Lecture - Active Rehabilitation following Sport-Related Concussion: Current Status and Future Directions
Thursday, June 1, 2017, 8:00 AM - 8:50 AM
Room: Hotel-Centennial Ballroom A

Sport-related concussions negatively affect several systems including visual, vestibular and postural systems. Current practice following a sport-related concussion includes physical and mental rest. However, active rehabilitation has been proposed as a novel method to treat lingering concussion-related symptoms and deficits. The purpose of this tutorial is to present the current state of knowledge in active rehabilitation including prospective and anecdotal evidence, and to discuss on-going and developing research findings pertaining to the efficacy of active rehabilitation following concussion.

C-23 Exercise is Medicine® - Tutorial Lecture - Moving from our Reactive ‘Sick Care’ Model to Proactive Healthcare: Changing Paradigms and Perceptions
Thursday, June 1, 2017, 8:00 AM - 8:50 AM
Room: Hotel-Centennial Ballroom D

Chronic disease accounts for ~75% of total healthcare costs and the majority of deaths in the U.S. Foundational or proximal risk factors include poor dietary habits, physical inactivity, and cigarette smoking/secondhand smoke. Because modifiable behaviors represent the single greatest determinant of health outcomes, responsible for ~50% of all premature deaths, and patients with chronic disease typically spend >5000 hours each year independent of healthcare and medical providers, it is critical to arm them with behavior change strategies and interventions that they can implement in their immediate environment. Structural and social forces should make healthy lifestyle practices more easily accessible.

C-24 Exercise is Medicine® - Tutorial Lecture - Should Physicians Develop Their Own Fitness Communities?
Thursday, June 1, 2017, 8:00 AM - 8:50 AM
Room: Hotel-Centennial Ballroom F

This session will address the concept of starting and developing physician-led fitness communities and programs. The unique role of physician to develop these community based programs and the steps needed to implement them will be addressed.

ACSM May 30 – June 3, 2017
Denver, Colorado
## C-25  Tutorial Lecture - NYSHIS/ACSM Think Tank Update- Regenerative Medicine and Youth Sports: Current Status and Future Directions for Research and Clinical Practice

**Thursday, June 1, 2017, 9:10 AM - 10:00 AM**
**Room: 104**

A report on the outcomes of The National Youth Sports Health & Safety Institute innovative think tank in regards to regenerative medicine in youth sports

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### 1320
Thomas Best, FACSM. University of Miami Miller School of Medicine, Miami, FL.  
(No relationships reported)

## C-26  Clinical Workshop-Hands On Demonstration - Gymnastics: A New Olympic Quadrennium

**Thursday, June 1, 2017, 9:10 AM - 10:00 AM**
**Room: 501**

Every 4 years, there is a media frenzy regarding the tiniest competitors at the Olympics: the gymnasts. This coverage leads to surge in the number of children participating in gymnastics the year after the Olympics. Providers need to be able to relate to their gymnast patients by understanding skills provided and injuries that may occur in the sport. This session will review basics of gymnastics and provide an overview of current updates for the sport. Finally, demonstration of adequate and poor gymnastics technique that can easily be evaluated in the clinic will be reviewed with the assistance of local gymnasts.

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### 1321
Emily A. Stuart. Children’s Hospital Colorado, Aurora, CO.  
(No relationships reported)

## C-27  Exercise is Medicine® - Tutorial Lecture - The HERITAGE Family Study: Implications for Clinical Practice and Exercise Prescription

**Thursday, June 1, 2017, 9:10 AM - 10:00 AM**
**Room: Hotel-Centennial Ballroom D**

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### 1322
James Skinner, FACSM. Brevard, NC.  
(No relationships reported)

## C-28  Exercise is Medicine® - Tutorial Lecture - Navigating the Challenges of Musculoskeletal Pain with Exercise in Obese Children

**Thursday, June 1, 2017, 9:10 AM - 10:00 AM**
**Room: Hotel-Centennial Ballroom F**

Two opposing lifestyle patterns, a diminishing participation in regular physical activity and increasing body habitus, increase the presence of musculoskeletal diseases and joint pain in children. The challenge for the field of sports medicine is how to help obese children overcome the discomforts of unaccustomed exercise and keep them engaged in exercise over the long term. Concomitant increases in obesity and decreases in physical activity level strongly support the need to better understand the musculoskeletal factors associated with the performance of exercise by overweight and obese children. This lecture will present the expected, common musculoskeletal issues participating in exercise over the long term, will be described. As children transition to adulthood, adjunctive treatments that may be used to help this population maintain physical activity patterns will be described.

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### 1323
Heather K. Vincent, FACSM. University of Florida, Gainesville, FL.  
(No relationships reported)

## C-29  Exercise is Medicine® - Tutorial Lecture - Implementing Exercise is Medicine in a Healthclub: The Claremont Club Experience

**Thursday, June 1, 2017, 9:10 AM - 10:00 AM**
**Room: Hotel-Centennial Ballroom A**

This session will tell the story of how EIM was implemented and how it is working at the Claremont Club in California. The talk will include how important it is to energize the health club industry behind EIM. Claremont Club CEO Mike Alpert will talk about how he has implemented wide ranging EIM programs at his club and how well these programs have been working. There will be case studies and video testimonials from very high profile patients and health club industry leaders on his innovative program. This talk is relevant to both physicians and fitness pros, along with the EIM staff.

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### 1324
Robert E. Salles, FACSM. Kaiser Permanente Medical Center, Fontana, CA.  
(No relationships reported)

### 1325
Mike G. Alpert. The Claremont Club, Claremont, CA.  
(No relationships reported)

## C-30  Free Communication/Poster - ACL Injury

**Thursday, June 1, 2017, 7:30 AM - 12:30 PM**
**Room: Hall F**

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### 1326
Board #1  8:00 AM - 9:30 AM
Impulsive Loading During Running Following Anterior Cruciate Ligament Reconstruction  
Derek N. Pannuoff, Michael N. Vaculla, Tyler J. Moffit, Kevin Choe, Melissa M. Montgomery. California State University, Fullerton, Fullerton, CA.  
(Sponsor: Lee E. Brown, FACSM)  
(No relationships reported)

### 1327
Board #2  8:00 AM - 9:30 AM
Aberrant Gait Biomechanics Are Not Associated with Aberrant Landing Biomechanics in Those with ACL Reconstruction  
Steven Pfeiffer, Troy Blackburn, Brittemy Luc-Harkey, Matthew Harkey, Laura Stanley, Stephen Marshall, Jeffrey Spang, Brian Pietrosimone, Darin Padua. University of North Carolina at Chapel Hill, Chapel Hill, NC.  
Email: stevenpf@email.unc.edu  
(No relationships reported)

### 1328
Board #3  8:00 AM - 9:30 AM
Quadriecps Function is Associated with Running Kinetics Post Anterior Cruciate Ligament Reconstruction  
Tyler J. Moffit, Melissa N. Montgomery, Michael N. Vaculla, Kevin Choe, Derek N. Pannuoff. California State University, Fullerton, Fullerton, CA.  
(Sponsor: Lee Brown, FACSM)  
(No relationships reported)

### 1329
Board #4  8:00 AM - 9:30 AM
Objectively Measured Physical Activity in Patients after ACL Reconstruction  
David R. Bell1, Karin Pfeiffer, FACSM2, Lisa Cadmus-Bertram3, Stephanie M. Trigsted4, Adam Kelly5, Eric G. Post6, Joe Hart, FACSM7, Dane Cook1, Warren Dunn4, Chris Kunzze1. 1University of Wisconsin-Madison, Madison, WI. 2Michigan State University, East Lansing, MI. 3Michigan State University-East Lansing, MI. 4University of Virginia, Charlottesville, VA.  
(Sponsor: Joe Hart, FACSM)  
Email: dbell1@wisc.edu  
(No relationships reported)

### 1330
Board #5  8:00 AM - 9:30 AM
Hop Distance Symmetry Does Not Reflect Biomechanical Symmetry in Adolescents Post-ACL Reconstruction  
Nicole Mueske1, Christopher Brophy2, J. Lee Pace1, Tracy Zaslow1, Mia Katzel1, Curtis VandenBerg1, Tishya Wren1. 1Children’s Hospital Los Angeles, Los Angeles, CA. 2University of Southern California, Los Angeles, CA.  
Email: nmueske@chla.usc.edu  
(No relationships reported)
<table>
<thead>
<tr>
<th>Board #</th>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>93</td>
<td>8:00 AM - 9:30 AM</td>
<td>Contribution of the Sensorimotor System to Landing Demand and Risk Factors For ACL Injury</td>
<td>Nicholas R. Heebe, Timothy C. Selig, Mia L. Local, John P. Ait, FACSM, Scott M. Leiphart, FACSM. University of Kentucky, Lexington, KY. Duke University, Durham, NC. University of Pittsburgh, Pittsburgh, PA. Email: <a href="mailto:nick.heebe@uky.edu">nick.heebe@uky.edu</a></td>
</tr>
<tr>
<td>94</td>
<td>8:00 AM - 9:30 AM</td>
<td>Comparison Of Post-ACLR Kinematics Between Landings Of A Drop Vertical Jump: Implications For Injuy Risk</td>
<td>Madison J. Markoe, Paul W. Kline, Mary Lloyd Ireland, FACSM, Darren Johnson, FACSM, Brian Noehren, FACSM. University of Kentucky, Lexington, KY.</td>
</tr>
</tbody>
</table>
1347 Board #22  9:00 AM - 10:30 AM
Validation of Caloric Expenditure Using the Apple Watch and the Fitbit Zip
Cynthia M. Ferrara, FACSM, Shelby Smyth, Erin Mullan, Christopher Burke. Merrimack College, North Andover, MA. (No relationships reported)

1348 Board #23  9:00 AM - 10:30 AM
How Accurately The Smartwatch Measures Steps?
Skyler Brooke, 68122, Jung-Min Lee. University of Nebraska at Omaha, Omaha, NE. (No relationships reported)

1349 Board #24  9:00 AM - 10:30 AM
Validation Of iWatch in Measuring Energy Expenditure during Different Levels of Physical Activity
Peng Zhang1, Chad Witmer1, Steve Godin2, Dongsheng Che1, Matthew Owens1, Amanda Hanna1, Thomas Casey1, Rebecca Finnegan1, Cleo Niewojt1. 1East Stroudsburg University, East Stroudsburg, PA. 2University of Utah, Salt Lake City, UT. 3Syracuse University, Syracuse, NY. Email: zhpg@esz.edu (No relationships reported)

1350 Board #25  9:00 AM - 10:30 AM
“How ‘bout Them Apples?” Validating Step Counts From The Apple Watch
Bertha Lee, Dinesh John. Northeastern University, Boston, MA. Email: lee.bert@husky.neu.edu (No relationships reported)

1351 Board #26  9:00 AM - 10:30 AM
Validation Of A Wrist Worn Consumer Physical Activity Monitor
Monroe J. Molesky, Joe R. Mittzky, Alexander H.K. Montoye. Alma College, Alma, MI. (No relationships reported)

1352 Board #27  9:00 AM - 10:30 AM
Accuracy of Wrist-Worn Activity Monitors during Treadmill and Elliptical Ergometry
John D. Smith. Texas A&M University-San Antonio, San Antonio, TX. (No relationships reported)

1353 Board #28  9:00 AM - 10:30 AM
Fitbit And Actigraph: A Comparison Of Physical Activity And Sedentary Time In Overweight/obese Adults
Amanda N. Szabo-Reed1, Erik Willis2, Lauren Ptooney1, Richard Washburn, FACSM1, Joseph Donnelly, FACSM1. 1Kansas University Medical Center, Kansas City, KS. 2National Institute of Cancer, NIH, MD. (Sponsor: Joseph Donnelly, FACSM) Email: Szabo2@ku.edu (No relationships reported)

1354 Board #29  9:00 AM - 10:30 AM
Sources of Error with Wearable Step Counters
Susan Park, Lindsay P. Toth, Alvin L. Morton, Whitney L. Pittman, Damla Sarasaltik, David R. Bassett, FACSM. University of Tennessee, Knoxville, TN. (Sponsor: David R Bassett, FACSM) Email: spark48@vols.utk.edu (No relationships reported)

1355 Board #30  9:00 AM - 10:30 AM
Step Count Filters in Wearable Step Counters
Lindsay Toth, Susan Park, Whitney Pittman, Damla Sarasaltik, Alvin L. Morton, David R. Bassett, FACSM. University of Tennessee, Knoxville, TN. (Sponsor: David R. Bassett, FACSM) Email: ltoth2@vols.utk.edu (No relationships reported)
C-32 Free Communication/Poster - Biomechanics in Ball Sports

Thursday, June 1, 2017, 7:30 AM - 12:30 PM
Room: Hall F

1366 Board #41 8:00 AM - 9:30 AM
Effect of Jaw Pad Thickness on American Football Helmet Performance
Sean E. Quisenberry, Mark Jesanathadas, Scott G. Piland, Trenton E. Gould. University of Southern Mississippi, Hattiesburg, MS.
Email: sean.quisenberry@usm.edu
(No relationships reported)

1367 Board #42 8:00 AM - 9:30 AM
Can an Elbow Brace Change Elbow Valgus Acceleration During Throwing?
Takahiro Otsudo1, Hiroshi Hattori2, Yutaka Sawada1, Yu Okubo1, Kiyokazu Akasaka1. 1 Saitama Medical University, Saitama, Japan. 2 Saitama Medical Center Saitama Medical University, Saitama, Japan.
Email: otsudo@saitama-med.ac.jp
(No relationships reported)

1368 Board #43 8:00 AM - 9:30 AM
Perceived and Actual Throwing Performance of Quarterbacks While Wearing Soft and Hard Rib Protectors
(No relationships reported)

1369 Board #44 8:00 AM - 9:30 AM
Kinematic Predictors of Ball Velocity and Elbow Varus Torque in Adolescent Baseball Pitchers
Amy I. Whitel, Corey I. Dawkins, Dai Sagimoto, Donald S. Bae, David R. Howell. The Micheli Center for Sports Injury Prevention, Waltham, MA.
Email: amy.whited@childrens.harvard.edu
(No relationships reported)

1370 Board #45 8:00 AM - 9:30 AM
Electromyographic Analysis Of The Elbow And Forearm In The Overhead Football Throw
Scott Winnier1, Jarrod Sinith2, Adam Anz2, Roger Ostrander1, Lonnie Douglas2, James Andrews1. 1 Independent Research, Pensacola, FL. 2 Andrews Institute, Gulf Breeze, FL.
(No relationships reported)

1371 Board #46 8:00 AM - 9:30 AM
Changes In Functional Movement Patterns And Injuries For In-season Division III Women.
Jordyn E. Baumani, Sarah Hendrix1, Garrett S. Bullock2, Christopher R. Harnish1. 1 Ferrum College, Ferrum, VA. 2 Garrett Bullock, Durham, NC. (Sponsor: Scott Kieffer, FACSM)
Email: chambani@ferrum.edu
(No relationships reported)
C-34  Free Communication/Poster - Biomechanics of Jumping, Landing, and Cutting

Thursday, June 1, 2017, 7:30 AM - 12:30 PM
Room: Hall F

1387  Board #62  8:00 AM - 9:30 AM
A Comparison of Different Methods for Assessing Plyometric Ability During Jumps
Brandon W. Snyder1, Gavin L. Moir1, Chris Connaboy2, Hugh S. Larnont1, Shala E. Davis, FACSM3. 1East Stroudsburg University, East Stroudsburg, PA. 2University of Pittsburgh, Pittsburgh, PA. 3Coastal Carolina University, Conway, SC. (Sponsor: Shala Davis, FACSM)
(No relationships reported)

1388  Board #63  8:00 AM - 9:30 AM
The Influence Of The Number Of Jumps On Eccentric And Concentric Force-Velocity Characteristics
Gavin L. Moir1, Brandon W. Snyder1, Chris Connaboy2, Hugh S. Larnont1, Shala E. Davis, FACSM3. 1East Stroudsburg University of Pennsylvania, East Stroudsburg, PA. 2University of Pittsburgh, Pittsburgh, PA. 3Coastal Carolina University, Conway, SC. (Sponsor: Shala E. Davis, FACSM)
(No relationships reported)

1389  Board #64  8:00 AM - 9:30 AM
Squat Jump Performance is Not Related to Bilateral Asymmetry or Training State in College-aged Men
Caleb Bischoff1, Nathan T. Gorman2, Jerry L. Mayhew1, William F. Breechue, FACSM1. 1Truman State University, Kirksville, MO. 2Rocky Vista College of Osteopathic Medicine, Parker, CO. 3A.T. Still University of Health Sciences, Kirksville College of Osteopathic Medicine, Kirksville, MO. (Sponsor: William F. Breechue, Ph.D., FACSM)
(No relationships reported)

1390  Board #65  8:00 AM - 9:30 AM
Biomechanical Comparison of Loaded Countermovement Jumps on Land and in Water
Talin Louder, Eadric Bressel, Clint Nardoni, Kristin Gollofon, Dennis Dolny. Utah State University, Logan, UT. Email: talinlouder@yahoo.com
(No relationships reported)

1391  Board #66  8:00 AM - 9:30 AM
Strength and Biomechanical Contributions to Vertical Ground Reaction Forces in a Single Limb Landing Task
Alexa K. Johnson, Joshua D. Winters, Kathleen M. Poploski, Nicholas R. Heebner, Scott M. Lephart, FACSM, John P. Abt, FACSM. University of Kentucky, Lexington, KY. (Sponsor: John Abt, FACSM)
(No relationships reported)

1392  Board #67  8:00 AM - 9:30 AM
Influence of Trunk Angle on Joint Mechanics During the Vertical Jump
Spencer Petersen1, Michael Beine2, Tyler Standifird1, Anthony Bischler2, Tamara Borius3. 1Utah Valley University, Orem, UT. 2Western Illinois University, Macomb, IL. 3Salem Health, Oregon. (Sponsor: Scott Drum, FACSM)
(No relationships reported)

1393  Board #68  8:00 AM - 9:30 AM
Effects of Athletic Floor Surfaces on Cutting and Jumping Ground Reaction Forces in Female Athletes
Edward Nyman, Jr., Scott Van Zant, Vickie Colchagoff, Susan Stevens, Alexis Morrison, Ashleigh Weddington. The University of Findlay, Findlay, OH. Email: nyman@findlay.edu
(No relationships reported)

(No relationships reported)
Board #69 8:00 AM - 9:30 AM

Relationship Between Functional Movement Patterns And Performance Between Division III Women's Soccer And Volleyball
Sarah N. Hendrix, Jordyn Baumann, Garrett S. Bullock, Christopher R. Harnish. 1Ferrum College, Ferrum, VA. 2Duke University, Durham, NC.
Email: shendrix@ferrum.edu
(No relationships reported)

Board #70 8:00 AM - 9:30 AM

Lower Limb Kinetic And Kinematic Effects Of An Arm Swing During Counter-movement Vertical Jumps
Eric M. Mosier, Andrew C. Fry, Michael T. Lane, Patrick G. Moodie, Jonathan R. Moodie. 1University of Kansas, Lawrence, KS. 2Eastern Kentucky University, Richmond, KY. 3Dynamic Athletics Research Institute, Overland Park, KS.
Email: emosier4@ku.edu
(No relationships reported)

Board #71 8:00 AM - 9:30 AM

Visual Memory Influences The Effect of Soccer Ball Handling on Knee Valgus Angle while Cutting
Scott M. Monfort, Jared J. Pradarelli, Dustin R. Grooms, James A. Ohtae, Ajiit M.W. Chaudhari, FACSM. 1The Ohio State University, Columbus, OH. 2Ohio University, Athens, OH.
Email: scott.monfort@osu.edu
(No relationships reported)

Board #72 8:00 AM - 9:30 AM

Landing Kinetics and Time to Stabilization for Loaded Countermovement Jumps Performed on Land and in Water
Devin Patterson. Utah State University, Logan, UT.
(No relationships reported)

Board #73 8:00 AM - 9:30 AM

Pre-landing Lower Extremity Kinematics and Muscle Activation in Chronic Ankle Instability Patients Following Rehabilitation Intervention
S. Jun Son, Hyunsoo Kim, Brian Wiseman, Jordan Read, Dustin Bruening, Matthew K. Seeley, J. Ty Hopkins, FACSM. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA. 3West Virginia University, Morgantown, WV. (Sponsor: J. Ty Hopkins, FACSM)
Email: seongjunson@gmail.com
(No relationships reported)

Board #74 8:00 AM - 9:30 AM

Effects of Jump Landing on Achilles Tendon Loading
Naghmeh Gheidi, Thomas W. Kernozek, FACSM. University of Wisconsin-La Crosse, La Crosse, WI.
Email: ngheidi@uwlaus.edu
(No relationships reported)

Board #75 8:00 AM - 9:30 AM

Test-retest Reliability Of The Kinetic Time To Stabilization Measurement During A Single-legged Jump Landing
Colin W. Bond, Jason C. Dorman, Lisa N. MacFadden, Thayne A. Munce, FACSM. Sanford Health, Sioux Falls, SD. (Sponsor: Thayne A. Munce, FACSM)
Email: colin.bond@sanfordhealth.org
(No relationships reported)

Board #76 8:00 AM - 9:30 AM

Effect of Ankle and Hip Rehabilitation Intervention on Knee Landing Mechanics in Chronic Ankle Instability
Joseph E. Mills, S. Jun Son, Hyunsoo Kim, Brandon Winward, Dustin Bruening, Matthew K. Seeley, J. Ty Hopkins, 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM)
Email: josephemills@gmail.com
(No relationships reported)

Board #77 8:00 AM - 9:30 AM

The Effect of a Single Bout of Exercise on the Motor Learning of a Drop Vertical Jump Landing Strategy
Patrick Grabowski, Dianne Kilgas, Cassie Raduka, Lindsey Sheehan, Emily Sobocinski, Christian Hintz, Michael Price. University of Wisconsin La Crosse, La Crosse, WI.
Email: pgrabowski@uwlaex.edu
(No relationships reported)

Board #78 8:00 AM - 9:30 AM

Association Between Rate of Torque Development, Strength, Landing Biomechanics, And Dynamic Postural Stability In Physically Active Males
Joshua D. Winters, Alexa K. Johnson, John Abt, FACSM, Nicholas Heebner, Kathleen M. Poploski, Scott D. Royer, Scott Lephart, FACSM. 1University of Kentucky, Camp Lejeune, NC. 2University of Kentucky, Lexington, KY. (Sponsor: John Abt, FACSM)
(No relationships reported)

Board #79 8:00 AM - 9:30 AM

Biomechanical Correlates of Vertical Jump Height in Children
Rebecca S. Angles, Adam E. Jagodinsky, Jeffrey Cowley, FACSM, Steve McCaw, Michael Torry. Illinois State University, Normal, IL. (Sponsor: David Q. Thomas, FACSM)
(No relationships reported)

Board #80 8:00 AM - 9:30 AM

Peak Power and Hip Moment Predict Vertical Jump Height in Children
Benjamin L. Hileman, Adam E. Jagodinsky, Jeffrey Cowley, Steve McCaw, Michael Torry. Illinois State University, Normal, IL. (Sponsor: David Q. Thomas, FACSM)
(No relationships reported)

Board #81 8:00 AM - 9:30 AM

Joint Loading While Jumping on a Pilates Reformer
Katherine Spitzley, James Becker. 1University of Oregon, Eugene, OR. 2Montana State University, Bozeman, MT.
(No relationships reported)

Board #82 8:00 AM - 9:30 AM

Joint Stiffness and Energy Contribution during Drop Jump in Fatigued and Non-fatigued Conditions
Xiaole Sun, Xi Wang, Yang Yang, Rui Xia, Weijie Fu. Shanghai University of Sport, Shanghai, China.
Email: 15800898678@163.com
(No relationships reported)

Board #83 8:00 AM - 9:30 AM

The Relationship Between A New Test Of Trunk Control To Cutting Mechanics
Chelsey Roe, Hayley Reed, Amanda Hickey, Kathryn Lucas, Brian Noehren, FACSM. University of Kentucky, Lexington, KY.
(No relationships reported)

Board #84 8:00 AM - 9:30 AM

Effect of Rehabilitation Intervention on Hip Mechanics during Cutting in Patients with Chronic Ankle Instability
Preston Danielson, S. Jun Son, Hyunsoo Kim, Cameron Hadley, Dustin Bruening, Matthew K. Seeley, J. Ty Hopkins, FACSM. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM)
Email: prestonndanielson@gmail.com
(No relationships reported)

Board #85 8:00 AM - 9:30 AM

Six-week Rehabilitation Intervention Increases Ground Reaction Force during Cutting in Patients with Chronic Ankle Instability
Cameron Hadley, S. Jun Son, Hyunsoo Kim, Preston Danielson, Dustin Bruening, Matthew K. Seeley, J. Ty Hopkins, FACSM. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM)
Email: cameronhadley@gmail.com
(No relationships reported)
Free Communication/Poster - Biomechanics of Resistance Training

Thursday, June 1, 2017, 7:30 AM - 12:30 PM
Room: Hall F

1411 Board #86 8:00 AM - 9:30 AM
Changes in Lower Extremity Energies during Cutting in<br>Clinical and Rehabilitation<br>Intervention<br>Brandon Winward1, S. Jun Son1, Hyunsoo Kim2, Joseph Mills1, Dustin Bruning1, Matthew K. Seeley1, J. Ty Hopkins, FACSM1. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM) Email: brandonkyle11@gmail.com (No relationships reported)

1412 Board #87 9:00 AM - 10:30 AM
Back Squat Performance Characteristics of Resistance Trained Males Are Affected by Wearing Knee Wraps<br>Cardyl Trionfante1, Ben Kantura2, Erica Marshall3, Wahab Aladwani2, Arnold Nelson, FACSM1, J. Derek Kingsley4. 1Louisiana State University, Baton Rouge, LA. 2Kent State University, Kent, OH. (Sponsor: Arnold Nelson, FACSM) Email: randolph.hutchison@furman.edu (No relationships reported)

1413 Board #88 9:00 AM - 10:30 AM
Comparison of Peak Ground Reaction Forces Of Flexible Barbell And Steel Olympic Barbell At Various Lifting Speeds<br>Randolph E. Hutchison, Sun Lee, Lee Shearer, Anthony Caterisano, FACSM. Furman University, Greenville, SC. (Sponsor: Anthony Caterisano, FACSM) Email: randolph.hutchison@furman.edu (No relationships reported)

1414 Board #89 9:00 AM - 10:30 AM
Comparison of the Effect of Flexible Barbell Weight Position on Max Ground Reaction Force<br>Sun Lee, Randolph E. Hutchison, Nicholas Hayden, Simone Alimonti, Anthony Caterisano, FACSM. Furman University, Greenville, SC. (Sponsor: Anthony Caterisano, FACSM) Email: randolph.hutchison@furman.edu (No relationships reported)

1415 Board #90 9:00 AM - 10:30 AM
Ground Reaction Force Asymmetries in the Bodyweight Squat: An Examination of Phases<br>Raoul F. Reiser, II, FACSM, Steven D. Medberry, Grant V. Overmoyer, Colorado State University, Fort Collins, CO. Email: raoul.reiser@colostate.edu (No relationships reported)

1416 Board #91 9:00 AM - 10:30 AM
Effects of Zero-Drop Shoes on Knee Joint Kinematics & Kinetics During the Barbell Back Squat<br>Tanner Thorsen, 379961, Chris Cummings2, Tyler Standifurd3. 1University of Tennessee Knoxville, Knoxville, TN. 2Utah Valley University, Orem, UT. 3Sponsor: Songning Zhang, FACSM) Email: tannerthorsen@gmail.com (No relationships reported)

1417 Board #92 9:00 AM - 10:30 AM
A Kinematic And Kinetic Analysis Of The Partial And Conventional Deadlift In Resistance-trained Males<br>Matthew K. Beeler1, Stuart D. Inglis2, Robert Ammon1, William J. Kraemer, FACSM1, Brett A. Comstock3. 1The Ohio State University, Columbus, OH. 2University at Buffalo, Buffalo, NY. 3University of South Dakota, Vermillion, SD. (Sponsor: William J. Kraemer, FACSM) Email: beeler.56@osu.edu (No relationships reported)

1418 Board #93 9:00 AM - 10:30 AM
Validity Of Using The Microsoft Kinect™ To Automatically Assess Deep Squat Performance<br>Paul D. Smith1, Michael Hanlon1. 1GSK Human Performance Lab, Brentford, United Kingdom. 2Waterford Institute of Technology, Waterford, Ireland. (Sponsor: Glyn Howatson, FACSM) Email: paul.3.smith@gsk.com (No relationships reported)

1419 Board #94 9:00 AM - 10:30 AM
The Effects of Squats and Jump Squats on Mechanical Work and Energy Expenditure<br>Shawn N. Munford, Michael L. Rossetti, Gavin L. Moir, Brandon W. Snyder, Shala E. Davis, FACSM. East Stroudsburg, East Stroudsburg, PA. (Sponsor: Shala E. Davis, FACSM) (No relationships reported)

1420 Board #95 9:00 AM - 10:30 AM
Electromyographic Analysis Of The Two Parts Of The Gluteus Maximus During Squat Exercises<br>Bhupinder Singh, Alex Bachtelle, Derek S. Camilleri, Melissa Lai. California State University, Fresno, CA. Email: bhisingh@csufresno.edu (No relationships reported)

1421 Board #96 9:00 AM - 10:30 AM
A Consecutive Loop Elastic Band Placed Around the Distal End of the Thighs During an Overhead Barbell Squat Increases Medial Knee Collapse<br>Brandon W. Collins1, Davis A. Formani2, Michael E. Rogers, FACSM2, Garrick N. Formani2, Phil Page, FACSM4, Michael W.R. Holmes4, Duane C. Button4. 1Memorial University, St. Johns, NL, Canada. 2University of Ontario Institute of Technology, Oshawa, ON, Canada 3Wichita State University, Wichita, KS. 4Louisiana State University, Baton Rouge, LA. (Sponsor: Michael E Rogers, FACSM) Email: bwc568@mun.ca (No relationships reported)

1422 Board #97 9:00 AM - 10:30 AM
Internal and External Focus of Attention During Bench Press Results in Increased EMG Amplitudes<br>Mathias Kristiansen1, Afsahn Samani1, Nicolas Vuillerme2, Pascal Madeleine1, Ernst A. Hansen1. 1Aalborg University, Aalborg Ø, Denmark. 2University Grenoble-Alpes, Grenoble, France. Email: mrvk@hst.au.dk (No relationships reported)

1423 Board #98 9:00 AM - 10:30 AM
External Mechanical Indices of Resistance Exercise and the O2 Cost<br>Randal Claytor, Eric P. Slattery, 45056. Miami University, Oxford, OH. (Sponsor: Helaine Alessio, FACSM) Email: claytorp@miamioh.edu (No relationships reported)

Free Communication/Poster - Body Composition

Thursday, June 1, 2017, 7:30 AM - 12:30 PM
Room: Hall F

1424 Board #99 9:00 AM - 10:30 AM
Polyphenol Supplementation Attenuates Apoptotic Signaling Following Acute Resistance Exercise in Untrained Males<br>Jeremy R. Townsend1, Jeffrey R. Stout, FACSM2, Adam R. Jajtner3, David D. Church4, Kyle S. Beyer5, Michael B. La Monica5, Joshua J. Riffle6, Tyler W.D. Muddle6, Leonardo P. Oliveira6, Kelli A. Herrlinger6, David H. Falkada7, Jay R. Hoffman, FACSM. 1University of Tennessee Knoxville, Knoxville, TN. 2University of Central Florida, Orlando, FL. 3Kent State University, Kent, OH. 4Kemin Foods L.C., Des Moines, IA. (Sponsor: Jeffrey Stout, FACSM) (No relationships reported)
1425 Board #100 9:00 AM - 10:30 AM
Body Composition Of International Soccer Referees
Cristian Petro1, Gabriele Mascherini1, Carlo Castagna2, Angelo Pizzi1, Pierluigi Collina1, Giorgio Galanti1. 1Sport Medicine Center, Florence, Italy. 2FIFG, Florence, Italy. Email: gabriele.mascherini@unifi.it
(No relationships reported)

1426 Board #101 9:00 AM - 10:30 AM
High-intensity Interval Training Vs. Moderate-intensity Continuous Training For Body Composition. A Systematic Review And Meta-analysis.
Michael A. Wewege, Roanna van den Berg, Rachel E. Ward, Andrew Keech. University of New South Wales, Sydney, Australia. Email: m.wewege@unsw.edu.au
(No relationships reported)

1427 Board #102 9:00 AM - 10:30 AM
Impact of Acute Dietary Manipulations on Dual-Energy X-ray Absorptiometry Estimates of Visceral Adipose Tissue
Jeffrey S. Forsse1, Grant M. Tinsley2, Flor E. Morales Marroquin1, Peter W. Grandjean, FACSM1. 1Baylor University, Waco, TX. 2Texas Tech University, Lubbock, TX. (Sponsor: Peter Grandjean, FACSM) Email: jeff_forsse@baylor.edu
(No relationships reported)

1428 Board #103 9:00 AM - 10:30 AM
Utility of Skinfold Measures and Lifestyle Questionnaires in Prenatal Care
Kidan Kidane, Anna Magee Morris, Katherine H. Ingram. Kennesaw State University, Kennesaw, GA. Email: khingram@kennesaw.edu
(No relationships reported)

1429 Board #104 9:00 AM - 10:30 AM
Change in Body Mass from Kindergarten to 5th Grade as a Predictor for Body Mass in 5th Grade
Alexis Malmkar, Kate Heelan, FACSM. University of Nebraska at Kearney, Kearney, NE.
(No relationships reported)

C-37 Free Communication/Poster - Bone, Bone Mineral Density, and Microarchitecture

1430 Board #105 8:00 AM - 9:30 AM
Local Adaptations of Osteocyte Proteins to Increased and Decreased Mechanical Forces Correlate with Osteoblast Levels
Corinne E. Metzger, Michael J.M. Junior, Jessica E. Brezicha, Harry A. Hogan, Susan A. Bloomfield, FACSM. Texas A&M University, College Station, TX. (Sponsor: Susan A. Bloomfield, FACSM) Email: cmetzger@hlkn.tamu.edu
(No relationships reported)

1431 Board #106 8:00 AM - 9:30 AM
Influence Of 25(OH)D, Parathyroid Hormone And Cytokines On Bone Resorption During Acute Vigorous Running
Aoi Ikedo, Marim Imai, Satoshi Fujita. Ritsumeikan University, shiga, Japan. Email: gr01675a@ed.ritsumei.ac.jp
(No relationships reported)

1432 Board #107 8:00 AM - 9:30 AM
Associations Between Vitamin D and Tibial Density and Trabecular Microarchitecture in Army Infantry Recruits
Julie P. Greeves1, Thomas J. O’Leary2, Jonathan C.Y. Tang2, William D. Fraser3, Neil P. Walsh, FACSM, Samuel J. Oliver4, Laurel M. Wentz4, Rachel M. Izard4. 1HQ Army, UK Ministry of Defence, Andover; United Kingdom. 2HQ Army Recruiting and Training Division, UK Ministry of Defence, Upavon, United Kingdom. 3University of East Anglia, Norwich, United Kingdom. 4Banger University, Bangor, United Kingdom. Email: armymanning-wgcrec-sishoprogmrg@mod.uk
(No relationships reported)

1433 Board #108 8:00 AM - 9:30 AM
Bone-specific Physical Activity Questionnaire (BPAQ) Score Associations with Proximal Femur Geometry from DXA-derived 3D Analysis
Benjamin K. Weeks, Conor Lambart, Arny T. Harding, Steven L. Watson, Sally F. Dzena, Rossana C. Nogueira, Belinda R. Beck, FACSM. Griffith University, Gold Coast, Australia. Email: B.Weeks@griffith.edu.au
(No relationships reported)

1434 Board #109 8:00 AM - 9:30 AM
Skeletal Characteristics of Competitive Female Rowers
Breanne S. Baker, Debra A. Bemben, FACSM. University of Oklahoma, Norman, OK. (Sponsor: Debra Bemben, FACSM) Email: bree.baker@ou.edu
(No relationships reported)

1435 Board #110 8:00 AM - 9:30 AM
Bone Mineral Monitoring with Dual-energy X-ray Absorptiometry (DEXA) in University Female Soccer Players
Ricardo López, Erik Ramírez, Vianey Hernandez, Rosa María Cruz. Universidad Autónoma de Nuevo León, San Nicolas de los Garza, Mexico. Email: ricardo78-82@hotmail.com
(No relationships reported)

1436 Board #111 8:00 AM - 9:30 AM
The Feature of Bone Mineral Density Between High Altitude And Sea Level In Inhabitants
jian liu. university of taipei, taipei city, Taiwan. Email: chien_liu@yahoo.com
(No relationships reported)

1437 Board #112 8:00 AM - 9:30 AM
Bone Quality in Weight and Non-Weight Bearing Sports in Male Collegiate Athletes
Devin Freda, Tess Skoe, Colton Cave, Mitch Wehrlt, Kristen Heumann. Colorado Mesa University, Grand Junction, CO. Email: devinfreda@gmail.com
(No relationships reported)

1438 Board #113 8:00 AM - 9:30 AM
Bone Mineral Density - Is It Lower In Synchronized Swimmers Compared To Competitive Swimmers?
Naama Constantini, FACSM, Shiri Weinberg. The Feature of Bone Mineral Density Between High Altitude And Sea Level In Inhabitants
Tina Zuniga, Ari Zimran. Shaare Zedek Medical Center, Jerusalem, Israel. Email: naamaconst@gmail.com
(No relationships reported)

1439 Board #114 8:00 AM - 9:30 AM
The Effect of Soccer Training on Tibia Bone Properties in Healthy Young Females
Henry Wang1, D. Clark Dickin1, Daniel Chan1, Jonathan Foster1, Julie Hughes2. 1Ball State University, Muncie, IN. 2US Army Research Institute of Environmental Medicine, Natick, MA. Email: hwang2@bsu.edu
(No relationships reported)
American College of Sports Medicine

1440 Board #115 8:00 AM - 9:30 AM
Serum Sclerostin Levels Are Positively Correlated with Bone Mineral Density in Chinese Young Adults
Zhaojing Chen1, Meihua Su1, Yous Zhou1, Breanne Baker1, Samuel Buchanan1, David Ross1, Michael Bemben, FACSM2, Debra Bemben, FACSM3. 1University of Oklahoma, NORMAN, OK. 2Massachusetts General Hospital, Boston, MA. 3Department of Defense Biotechnology High Performance Computing Software Applications Institute, Frederick, MD.
Email: echou@ou.edu
(No relationships reported)

1441 Board #116 Abstract Withdrawn

1442 Board #117 8:00 AM - 9:30 AM
Physical Activity During Youth is Associated with Adult Bone Microarchitecture
Victoria Turkington, Kristin L. Popp, Matthew Scott, Adriana Martinez-Betancourt, Mary L. Boussein. Massachusetts General Hospital, Boston, MA.
Email: vturkington@mgm.harvard.edu
(No relationships reported)

1443 Board #118 8:00 AM - 9:30 AM
Effect Of Low-magnitude Different-frequency Whole-body Vibration On Subchondral
Yan Li1, Pu Wang2, Yushu Hu1. 1Chengdu Sport Institute, ChengDu, China. 2Sichuan University West China Hospital, ChengDu, China.
Email: 1762108071@qq.com
(No relationships reported)

1444 Board #119 8:00 AM - 9:30 AM
Tibial Density and Trabecular Microarchitecture in Army Recruit Stress Fracture Cases and Matched Uninjured Controls
Thomas J. O’Leary1, Rachel M. Izard1, Sarah M. Jackson2, Julie P. Geesey3. 1HQ Army Recruiting and Training Division, UK Ministry of Defence, Upavon, United Kingdom. 2HQ Army, UK Ministry of Defence, Andover, United Kingdom.
Email: thomas.oleary100@mod.uk
(No relationships reported)

1445 Board #120 8:00 AM - 9:30 AM
Vertical Jump Test as a Health-Promotion Screening Tool for Predicting Bone Strength in Young Adults
Maggie M. King1, Steven M. Levy2, Lucas J. Carr3, Kathleen F. Janz, FACSM4. 1University of Minnesota, Minneapolis, MN. 2University of Iowa, Iowa City, IA. 3The University of Iowa, Iowa City, IA. (Sponsor: Dr. Daheia Barr-Anderson, FACSM)
(No relationships reported)

1446 Board #121 8:00 AM - 9:30 AM
RANK Gene Polymorphism Is Associated With Incidence Of Stress Fractures In Japanese Female Endurance Athletes
Ayami Yuma, Shampui Fujie, Natsumi Hasegawa, Naoki Horii, Moe Oshiden, Masataka Uchida, Izumi Tabata, FACSM, Motoyuki Iemitsu. Ritsumeikan University, Kusatsu, Japan. (Sponsor: Izumi Tabata, FACSM)
(No relationships reported)

1447 Board #122 Abstract Withdrawn

1448 Board #123 8:00 AM - 9:30 AM
Measurement of Radial Bone Strength as Related to Common Muscle Function Tests in College Athletes
Andrew T. Denys, Rebekkah J. Reichert, Philip Richardi, Ariana Strickland, Benjamin Ferrari-Church, Vanessa Yingling, FACSM. California State University, East Bay, Hayward, CA.
Email: adenys@horizon.csaeastbay.edu
(No relationships reported)

Final Program  P99

1449 Board #124 8:00 AM - 9:30 AM
Changes In Tibial Bone Microarchitecture Following 8 Weeks Of U.S. Army Basic Combat Training
Julie M. Hughes1, Erin Gaffney-Stromberg2, Katelyn I. Guerriere3, Kathyrn M. Taylor4, Ronald W. Matheny, Jr5, Kristin L. Popp6, James P. McClung1, Chau Xu7, Gunu Unnikrishnan7, Jaques Reifman7, Mary L. Boussein8. 1US Army Research Institute of Environmental Medicine, Natick, MA. 2Massachusetts General Hospital, Boston, MA. (Sponsor: Debra Bemben, FACSM)
Email: julie.m.hughes17.civ@mail.mil
(No relationships reported)

1450 Board #125 8:00 AM - 9:30 AM
Higher Occurrence Rates Of Foot Sesamoids And Accessory Bones In Wrestlers By Ct And 3d-reconstruction
zhiguan Huang, Yu-he Li, Chang-sheng Lu. Guangzhou Sport University, Guangzhou, China.
Email: zhiguan1980@gmail.com
(No relationships reported)

1451 Board #126 8:00 AM - 9:30 AM
Calcium Lost Through Sweat: Is There Evidence of Bone Remodeling Due to Cutaneous Calcium Loss during Bikram Hot Yoga?
Shannon L. Mathis1, Carmela dell J. Watkins2, Gordon G. MacGregor3. 1University of Alabama Huntsville, Huntsville, AL. 2Bikram Hot Yoga Huntsville, Madison, AL.
Email: shannon.mathis@uah.edu
(No relationships reported)

1452 Board #127 8:00 AM - 9:30 AM
Predictors of Bone Mineral Density Among Intercollegiate Female Athletes
Pamela S. Anderson1, Sonya L. Sanderson1. 1Georgia Gwinnett College, Lawrenceville, GA. (Sponsor: Mary Jane De Souza, FACSM)
Email: andersli1@ggc.edu
(No relationships reported)

1453 Board #128 8:00 AM - 9:30 AM
Reduced Lean Mass and Fat Mass Exacerbate Effects of Estrogen Deficiency on Bone
Emily A. Southmayd, Rebecca J. Mallinson, Nancy I. Williams, FACSM, Heather C.M. Allaway, Mary Jane De Souza, FACSM. Penn State University, State College, PA. (Sponsor: Mary Jane De Souza, FACSM)
Email: eas377@psu.edu
(No relationships reported)

1454 Board #129 8:00 AM - 9:30 AM
Association between Bone-Specific Physical Activity Scores and Measures of Areal and Volumetric Bone Mineral Density and Bone Markers in Middle-Aged Premenopausal Women
SoJung Kim1, Michael Bemben, FACSM2, Debra Bemben, FACSM3. 1University of Massachusetts, Lowell, MA. 2University of Oklahoma, Norman, OK. (Sponsor: Debra Bemben, FACSM)
Email: sojung_kim@uml.edu
(No relationships reported)

1455 Board #130 8:00 AM - 9:30 AM
Bone Mechanical Strength Deficits Following a Contusion Spinal Cord Injury in Rats
Dana M. Orzel1, Taylor Bassett2, Cong Chen1, Tyler Turlings2, Christine F. Conover2, Micah Flores1, Fan Ye1, Ean G. Phillips3, Andrea Catter1, Stephen E. Borst1, Joshua F. Yarrow1. 1North Florida South Georgia Veterans Health System, Gainesville, FL. 2University of Florida, Gainesville, FL.
Email: dotzel@ history.edu
(No relationships reported)
| Session | Time | Title | Authors and Affiliations | Email(s) | Notes
|---------|------|-------|--------------------------|-----------|--------
| C-38 | 7:30 AM - 12:30 PM | Free Communication/Poster - Cardiorespiratory Physiology and Rehabilitation | Thursday, June 1, 2017 | | Not provided

| Board #132 | 8:00 AM - 9:30 AM | Race/Ethnicity-related Differences In Bone Mass, Microarchitecture And Strength Among Young Adult Men And Women | Kristin L. Popp, Julie M. Hughes, Adriana Martinez-Betancourt, Matthew Scott, Victoria Torkington, Katelyn I. Guerriere, Chun Xu, Ginu Unnikrishnan, Jaques Reifman, Mary L. Bouxsein | kpopp@mgh.harvard.edu | (No relationships reported)

| Board #133 | 9:00 AM - 10:30 AM | Weekly Effect of Exercise-Based Cardiac Rehabilitation on Perceived Stress and Mood States in Cardiac Patients | Felipe Araya-Ramirez, Jean Carlo Gamboa-Salas, Braulio Sanchez-Urena, Vera Rodriguez-Cambroner, Peter W. Grandjean | Email: felipe.araya@unica.co.cr | (No relationships reported)

| Board #134 | 9:00 AM - 10:30 AM | Performance and Physiological Improvements in Treadmill Walking after 12 Sessions of Phase Two Cardiac Rehabilitation | STEPHANIE GERLACH, Terence Moriarty, Ann L. Gibson | Email: ann.l.gibson@facs.org | (No relationships reported)

| Board #135 | 9:00 AM - 10:30 AM | Impact Of Depression Or Anxiety On Enrollment In Cardiac Rehabilitation In Veterans | Thomas D. Byard, Kelly Allsup, Andrew Althouse, Rebecca Smith, Nicholas Bello, Karen Tarolli, Garrett Keller, James Kostra, John M. Jakicic, FACSM, Daniel E. Forman | Email: tb12@pitt.edu | (No relationships reported)

| Board #136 | 9:00 AM - 10:30 AM | Effect Of Aqua-walking On Cad Risk Factors And Fitness In Older Adults | Kee-chan Joo, Seonson University, Cheongju, Korea | Email: kjc03@gmail.com | (No relationships reported)

| Board #137 | 9:00 AM - 10:30 AM | Facility- and Home-Based Cardiac Rehabilitation Achieve Similar Magnitude of Functional Improvements | Garrett Kellar, Nicholas Bello, Andrew Althouse, Kelly Allsup, Nicole Lemieux, James Kostra, Thomas Byard, Rebecca Smith, Juliet M. Mancino, Jessica Shultz, Karen Tarolli, Gavin Hickey, Ross Arena, FACSM, Daniel E. Forman | Email: ggk3@pitt.edu | (No relationships reported)

| Board #138 | 9:00 AM - 10:30 AM | Anthracycline Chemotherapy and Cardiovascular Function and Fitness in Breast Cancer Patients | Saowalak Siripanya, Napa Parinyanitkul, Hirofumi Tanaka, FACSM, Darooon Saksorn | Email: siripanya07@gmail.com | (No relationships reported)

| Board #139 | 9:00 AM - 10:30 AM | Effects Of Different Types Of Chemotherapy On Cardiopulmonary Function In Patients With Breast Cancer | Ching-Ying Tseng, Hsin-Fu Lin, Chiao-Nan (Joyce) Chen, Yi-Ching Huang, Jui-Chi Lin, Yi-Hang Liao | Email: tseng.ying@pitt.edu | (No relationships reported)

| Board #140 | 9:00 AM - 10:30 AM | Rating of Perceived Exertion As A Tool For Prescribing And Self-regulating High-intensity Interval Exercise In Type 2 Diabetes: A Pilot Study | Bianca Fernandes, Ariane Aparecida Viana, Emmanuel Gomes Ciolac, São Paulo State University – UNESP, Bauru, Brazil | Email: bian.kinhoh22@hotmail.com | (No relationships reported)

| Board #141 | 9:00 AM - 10:30 AM | Blood Pressure Responses To Isometric Exercise; Safety Considerations For Exercise Prescription | Jim Wiles, Katrina A. Taylor, Damion Coleman, Rajan Sharma, Jamie M. O’Driscoll | Email: jim.wiles@canterbury.ac.uk | (No relationships reported)

| Board #142 | 9:00 AM - 10:30 AM | Impaired Critical Speed in Mice with Sicklic Cell Anemia: Implications for Therapeutic Development | Scott K. Ferguson, Kurt Stenmark, Paul W. Buehler, David Irwin |  | (No relationships reported)

| Board #143 | 9:00 AM - 10:30 AM | Algorithm For Predicting Disease Likelihood From Noninvasive Submaximal Cardiopulmonary Exercise Testing | Chul-Ho Kim, James E. Hansen, David Anderson, Dean J. McCarter, Steve Anderson, Bruce D. Johnson, Mayo Clinic, Rochester, MN |  | (No relationships reported)
Proposing A New Method Of Administering The King-devick Test For Concussion Assessment

Nathan D'Amico, Melissa Anderson, RJ Elbin. University of Arkansas, Fayetteville, AR.
Email: nrdamico@email.uark.edu
(No relationships reported)
ACSM May 30 – June 3, 2017
Denver, Colorado

P102 Final Program

1484 Board #159 9:00 AM - 10:30 AM
Comparison Of Concordance Outcomes In College Students
Natalie A. Kramer1, Prakash Jayabalani2, Kelly Iwanaga Becker1, Kristin E. Abbott1. 1Northwestern University, Evanston, IL. 2Rehabilitation Institute of Chicago, Chicago, IL. (Sponsor: Jeffrey Mjannes, FACSJM)
(No relationships reported)

1485 Board #160 9:00 AM - 10:30 AM
Relationship Between Initial Post-concussion Presentation And Health-related Quality Of Life At One Month Post-injury In Pediatric Concussion Patients
Johna K. Register-Mihalik1, O. Josh Bloom1, Janna Fonseca2, Kristen Phillips3, Melissa C. Kay3, Christina B. Vander Vegt4, Julia W. Gallini5, Kevin M. Guskiewicz, FACSJM, Valerie J. De Maio1. 1University of North Carolina at Chapel Hill, Chapel Hill, NC. 2Carolina Family Practice & Sports Medicine, Cary, NC. Email: johnakay@email.unc.edu
(No relationships reported)

1486 Board #161 9:00 AM - 10:30 AM
Lower Neck Strength Among Young Youth Soccer Players Is Associated With An Increased Prevalence Of Concussion
Hugo Paquin, David R. Howell, William P. Meehan III. Boston Children's Hospital, Boston, MA. (Sponsor: Pierre D'Hemecourt, FACSJM)

1487 Board #162 9:00 AM - 10:30 AM
Concussions and Vestibular Changes: Concussion Mechanism and Neurocognitive Performance
Eric E. Hall, FACSJM, Bryce A. Krzenski, Emily Williams, Caroline J. Ketcham. Elon University, Elon, NC. Email: ehall@email.elon.edu
(No relationships reported)

1488 Board #163 9:00 AM - 10:30 AM
Utility of the Vestibular/Ocular Motor Screening (VOMS) Tool During High School Sport Participation
Phillip R. Worts1, Philip Schatz2, Emanuel M. Boutzoukas3, Scott O. Burkhart4. 1Florida State University, Tallahassee, FL. 2Saint Joseph's University, Philadelphia, PA. 3Children's National Medical Center, Washington, DC. 4Tallahassee Orthopedic Clinic, Tallahassee, FL. Email: prw13@my.fsu.edu
Reported Relationships: P.R. Worts: Contracted Research - Including Principle Investigator; Florida State University's Institute of Sports Sciences and Medicine.

C-40 Free Communication/Poster - Epidemiology of Injury and Illness

Thursday, June 1, 2017, 7:30 AM - 12:30 PM
Room: Hall F

1489 Board #164 8:00 AM - 9:30 AM
The Financial Cost of Obesity in Thoracic Trauma
Alexis C. King1, Lewis E. Jacobson2, Jonathan M. Saxe2, Courtney D. Jensen1. 1University of the Pacific, Stockton, CA. 2St. Vincent Hospital, Indianapolis, IN. Email: a_king10@u.pacific.edu
(No relationships reported)

ACSM 64th Annual Meeting

1490 Board #165 8:00 AM - 9:30 AM
The American Experience with an Emerging Adolescent Collision Sport: Rugby-7s
Email: richardma09@gmail.com

1491 Board #166 8:00 AM - 9:30 AM
Interaction Between Household Size And Medication Status In Aged Individuals As It Relates To Fall History
David W. Keeley, Eryn Murphy, Robert Wood. New Mexico State University, Las Cruces, NM. Email: dwk0611@msn.com
(No relationships reported)

1492 Board #167 8:00 AM - 9:30 AM
The Relationship between Experience Level and Age on Perception of Injury Risk in Golf
Patricia A.R Sullivan, Andrea Fradkin, FACSJM. Bloomsburg University of Pennsylvania, Bloomsburg, PA. (Sponsor: Andrea Fradkin, FACSJM)
(No relationships reported)

1493 Board #168 8:00 AM - 9:30 AM
Description of Wrist Fractures in Recreational Snowboarding: Implications for Wrist Guard Design
Graham E. Wagner, George Josten, Masaru Teramoto, Andrew Tyser, Stuart E. Willick, FACSJM. University of Utah, Salt Lake City, UT. (Sponsor: Stuart Willick, FACSJM)
Email: graham.wagner@hsc.utah.edu
(No relationships reported)

1494 Board #169 8:00 AM - 9:30 AM
Irritable Bowel Syndrome and Gastrointestinal Issues in Endurance Athletes: Prevalence and Management Strategies
Lauren B. A. Killian, Soo-Yeon Lee. University of Illinois, Urbana, IL. (No relationships reported)

1495 Board #170 8:00 AM - 9:30 AM
Comparison Of High School Girls' And College Women's Softball Injury Incidence, 2004/05-2013/14
Email: ewaserman@datalyscenter.org
(No relationships reported)
American College of Sports Medicine

Board #171
8:00 AM - 9:30 AM
Prevalence of Low Back Pain of South Korean Baseball Players in Childhood and Adolescence
Daeho HA1, Masahiro Takemura1, Satoshi Nagai2, Wookwang Cheon1, Byungjoo Noh1, Shunpei Miyakawa1. 1University of Tsukuba, Ibaraki, Japan. 2Ibaraki International University, Ibaraki, Japan. 3Keimyung University, Daegu, Korea. Republic of. 4Michigan Technological University, Houghton, MI.

Board #172
8:00 AM - 9:30 AM
Describing the Epidemiology of Golfing Injuries
Andrea Fradkin, FACSM. Bloomsburg University, Bloomsburg, PA.

Board #173
8:00 AM - 9:30 AM
Association between Body Mass Index and Disability in Individuals with Unilateral Anterior Cruciate Ligament Reconstruction
Brian Pirottsionone1, Christopher Kuenze2, Joseph Hart, FACSM3, Charles Thigpen, FACSM4, Adam Lepley5, J Troy Blackburn1, Darin Padua1, Terry Grindstaff5, Hope Davis4, David Bell1. 1University of North Carolina, Chapel Hill, NC. 2Michigan State University, East Lansing, MI. 3University of Virginia, Charlottesville, VA. 4ATT Physical Therapy, Greenville, South Carolina, SC. 5University of Connecticut, Storrs, CT. 6Creighton University, Omaha, NE. 7University of Wisconsin-Madison, Madison, WI. (Sponsor: Joseph M Hart, FACSM)

Board #174
8:00 AM - 9:30 AM
Prevalence Of Injuries During Brazilian Jiujitsu Training
Alex McDonald1, Josh McDonald2, Christopher Wolf3. 1University of Missouri-Columbia, Columbia, MO. 2University of Wisconsin-Madison, Madison, WI. (No relationships reported)

Board #175
8:00 AM - 9:30 AM
Start, Middle Or End: When Do Concussions Occur During Practices And Competitions Among Athletes?

Board #176
8:00 AM - 9:30 AM
U.S. Rugby-7s Injuries in Levels Of Play: A 5-year Epidemiological Prospective Study Of An Emerging Olympic Collision Sport In A Developing Market

Board #177
8:00 AM - 9:30 AM
Epidemiology of Middle School Sports Injuries in the Mid-Atlantic Region Of The United States
Matthew Prebble1, Nelson Cortes2, Amanda Caswell1, Kaitlyn Hallsmith1, Jatin Ambegaonkar2, Zachary Kerr3. 1George Mason University, Manassas, VA. 2University of North Carolina, Chapel Hill, NC.

Board #178
8:00 AM - 9:30 AM
Seasonal Incidence of Game-Related NCAA Football Injuries on Artificial Turf and Natural Grass
Michael C. Meyers, FACSM1, Lindsey D. Schroeder1. 1Idaho State University, Pocatello, ID. 2Eastern Washington University, Spokane, WA.

Board #179
8:00 AM - 9:30 AM
An Epidemiological Injury Profile Of Sub-elite U.S. Rugby-7s (USA Rugby National Club Championships)

Final Program P103

P103
THURSDAY, JUNE 1, 2017
P104 Final Program

1507 Board #182  8:00 AM - 9:30 AM
Age At First Energy Drink Use As a Predictor of College Student High-Risk Driving Behaviors
Conrad L. Woolsey1, Jeff M. Housman2, Ronald D. Williams, Jr.,1 Bert H. Jacobson, FACSM, Thomas E. Sather4, Marion W. Evans, Jr.1 1University of Western States, Portland, OR. 2Texas State University, San Marcos, TX. 3Oklahoma State University, Stillwater, OK. 4Bureau of Medicine and Surgery, Falls Church, VA.
(No relationships reported)

1508 Board #183  8:00 AM - 9:30 AM
A Comparison of Injury Rates In Boys' And Girls' Youth Lacrosse
Shane V. Caswell1, Andrew Lincoln2, Thomas Dompièr3, Zachary Kerr1 1George Mason University, Manassas, VA. 2MeStar Sports Medicine, Baltimore, MD. 3Dalalys Center for Sports Injury Research and Prevention, Inc., Indianapolis, IN. 4University of North Carolina, Chapel Hill, NC.
(No relationships reported)

1509 Board #184  8:00 AM - 9:30 AM
Shoulder Impingement in Soldiers: Descriptive Epidemiology and Common Surgical Procedures
Joseph R. Kardouni, Craig J. McKinnon. U.S. Army Research Institute of Environmental Medicine, Natick, MA.
(No relationships reported)

1510 Board #185  8:00 AM - 9:30 AM
Characterizing Injuries and Participation in High Intensity Functional Training
Katie M. Heinrich1, Sarah J. Cosgrove1, Yuri Feito, FACSM2 1Kansas State University, Manhattan, KS. 2Kennesaw State University, Kennesaw, GA. (Sponsor: Yuri Feito, FACSM)
Email: kmhphd@ksu.edu
(No relationships reported)

1511 Board #186  8:00 AM - 9:30 AM
The Experience Of Low Back Pain In Pre-professional And Professional Dancers: A Longitudinal Study
Christopher TV Swain1, Elizabeth J. Bradshaw1, Douglas G. Whyte1, Christina L. Ekegren2 1Australian Catholic University, Melbourne, Australia. 2Monash University, Melbourne, Australia.
Email: chris.swain@acu.edu.au
(No relationships reported)

1512 Board #187  8:00 AM - 9:30 AM
Injuries Reported During a Pre-participation Examination in Division 1 Collegiate Athletes: A Prospective Cohort Study
James R. Borchers, FACSM, Angela Pedroza, Christopher C. Kaeding, The Ohio State University, Columbus, OH.
Email: james.borchers@osumc.edu
(No relationships reported)

1513 Board #188  8:00 AM - 9:30 AM
Risk Factors For The Development Of Osteoarthritis In Patients With ACL Reconstruction
Joe Hart, FACSM, Brian Werner. University of Virginia, Charlottesville, VA.
(No relationships reported)

1514 Board #189  8:00 AM - 9:30 AM
Number of Previous Knee or Ankle Injuries Is Associated With Poor Physical but not Mental Health
Casey Bruce1, Rachel Evans2, Janet Simon1, Tricia Hubbard-Turner, FACSM, Michael Turner, FACSM4, Phillip A. Gribble1, Abbey C. Thomas1 1UNC Charlotte, Charlotte, NC. 2University of Kentucky, Lexington, KY. 3Ohio University, Athens, OH.
(No relationships reported)

ACSM May 30 – June 3, 2017
Denver, Colorado

ACSM 64th Annual Meeting

1515 Board #190  8:00 AM - 9:30 AM
Head Coaches’ Return To Play Decision Making After Injuries In Semi-professional Team Sport Athletes
Daniel Niederer, Jan Wilke, Lutz Vogt, Winfried Banzer, FACSM. Goethe-University, Frankfurt/Main, Germany. (Sponsor: Winfried Banzer, FACSM)
Email: michael.clark@med.unc.edu
(No relationships reported)

1516 Board #191  8:00 AM - 9:30 AM
Reliability of the Head Impact Exposure Estimate in Former Professional Football Athletes
Michael D. Clark, Leah Cox, Jason Mihalik, Kevin Guskiewicz, FACSM. University of North Carolina at Chapel Hill, Chapel Hill, NC. (Sponsor: Kevin Guskiewicz, FACSM)
Email: michael.clark@med.unc.edu
(No relationships reported)

1517 Board #192  8:00 AM - 9:30 AM
Boxing Exposure in a Representative Cohort of Modern Era Professional Boxers
Barry D. Jordan, 10605, FACSM. Burke Rehabilitation Hospital, White Plains, NY.
Email: bjordan@burke.org
(No relationships reported)

1518 Board #193  8:00 AM - 9:30 AM
Comparison of Online and Onsite Health Education Intervention in Preventing Sports Injury among College Students
Yousqing Shen1, Chengcai X1a, Huangdong Shen2. 1Hubei University of Education, Wuhan, China. 2Wuhan Sports University, Wuhan, China.
Email: future0104@hotmail.com
(No relationships reported)

C-41 Exercise is Medicine®/Poster - EIM - Physical Activity, Training and Lifestyle
Thursday, June 1, 2017, 7:30 AM - 12:30 PM
Room: Hall F

1519 Board #194  9:00 AM - 10:30 AM
Preliminary Results for Test-Retest Reliability of a New Screening Tool: The Get Active Questionnaire
Dawn P. Gill1, Andrea F. Petrella1, Lisa Statkowska1, Mary Duggan2, Robert J. Petrella, FACSM1. 1Western University, London, ON, Canada. 2Canadian Society for Exercise Physiology, Ottawa, ON, Canada. (Sponsor: Robert Petrella, FACSM)
Email: dawn.gill@uwo.ca
(No relationships reported)

1520 Board #195  9:00 AM - 10:30 AM
Development of Trait-Tailored Physical Activity Promotion Messages for Use in Community and Clinic Settings
Kathryn E. Wilson, Paul A. Estabrooks. University of Nebraska Medical Center, Omaha, NE.
Email: wilsonkat88@gmail.com
(No relationships reported)

1521 Board #196  9:00 AM - 10:30 AM
Promoting Physical Activity among African Americans through Policy Level Intervention
Pamela G. Bowen1, Maria Pisu1, Bisakha Sen1, Michelle Y. Martin2 1The University of Alabama at Birmingham, Birmingham, AL. 2University of Tennessee Health Science Center, Memphis, TN.
Email: pbowen@uab.edu
(No relationships reported)

1522 Board #197  9:00 AM - 10:30 AM
Physical Activity Mode and Survival in U.S. Adults
Gabriel A. Benavidez, Peter D. Hart, 59501. 1Ohio University, Athens, OH.
Email: gabe.benavidez72@gmail.com
(No relationships reported)
<table>
<thead>
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<tr>
<td>18</td>
<td>9:00 AM</td>
<td>Physical Activity and Health-Related Quality of Life In Rural U.S. Adults With Chronic Disease</td>
<td>Peter D. Hart, Gabriel A. Benaavidez, Montana State University - Northern, Havre, MT.</td>
<td>(No relationships reported)</td>
<td>email: <a href="mailto:peter.hart@msun.edu">peter.hart@msun.edu</a></td>
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<tr>
<td>19</td>
<td>9:00 AM</td>
<td>Lifestyle And Socio-Demographic Factors Determining The Coronary-Arterial Risk Factors In Brazilian-Free Living Adults</td>
<td>RAFAEL R. FERREIRA, Hugo Kano, Pedro Rodstein, Franz Burini, Roberto C. Burini, FACSM, UNESP Medical School, Botucatu, Brazil. (Sponsor: Roberto Carlos Burini, FACSM)</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:rezzendeferreira.ro@gmail.com">rezzendeferreira.ro@gmail.com</a></td>
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<tr>
<td>20</td>
<td>9:00 AM</td>
<td>Is Grip Strength Related to Metabolic Risk Factors and Cardiorespiratory Fitness?</td>
<td>Zhengzhen Wang, FACSM, Yan Wang, Yu Wang, Xiao-lan Zhao, Qun Zhang, Juan Wang, BEIJING SPORT UNIVERSITY, BEIJING CITY, China. The 108th Hospital of PLA, QUANZHOU CITY, China. Southwest Hospital, Third Military Medical University, CHONGQING CITY, China. Jiangsu Province Hospital, NANJING CITY, China.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:zhengzhenwang1005@hotmail.com">zhengzhenwang1005@hotmail.com</a></td>
</tr>
<tr>
<td>21</td>
<td>9:00 AM</td>
<td>Sedentary Time Adversely Influences the Mental Health of Adolescent Males Residing in a Treatment Facility</td>
<td>Cherie D. Pettitt, Nicole Wiegert, Carlos J. Panahon, Robert W. Pettitt, Minnesota State University Mankato, Mankato, MN. (Sponsor: Robert W. Pettitt, FACSM)</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:cherie.pettitt@minnus.edu">cherie.pettitt@minnus.edu</a></td>
</tr>
<tr>
<td>22</td>
<td>9:00 AM</td>
<td>Effect of High Intensity Intermittent Games-Based Activity on Adolescent Cardio-Metabolic Health</td>
<td>Karah J. Dring, Simon B. Cooper, Maria L. Nute, John G. Morris, Caroline Sunderland, Gemma Foulds, Graham Pockley, Mary E. Nevill, Nottingham Trent University, Nottingham, United Kingdom.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:karah.dring@ntu.ac.uk">karah.dring@ntu.ac.uk</a></td>
</tr>
<tr>
<td>23</td>
<td>9:00 AM</td>
<td>Associations of Aerobic and Strength Exercise with Clinical Laboratory Test Values</td>
<td>Maren S. Fragala, Caixia Bi, Michael Chaump, Harvey W. Kaufman, Martin H. Kroll, Quest Diagnostics, Madison, NJ.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:maren.s.fragala@questdiagnostics.com">maren.s.fragala@questdiagnostics.com</a></td>
</tr>
<tr>
<td>24</td>
<td>9:00 AM</td>
<td>The Effect Of Acute Muscular Exercise and Training Status On Hepatorenal Functions</td>
<td>Ibrahim MUSA, Kogi State University, Anyigba, Nigeria.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:ilrophis@yahoo.com">ilrophis@yahoo.com</a></td>
</tr>
<tr>
<td>25</td>
<td>9:00 AM</td>
<td>Effect Of Exercise On Patients With Concussion</td>
<td>Justin Stumph, Julie Young, Honggang Yin, Ginger Yang, Anastasia Fischer, FACSM, Ohio University Heritage College of Osteopathic Medicine, Dublin, OH. Nationwide Children’s Hospital, Columbus, OH.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:j984513@ohio.edu">j984513@ohio.edu</a></td>
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**Thursday, June 1, 2017**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
<th>Email/Notes</th>
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</thead>
<tbody>
<tr>
<td>206</td>
<td>9:00 AM</td>
<td>Mechanisms for Balance Improvement in Tai Chi Intervention Trials: A Systematic Review</td>
<td>Holly Lewis, Yin Wu, Linda S. Pescatello, FACSM, University of Connecticut, Mansfield, CT. (Sponsor: Linda S. Pescatello, FACSM)</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:holly.lewis@uconn.edu">holly.lewis@uconn.edu</a></td>
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<tr>
<td>207</td>
<td>9:00 AM</td>
<td>Short-term Effectiveness Of Home Based Exercise To Change Lifestyle In Not Communicable Disease</td>
<td>Gabriele Mascherini, Chiara Giannelli, Giulia Ghelarducci, Sonia Dei, Innocenti, Petri Cristiani, Giorgio Galanti, University of Florence, Florence, Italy, Sport Medicine Center, Florence, Italy.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:gabriele.mascherini@unifi.it">gabriele.mascherini@unifi.it</a></td>
</tr>
<tr>
<td>208</td>
<td>9:00 AM</td>
<td>Implementation of a Veteran Group-Based Aquatic Program Using an Individualized Varied Intensity Protocol</td>
<td>Phillip G. Reynolds, Erek D. Biddel, Patrick T. Conway, Douglas J. Costello, Teresa L. Koppi, Miriam C. Morey, FACSM, Canandaigua VA Medical Center, Canandaigua, NY, Durham VA Medical Center, Durham, NC.</td>
<td>(No relationships reported)</td>
<td></td>
</tr>
<tr>
<td>209</td>
<td>9:00 AM</td>
<td>Strength Training In Patients With Schizophrenia: Effects On Muscle Force Generating Capacity</td>
<td>Mona Nygard, Mathias F. Brobakken, Ismail Cüneyt Güzyüz, Gunnar Morken, Einar Vedul-Kjelsås, Eivind Wang, Jorn Heggelund, The Norwegian University of Science and Technology, Trondheim, Norway. St. Olav’s University Hospital, Trondheim, Norway.</td>
<td>(No relationships reported)</td>
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<tr>
<td>210</td>
<td>9:00 AM</td>
<td>Exercise As An Augmentation To Antidepressant Treatment For Depression: Results From A 12-week Pilot Intervention Study</td>
<td>Swathi Gajra, George Grove, Howard Aizenstein, Charles F. Reynolds, III, Kirk I. Erickson, University of Pittsburgh, Pittsburgh, PA, University of Pittsburgh Medical Center, Pittsburgh, PA.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:swl24@pitt.edu">swl24@pitt.edu</a></td>
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<tr>
<td>211</td>
<td>9:00 AM</td>
<td>Cardiovascular Disease Risk Profile in Patients with Schizophrenia</td>
<td>Mathias F. Brobakken, Mona Nygaard, Ismail Cüneyt Güzyüz, Gunnar Morken, Eivind Wang, Jorn Heggelund, Einar Vedul-Kjelsås, Norwegian University of Science and Technology, Trondheim, Norway. St. Olav’s University Hospital, Trondheim, Norway.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:mathias.f.brobakken@stnmu.no">mathias.f.brobakken@stnmu.no</a></td>
</tr>
<tr>
<td>212</td>
<td>9:00 AM</td>
<td>Moderators Of Exercise Training Effects On Depressive Symptoms In Multiple Sclerosis: A Meta-regression Analysis</td>
<td>Matthew P. Herring, Karl Fleming, Sara Hayes, Robert W. Motl, Susan Coote, University of Limerick, Limerick, Ireland. University of Alabama at Birmingham, Birmingham, AL.</td>
<td>(No relationships reported)</td>
<td>Email: <a href="mailto:matthew.herring@uab.edu">matthew.herring@uab.edu</a></td>
</tr>
</tbody>
</table>
C-43 Free Communication/Poster - Fat Metabolism and Exercise

Thursday, June 1, 2017, 7:30 AM - 12:30 PM
Room: Hall F

1544 Board #219 8:00 AM - 9:30 AM
Fat Oxidation and Aerobic Fitness in Postmenopausal Women: Comparing an Exercise Intervention to Long-Term Exercise
Andrew W. Froehle1, Margaret J. Schoeninger2, Susan R. Hopkins3. 1Wright State University, Dayton, OH. 2University of California, San Diego, San Diego, CA. 3University of California, San Diego, School of Medicine, San Diego, CA. (Sponsor: Drew Pringle, FACSM)
Email: andrew.froehle@wright.edu
(No relationships reported)

1545 Board #220 8:00 AM - 9:30 AM
Change in Maximal Fat Oxidation in Individuals in Response to Different Regimes of High Intensity Interval Training (HIIT)
Amy Clark1, Ross M. Edmonds2, Rachael Gallant2, Leesa King3, Gina M. Ordlie1, Brendyn Heath1, Matthew Montell1, Jason Bandong1, Todd A. Astorino1. 1California State University San Marcos, San Marcos, CA. 2Physical Therapy, SUNY-Stony Brook, Stony Brook, NY. 3University of Southern Indiana, Evansville, IN.
Email: clark170@cougars.csusm.edu
(No relationships reported)

1546 Board #221 8:00 AM - 9:30 AM
Effects of Exercise on FGF-21 Pathway Functions in Hepatic Lipid Metabolism
Liang Li, Xingya Yang, Guoliang Fang, Pengfei Li, Lianshi Feng. China Institute of Sport Science, Beijing, China. (Sponsor: Stephen H.S. Wong, FACSM)
Email: liliang@ciss.cn
(No relationships reported)

1547 Board #222 8:00 AM - 9:30 AM
Effects of Isoflavone and Exercise on Regulation of Energy Homeostasis in Ovariectomized Female Rats
Wenya Zheng, German Sport University Cologne, Cologne, Germany.
(No relationships reported)

1548 Board #223 8:00 AM - 9:30 AM
Effects of Endurance Exercise and Ramapycin on Hepatic Energy Metabolism Gene Expression in Rats Fed a High-Fat Diet
Bagen Liao, Yanfei Li. Guangzhou Sport University, Guangzhou, China. 
Email: Bagenh2015@163.com
(No relationships reported)

1549 Board #224 8:00 AM - 9:30 AM
Effects of Hypoxic Living and Exercise Training on the miR-27/PPARγ Pathway in Obese Rat Liver
yingli lu, lei zhu, Lianshi Feng. China Institute of Sport Science, Beijing, China.
Email: 46878030@qq.com
(No relationships reported)

1550 Board #225 8:00 AM - 9:30 AM
“It Takes Two To Tango”, Exercise Modifies Skeletal Muscle Mitochondria And Lipid Droplets Closeness
Sonia Conde Alonso, Nicholas T. Broskey, Francesca Amati, FACSM, University of Lausanne, Lausanne, Switzerland.
(No relationships reported)

1551 Board #226 8:00 AM - 9:30 AM
Metabolic Flexibility In Lean Children: Effect Of Parental BMI
Brandon Dykstra, Mary Hidde, Jennifer Erichsen, Anthony D. Mahon. Ball State University, Muncie, IN.
(No relationships reported)
### Free Communication/Poster - Functional Strength and Fitness

**Thursday, June 1, 2017, 7:30 AM - 12:30 PM**  
**Room: Hall F**

<table>
<thead>
<tr>
<th>Board #</th>
<th>Title</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>#227</td>
<td>C-44 - Free Communication/Poster: Functional Strength and Fitness</td>
<td>8:00 AM - 9:30 AM</td>
</tr>
<tr>
<td>#234</td>
<td>Board #234: Introduction Of A High-fat/sucrose Diet Modulates Voluntary Wheel Running Activity In Adult Female Rats</td>
<td>8:00 AM - 9:30 AM</td>
</tr>
<tr>
<td>#235</td>
<td>Board #235: Effects Of High-Fat Diet and Exercise on Endoplasmic Reticulum Stress Mediated Apoptosis in Rat Liver</td>
<td>8:00 AM - 9:30 AM</td>
</tr>
<tr>
<td>#236</td>
<td>Board #236: Core Strength as a Predictor of Performance During Three Functional Movement Screens</td>
<td>8:00 AM - 9:30 AM</td>
</tr>
<tr>
<td>#237</td>
<td>Board #237: Functional Movement Screen Performance on Baseball Players of Different Positions</td>
<td>8:00 AM - 9:30 AM</td>
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<tr>
<td>#238</td>
<td>Board #238: Functional Movement Characteristics of US Navy Explosive Ordinance Disposal Technicians</td>
<td>8:00 AM - 9:30 AM</td>
</tr>
<tr>
<td>#239</td>
<td>Board #239: Effectiveness of a Functional Strength Training Program on Fitness Performance among Boys Aged 13-14 Years</td>
<td>8:00 AM - 9:30 AM</td>
</tr>
<tr>
<td>#240</td>
<td>Board #240: Assessing the Relationship between Vertical Jump Performance and FMS in Young Adult Males</td>
<td>8:00 AM - 9:30 AM</td>
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</tbody>
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**American College of Sports Medicine**

[www.acsm.org](http://www.acsm.org)

**Final Program**

**P107**

**Tuesday, June 6, 2017**

**Wednesday, June 7, 2017**

**Thursday, June 8, 2017**

**Friday, June 9, 2017**

**Saturday, June 10, 2017**

**Sunday, June 11, 2017**

**THURSDAY, JUNE 1, 2017**

**www.acsm.org**
Board #241  8:00 AM - 9:30 AM
Nicholas M. Beltz1, Neil McMillan2, Garrett Stadler1, Marquell J. Johnson1, Jeffrey M. Janot1. 1University of New Mexico, Albuquerque, NM. 2University of Wisconsin-Eau Claire, Eau Claire, WI. (No relationships reported)

Board #242  8:00 AM - 9:30 AM
Relationship Between Anthropometrics, Body Composition, and Functional Movement Quality
Donald Diboll, Emily Marr, Daniel Seymour, Ryan Garcia. Fresno Pacific University, Fresno, CA. (No relationships reported)

Board #243  8:00 AM - 9:30 AM
The Impact of Past Athletic Experience on Functional Movement Scores in Division III Male Soccer Players
Craig Triplet, DPT, CSCS, Dan Jensen, DPT, Corey Selland, PhD, Naomi Jacobson, Nicholas Wolfe. Black Hills State University, Spearfish, SD. (Sponsor: Matthew Vukovich, PhD, FACSM) (No relationships reported)

Board #244  8:00 AM - 9:30 AM
Efficacy of a Task-Specific Periodized Resistance Training Program on Functional Movement Screening in ROTC Cadets
Ludmila M. Cosio-Lima, John D. Wallop, Lauren E. Adlof, Marissa Straughn, Amy Crawley. University of West Florida, Pensacola, FL. (No relationships reported)

Board #245  8:00 AM - 9:30 AM
Validation of a Modified Functional Movement Screen Test for Division III Male Soccer Players
Jide Ifonlaja, Augsburg College, Minneapolis, MN. (Sponsor: Dr. Blegen, FACSM) Email: ifonlaj@augsburg.edu (No relationships reported)

Board #246  8:00 AM - 9:30 AM
The Effects of Brief High Intensity Intermittent Functional Training on Body Composition and Anaerobic Fitness
Masoud Moghaddam. Oklahoma State University, Stillwater, OK. Email: masoud.moghaddam@oskstate.edu (No relationships reported)

Board #247  8:00 AM - 9:30 AM
Modified Functional Movement Screen as a Predictor of Knee Valgus in Male Soccer Players
Darby Lindgren1, Stuart Borne2, Ana B. Freire Ribeiro1. 1Augsburg College, Minneapolis, MN. 2University of St. Thomas, Saint Paul, MN. (Sponsor: Mark Blegen, FACSM) Email: lindgren@augsburg.edu (No relationships reported)

Board #248  8:00 AM - 9:30 AM
Functional Movement and Personal Fitness Training in a Community College Setting
Tinker D. Murray, FACSM1, Gene Power2, Lisa Roslanova1, James Eldridge1. 1Texas State University, San Marcos, TX. 2Del Mar College, Corpus Christi, TX. 3University of Texas at the Permian Basin, Odessa, TX. 4University of Texas at the Permian Basin, Odessa, TX. Email: tm05@txstate.edu (No relationships reported)

Board #249  9:00 AM - 10:30 AM
Effectiveness of a Mobile Cooling Unit on Perceptual Responses During Preseason Collegiate Female Soccer Practices
Rebecca M. Lopez, Byron Moran, Candie Ashley, Amanda J. Tritsch, Karan Shukla, Eric Coris. University of South Florida, Tampa, FL. (Sponsor: Douglas J. Casa, FACSM) Email: rlopez@health.usf.edu (No relationships reported)

Board #250  9:00 AM - 10:30 AM
Novel Cooling Device Enhances Autonomic Nervous System Responses Following Live Fire Training
Rohan C. Edmonds, Patricia C. Fehling, FACSM, Skidmore College, Saratoga Springs, NY. (Sponsor: Patricia Fehling, FACSM) (No relationships reported)

Board #251  9:00 AM - 10:30 AM
Hydration Provides No Thermo-Physiological or Cognitive Motor Skill Improvement during Passive Hyperthermia and Subsequent Cooling
Ross A. Sherman, Trevor M. Rigney, Benjamin T. Leppek, Erin E. Kishner, Teresa H. Swastek, Holly L. Johnson. Grand Valley State University, Allendale, MI. (Sponsor: Stephen C. Glass, FACSM) Email: sherman@gvsu.edu (No relationships reported)

Board #252  9:00 AM - 10:30 AM
Importance Of Sample Volume To The Measurement And Interpretation Of Plasma Osmolality
Samuel N. Cheuvront, FACSM, Adam J. Luippold, Katherine M. Mitchell, Robert W. Kenefick, FACSM, USARIEM, Natick, MA. (No relationships reported)

Board #253  9:00 AM - 10:30 AM
Assessment of the Efficacy of Military Training Fluid Intake Guidance in a Variety of Conditions
Adam Luippold, Nisha Charkoudian, FACSM, Robert Kenefick, FACSM, Scott Montain, FACSM, Samuel Cheuvront, FACSM, United States Army Research Institute of Environmental Medicine, Natick, MA. (Sponsor: Samuel Cheuvront, FACSM) (No relationships reported)

Board #254  9:00 AM - 10:30 AM
Considerations For Using Spot Usg To Detect Inadequate Between Running Bout Fluid Intake Volume
Eric K. O’Neal1, Brett A. Davis1. 1University of North Alabama, Florence, AL. 2Kentucky Wesleyan College, Owensboro, KY. (Sponsor: James Matthew Green, FACSM) Email: coneal1@una.edu (No relationships reported)

Board #255  9:00 AM - 10:30 AM
Fluid Intake During Exercise in Tropical Climate in Young Athletes with Pre-Exercise Euvhydration or Hypohydration
Enrique U. Perez, José R. Quiñones, Anita M. Rivera-Brown, FACSM, University of Puerto Rico School of Medicine, San Juan, Puerto Rico. Email: enrique.perez1@upr.edu (No relationships reported)

Board #256  9:00 AM - 10:30 AM
Does Oral Fluid Intake Following Dehydration Influence Subsequent Athletic Performance? A Systematic Review and Meta-Analysis
Danielle McCartney, Ben Desbrow, Chris Irwin. Griffith University, Gold Coast, Australia. (Sponsor: Prof. Louise Burke, FACSM) Email: danielle mccartney@griffithuni.edu.au (No relationships reported)
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<thead>
<tr>
<th>Session Title</th>
<th>Time</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>Reduced Cardiorespiratory Fitness Causes Heat Tolerance Test Failures</td>
<td>9:00 AM - 10:30 AM</td>
<td>Douglas M. Jones, Matthew P. Mandel, Carina M. Puatu, Kaitlyn Rostomily, Christina K. Cooper, Dale S. Bergquist-Turori, Michael J. Buono, FACSM, Jay H. Heaney, Naval Health Research Center, San Diego, CA. San Diego State University, San Diego, CA. (Sponsor: Michael Buono, FACSM)</td>
</tr>
<tr>
<td>Thermoneutral Exercise Equates With End of Trial Heat Rate During Exercise in the Heat</td>
<td>9:00 AM - 10:30 AM</td>
<td>Matthew Mandel, Douglas Jones, Carina Pauzt, Kaitlyn Rostomily, Christina Cooper, Dale Bergquist-Turori, Michael Buono, FACSM, Jay Heaney, Naval Health Research Center, San Diego, CA. San Diego State University, San Diego, CA. (Sponsor: Michael Buono, FACSM)</td>
</tr>
<tr>
<td>Accuracy Of ECTemp Models In Predicting Core Temperature And Circadian Rhythm Indicators From Heart Rate</td>
<td>9:00 AM - 10:30 AM</td>
<td>David P. Looney, Mark J. Buller, Alexander P. Welles, Jayme L. Leger, Michelle Stevens, Andrei V. Gribok, Reed W. Hoyt, William V. Rumpf, US Army Institute of Environmental Medicine, Natick, MA. United States Department of Agriculture, Beltsville, MD.</td>
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<tr>
<td>Weighted Heat Stress Score as a Predictor of Rectal Temperature in a Warm Weather Race</td>
<td>9:00 AM - 10:30 AM</td>
<td>Rachel K. Katch, Yuri Hosokawa, Rebecca L. Steams, Robert A. Huggins, Douglas J. Casa, FACSM, University of Connecticut, Storrs, CT. (Sponsor: Dr. Douglas Casa, FACSM)</td>
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<tr>
<td>Dietary Curcumin Supplementation Reduces Gastrointestinal Barrier Permeability During Exertional Heat Stress</td>
<td>9:00 AM - 10:30 AM</td>
<td>Amanda C. Szymanski, Meghan G. Patton, Lacey M. Gould, Carmen Waldron, Matthew R. Kuenenn. High Point University, High Point, NC.</td>
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<tr>
<td>Curcumin Improves Systemic Responses to Exertional Hyperthermia but Doesn’t Alter Protein Expression in Circulating Leukocytes</td>
<td>9:00 AM - 10:30 AM</td>
<td>Alexandra M. Hamilton, Mandy C. Szymanski, Meghan G. Patton, Lacey M. Gould, Matthew R. Kuenenn. High Point University, High Point, NC.</td>
</tr>
<tr>
<td>Impact of Heat Stress and Prolonged Exercise on the Oral Microbiome in Adults</td>
<td>9:00 AM - 10:30 AM</td>
<td>Brian R. Kupchak, Jimmy W. Scott, Jakob L. Vingren, Elaine C. Lee, Lawrence E. Armstrong, FACSM, Patricia A. Deuster, FACSM, USUHS, Bethesda, MD. Tufts University, Boston, MA. University of North Texas, Denton, TX. University of Connecticut, Storrs, CT. (Sponsor: Patricia Deuster, FACSM)</td>
</tr>
<tr>
<td>Effects Of Lower-body Versus Upper-body Resistance Exercise On Lower-body Intramuscular Temperature</td>
<td>9:00 AM - 10:30 AM</td>
<td>Anthony B. Ciccone, Cory R. Schlab, David D. Watson, Victoria L. Porter, Joseph P. Weir, FACSM, University of Kansas, Lawrence, KS. (Sponsor: Dr. Joseph Weir, FACSM)</td>
</tr>
<tr>
<td>Repeated Thermal Stress Sensitizes C2C12 Myotubes To Subsequent LPS Exposure</td>
<td>9:00 AM - 10:30 AM</td>
<td>Meghan G. Patton, Mandy C. Szymanski, Lacey M. Gould, Carmen J. Waldron, Roger A. Vaughan, Matthew R. Kuenenn. High Point University, High Point, NC. (Sponsor: Patricia Deuster, FACSM)</td>
</tr>
<tr>
<td>Human Skeletal Muscle Myogenic and Proteolytic Response To Environmental Temperature</td>
<td>9:00 AM - 10:30 AM</td>
<td>Christina Angeli, Roksana Zak, Robert Shute, Dustin Silvka, FACSM, University of Nebraska at Omaha, Omaha, NE. (Sponsor: Dr. Dustin Silvka, FACSM)</td>
</tr>
<tr>
<td>Changes In Parameters Of Immunological And Oxidative Status In Elite Athletes During Winter</td>
<td>8:00 AM - 9:30 AM</td>
<td>Ivan Stankovic, Danica Michalikovska, Rajna Minic, Jelena Kotur-Stevuljevic, Milica Miljkovic, Marija Kostic-Vucevic, Nenad Dikic, Marija Andjelkovic, Ivana Baralic, Nevena Ivanovic, Brizita Djordjevic, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia. First Medical Faculty, Charles University, Prague, Czech Republic. Institute of Virology, Vaccines and Sera, Torlak, Belgrade, Serbia. Sports Medicine Association of Serbia, Belgrade, Serbia. Zvezdara University Medical Center, Belgrade, Serbia.</td>
</tr>
<tr>
<td>StgA and Upper Respiratory Syndrome During a College Cross Country Season</td>
<td>8:00 AM - 9:30 AM</td>
<td>Marianne Fahlman, FACSM, Hermann J. Engels, FACSM, Heather L. Hall, Wayne State Univ., Detroit, MI. Elmhurst College, Elmhurst, IL.</td>
</tr>
</tbody>
</table>

**C-46 Free Communication/Poster - Immunology I**

- **Thursday, June 1, 2017, 7:30 AM - 12:30 PM**
- **Room:** Hall F

- **Board #280** 8:00 AM - 9:30 AM
  - **Impact of Heat Stress and Prolonged Exercise on the Oral Microbiome in Adults**
    - Brian R. Kupchak, Jimmy W. Scott, Jakob L. Vingren, Elaine C. Lee, Lawrence E. Armstrong, FACSM, Patricia A. Deuster, FACSM, USUHS, Bethesda, MD. Tufts University, Boston, MA. University of North Texas, Denton, TX. University of Connecticut, Storrs, CT. (Sponsor: Patricia Deuster, FACSM)
  - Email: brian.kupchak@gmail.com

- **Board #281** 9:00 AM - 10:30 AM
  - **Effects Of Lower-body Versus Upper-body Resistance Exercise On Lower-body Intramuscular Temperature**
    - Anthony B. Ciccone, Cory R. Schlab, David D. Watson, Victoria L. Porter, Joseph P. Weir, FACSM, University of Kansas, Lawrence, KS. (Sponsor: Dr. Joseph Weir, FACSM)
  - Email: acicone@ku.edu

- **Board #282** 9:00 AM - 10:30 AM
  - **Deep Tissue Heating Increases Mitochondrial Respiratory Capacity of Human Skeletal Muscle**
    - Paul S. Hafen, Chad R. Hancock, Robert D. Hyldahl, Brigham Young University, Provo, UT.
    - Email: paul.hafen@byu.net

- **Board #283** 9:00 AM - 10:30 AM
  - **Repeated Thermal Stress Sensitizes C2C12 Myotubes To Subsequent LPS Exposure**
    - Meghan G. Patton, Mandy C. Szymanski, Lacey M. Gould, Carmen J. Waldron, Roger A. Vaughan, Matthew R. Kuenenn. High Point University, High Point, NC. (Sponsor: Patricia Deuster, FACSM)
  - Email: m.fahlman@wayne.edu

- **Board #284** 9:00 AM - 10:30 AM
  - **Human Skeletal Muscle Myogenic and Proteolytic Response To Environmental Temperature**
    - Christina Angeli, Roksana Zak, Robert Shute, Dustin Silvka, FACSM, University of Nebraska at Omaha, Omaha, NE. (Sponsor: Dr. Dustin Silvka, FACSM)
  - Email: istank2003@yahoo.com

- **Board #285** 8:00 AM - 9:30 AM
  - **Changes In Parameters Of Immunological And Oxidative Status In Elite Athletes During Winter**
    - Ivan Stankovic, Danica Michalikovska, Rajna Minic, Jelena Kotur-Stevuljevic, Milica Miljkovic, Marija Kostic-Vucevic, Nenad Dikic, Marija Andjelkovic, Ivana Baralic, Nevena Ivanovic, Brizita Djordjevic, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia. First Medical Faculty, Charles University, Prague, Czech Republic. Institute of Virology, Vaccines and Sera, Torlak, Belgrade, Serbia. Sports Medicine Association of Serbia, Belgrade, Serbia. Zvezdara University Medical Center, Belgrade, Serbia.
    - Email: istank2003@yahoo.com

- **Board #286** 8:00 AM - 9:30 AM
  - **StgA and Upper Respiratory Syndrome During a College Cross Country Season**
    - Marianne Fahlman, FACSM, Hermann J. Engels, FACSM, Heather L. Hall, Wayne State Univ., Detroit, MI. Elmhurst College, Elmhurst, IL.
    - Email: m.fahlman@wayne.edu
American College of Sports Medicine

Board #287 8:00 AM - 9:30 AM
Il-6 Linkage To Exercise-induced Shifts In Lipid-related Metabolites: A Metabolomics Analysis
David C. Nieman, 28081, FACSM,1 Wei Sha1, Kirk L. Papan2. 1Appalachian State Univ, Knaus, NC. 2University of North Carolina at Charlotte, Knaus, NC. 3Metabolon, Inc., Durham, NC.
Email: niemandc@appstate.edu
(No relationships reported)

Board #288 8:00 AM - 9:30 AM
Apoptosis Of Human Peripheral Blood Mononuclear Cells Following Maximal Aerobic Exercise In Obesity
Chun-Jung Huang, FACSM,1 Aaron L. Shusher2, Peter J. Ferrandi2, Michael Whitehurst, FACSM. 1Florida Atlantic University, Boca Raton, FL. 2Virginia Commonwealth University, Richmond, VA.
(No relationships reported)

Board #289 8:00 AM - 9:30 AM
Effect of Low Level Laser on Nasal Mucosa Immunity of Rats with Six-week Incremental Exercise
Fei Qin1, Yunan Hu1, Xuaming Hao2, Songtao Wang1, Yanan Dong2, Chao Li3, 1Jinan University, Jinan, China. 2China Normal University, Guangzhou, China. 3China Normal University, Guangzhou, China. 4China institute of sport science, Beijing, China.
Email: qf_8707@163.com
(No relationships reported)

Board #290 8:00 AM - 9:30 AM
Brief Exercise Enhances NK Cell Killing Activity in Children Who Survived Acute Lymphoblastic Leukemia (ALL)
Fadia Haddad1, Leonard S. Sender2, Martin Perlsteyn1, Dan M. Cooper3, Frank P. Zaldivar4, Ronen Bar-Yoseph1, Shlomit Radom-Aziki1. 1University of California, Irvine, Irvine, CA. 2University of Illinois at Urbana-Champaign, Urbana, IL. 3Florida Atlantic University, Boca Raton, FL. 4Oregon Health and Science University, Portland, OR.
(No relationships reported)

Board #291 8:00 AM - 9:30 AM
Acute Exercise Alters Cell Populations Within Lymph Nodes Draining Exercising Muscle
Jessica Alley, Ross Darling, Matthew Jefferson, Danielle Wagner-Muhiz, Ruby Valentine, Michael J. Wannemuehler, Marian Kohut. Iowa State University, Ames, IA. (Sponsor: Rick Sharp, FACSM)
Email: alleyj@iastate.edu
(No relationships reported)

Board #292 8:00 AM - 9:30 AM
Progenitor Cell Mobilization Following a Half-Marathon in Elite Wheelchair Athletes
Michael De Lisio1, Grace M. Niemiro1, Thomas Edwards2, J.P. Barfield3, Joseph W. Beals3, Elizabeth Broad4, Robert W. Motl5, Laura Newsom6, Nicholas A. Burd7, Lara A. Pfaltz8. 1University of Ottawa, Ottawa, ON, Canada. 2University of Illinois at Urbana-Champaign, Urbana, IL. 3Radford University, Radford, VA. 4U.S. Paralympics, Colorado Springs, CO. 5University of Alabama-Birmingham, Birmingham, AL.
Email: mdelisio@uottawa.ca
(No relationships reported)

Board #293 8:00 AM - 9:30 AM
Military Recruits Who Typically Sleep <6 Hours Miss Training Due To Upper Respiratory Infection
Laurel M. Wentz1, Mark D. Ward1, Claire Potter1, Xin Hui Aw1, Samuel J. Oliver1, Alexander T. Carswell1, Daniel S. Kashii1, Sarah Jackson1, Rachel M. Izard1, Julie P. Greesves1, Neil P. Walsh, FACSM. 1Bangor University, Bangor, United Kingdom. 2Army HQ, Andover, United Kingdom. 3HQ Army Recruiting and Training Division, Upavon, United Kingdom. (Sponsor: Neil P. Walsh, FACSM)
Email: lwentz@bangor.ac.uk
(No relationships reported)

Board #294 8:00 AM - 9:30 AM
Exploring the Mechanisms Underlying Exercise-Induced Changes in Natural Killer Cell Cytotoxicity
Priti Gupta, Austin Bigley, Emily LaVoy, University of Houston, Houston, TX.
Email: tanug3110@gmail.com
(No relationships reported)
### Board #301
9:00 AM - 10:30 AM
The Effects Of A Heavy Resistance Warm-up On Sprint Speed: A Post Activation Potentiation Study
Abigail Larson, FACSM, Brent Springall, Mark DeBeliso, FACSM. 
Southern Utah University, Cedar City, UT. (No relationships reported)

### Board #302
9:00 AM - 10:30 AM
Effectiveness of Neuromuscular Electrical Stimulation During Rest and Exercise
Hollie Champion1, Susanna Ek1, Rolf Frazier1, Anna Kinslow1, Caroline McClain1, Tiago Barreira1, Wayland Tsch1. 1University of North Carolina Wilmington, Wilmington, NC; 2Syracuse University, Syracuse, NY. (Sponsor: Robert Boyce, FACSM) (No relationships reported)

### Board #303
9:00 AM - 10:30 AM
Effect of Energy Beverage Consumption on Muscle Peak Power and Peak Velocity
Bert H. Jacobson, FACSM. Oklahoma State University, Stillwater, OK. Email: bert.jacobson@okstate.edu (No relationships reported)

### Board #304
9:00 AM - 10:30 AM
Muscle Activation During Variations of the Short Arc Quadriceps Exercise: An Electromyographic Study
Michael C. Rabel, Julie Silvestri, Sarah Radwandi, Megan O’Brien, Mathew Hanan, Sheriff Dosoama. University of Maryland Eastern Shore, Princess Anne, MD. (No relationships reported)

### Board #305
9:00 AM - 10:30 AM
Associations of Hip Extension Torque with Muscle Size of Hip Extensors and Intra-abdominal Pressure
Kota Tayashiki, Kosuke Hirata, Kiraku Ishida, Hiroaki Kanchisa, Naokazu Miyamoto, National Institute of Fitness and Sports in Kanoya, Kanoya, Japan. (No relationships reported)

### Board #306
9:00 AM - 10:30 AM
Peak Muscle Activity across Four Sets to Volitional Fatigue between Rest-Pause and Traditional Bench Press.
John A. Korak1, Max R. Paquette2, John M. Coons1. 1Middle Tennessee State University, Murfreesboro, TN; 2University of Memphis, Memphis, TN. (Sponsor: Don Morgan, FACSM) Email: jak5e@mtmail.mtsu.edu (No relationships reported)

### Board #307
9:00 AM - 10:30 AM
Electromyographic Analysis of Left and Right Side Gluteus Medius in Unilateral and Bilateral Bodyweight Exercises
M Charlotte Olsson, Lina Bernhardsson, Ann Bromander. Halmstad University, 301 18 Halmstad, Sweden. (No relationships reported)

### Board #308
9:00 AM - 10:30 AM
Influence of Gastrocnemius Muscle Length on Overhead Squat Movement Compensations Among Active-Duty Firefighters
David J. Cornell, Kyle T. Ebersole. University of Wisconsin - Milwaukee, Milwaukee, WI. (Sponsor: Terry J. Housh, FACSM) Email: dcornell@uwm.edu (No relationships reported)

### Board #309
9:00 AM - 10:30 AM
Muscular Contributions to Upper-Body Exercise
Ashley L. VanSumeren, Matthew A. Kilgas, Thomas K. Bye, Dakota A. Anderson, Steven J. Elmer. Michigan Technological University, Houghton, MI. Email: alvansum@mtu.edu (No relationships reported)
Free Communication/Poster - Physical Activity Assessment in Youth

Thursday, June 1, 2017, 7:30 AM - 12:30 PM
Room: Hall F

**Board #333 8:00 AM - 9:30 AM**
Comparison of Self-Reported Physical Activity with Objectively Measured Physical Activity in Undergraduate Students
Megan C. Nelson1, Katrina Taylor1, Devin Drummer2, Kathleen R. Connor1, Chantal A. Vella, FACSM1. 1University of Idaho, Moscow, ID.
(No relationships reported)

**Board #334 8:00 AM - 9:30 AM**
Examining Fifth-Grade In-School Physical Activity Patterns: How Many Days of Monitoring Are Needed?
Tyler R. Langosch, Dale D. Brown, FACSM, Kelly R. Larson, Skip M. Williams. 1Illinois State University, Normal, IL.
(No relationships reported)

**Board #335 8:00 AM - 9:30 AM**
Accuracy of Smartwatches in Assessing College Students’ Energy Expenditure in Exercise with Different Intensities
Zan Gao, FACSM1, Xiaoxiong Li1, Nan Zeng1, Zachary Pope1, Huimin Yang1, Wenfeng Liu2, Hui Xiong2, Yanting Chen1, Jiao Li1, Wei He1. 1University of Minnesota, Minneapolis, MN; 2Hunan Normal University, Changsha, Hunan, China.
Email: gaoz@umn.edu
(No relationships reported)

**Board #336 8:00 AM - 9:30 AM**
Relationships of Objectively Measured Parent-Child Physical Activity and Sedentary Behavior in Toddlers
Keisuke Komura1, Kojiro Ishii2. 1Kyoto Bunkyo Junior College, Kyoto, Japan; 2Doshisha University, Kyoto, Japan. (Sponsor: Susumu Sawada, FACSM)
Email: k-komura@po.kbu.ac.jp
(No relationships reported)

**Board #337 8:00 AM - 9:30 AM**
Accuracy of Accelerometer-based Activity Energy Expenditure Prediction Equations for Children ages 3 to 6 years
Allison M. Barry1, Jung-Min Lee2, Wonwoo Byun1. 1University of Nebraska at Omaha, Omaha, NE; 2University of North Dakota, Grand Forks, ND.
(No relationships reported)

**Board #338 8:00 AM - 9:30 AM**
Estimating Physical Activity Intensity in Youth With Accelerometers: A Flexible Suite of Tools
Paul Hibbing, Laura Ellingson, Philip Dixon, Gregory Welk, FACSM, Iowa State University, Ames, IA.
(No relationships reported)

**Board #339 8:00 AM - 9:30 AM**
Not All Physical Activity Guidelines Are Created Equal: A Comparison Of Compliance In Preschool Children
Emily C. Huber, Jessica R. Meendering. South Dakota State University, Brookings, SD. (Sponsor: Matt Vukovich, FACSM)
Email: emily.huber@sdstate.edu
(No relationships reported)

**Board #340 8:00 AM - 9:30 AM**
International Physical Activity Questionnaire (IPAQ-SF) for Chinese College Students: A Validation Study
Hongjun Yu1, Weimo Zhu, FACSM2, Jun Qiu1. 1Tsinghua University, Beijing, China; 2University of Illinois at Urbana-Champaign, Urbana, IL. (Sponsor: Weimo Zhu, FACSM)
Email: yuhj12@mail.tsinghua.edu.cn
(No relationships reported)
Board #348  9:00 AM - 10:30 AM  
Rotational Head Acceleration of Thrown Person with Breakfall skills by Judo Throwing Techniques  
Haruo Murayama¹, Masahito Hitosugi¹, Yasuki Motozawa¹, Masahiro Ogino¹, Katsuhito Koyama¹, ¹Dokkyo Medical University, Shimotsuga-gun, Japan. ²Shiga University of Medical Science, Otsu, Japan. ³Honda R&D Co., Ltd., Haga-gun, Japan. ¹University of Yamanashi, Kofu, Japan.  
Email: hmurayama@dokkyomed.ac.jp  
(No relationships reported)

Board #349  9:00 AM - 10:30 AM  
Influence Of Proprioceptive Intervention On Joint Configuration During Sprint Starts In Elite Collegiate Sprinters  
Gabriel Gil, Rumesh Balendran, Will Wu, Mimi Nakajima, James Scibora.  
California State University: Long Beach, Long Beach, CA.  
Email: gmangine@kennesaw.edu  
(Sponsor: Joel Stager, FACSM)

Board #350  9:00 AM - 10:30 AM  
Observing First Time Use Of The Backstroke Starting Device In Competitive Swimmers  
Brian V. Wright¹, James McDonnell¹, James P. Babington¹, Wes Manz², Joel M. Stager, FACSM². ¹DePaul University; Greencastle, IN. ²Indiana University, Bloomington, IN.  
(Sponsor: Joel Stager, FACSM)

Board #351  9:00 AM - 10:30 AM  
A Common Drill Exercise In A World Champion Breaststroker - Does It Offer What It Promises?  
Bjorn Harald Olstad, Jan Cabri, Per-Ludvik Kjendlie.  
Norwegian School of Sport Sciences, Oslo, Norway.  
Email: b.h.olstad@nih.no  
(No relationships reported)

Board #352  9:00 AM - 10:30 AM  
Bilateral Force Comparisons during a Semi-Plié Relevé Movement in Ballet Dance  
University of Minnesota, Duluth, MN.  
(No relationships reported)

Board #353  9:00 AM - 10:30 AM  
The Mechanomyographic Activity of the Upper Trapezius Muscle is Heterogeneous in Response to Eccentric Exercise  
Pascal Madeleine.  
Aalborg University, Aalborg, Denmark.  
Email: pm@bst.aau.dk  
(No relationships reported)

Board #354  9:00 AM - 10:30 AM  
Effects of a 4-Week Intrinsic Foot Muscle Exercise Program on Motor Function  
John Fraser, Jay Hertel, FACSM.  
University of Virginia, Charlottesville, VA.  
(Sponsor: Jay Hertel, FACSM)

Board #355  9:00 AM - 10:30 AM  
Influence of Experience and Attentional Focus in a Single Arm Isokinetic Elbow Flexion  
Blake Loxtercamp, Marcus R. Moore, Lucy Kelleher, Lesley M. Scibora.  
University of St. Thomas, St. Paul, MN.  
Email: Loxt0002@stthomas.edu  
(No relationships reported)

Board #356  9:00 AM - 10:30 AM  
Core Muscle Function and Endurance in Patients with Patellofemoral Pain following Impairment-Based Rehabilitation  
L. Colly Mangum, Ashley Marshall, Neal Glaviano, Susan Saliba, Susan Saliba.  
University of Virginia, Charlottesville, VA.  
(Sponsor: Jay Hertel, FACSM)

Board #357  9:00 AM - 10:30 AM  
Single-leg Squat: Interrater Reliability And Sex Differences In Medial Knee Displacement In Collegiate Athletes  
Peter J. Lisman, Gillian A. McCarren, Dalton Nichols, Daniel C. MacLea.  
Towson University, Towson, MD.  
Email: plisman@towson.edu  
(No relationships reported)

Board #358  9:00 AM - 10:30 AM  
Angular Momentum Comparison of Two Collegiate Discus Throwers of Different Skill Level  
Ryan M. Hasenkamp, Scott K. Crawford, Jack W. Ransone, FACSM.  
University of Nebraska - Lincoln, Lincoln, NE.  
(Sponsor: John Ransone, FACSM)

Board #359  9:00 AM - 10:30 AM  
Predictors of Outcomes after ACL Reconstruction Differ Based on Meniscus Involvement  
Stephan G. Bodkin¹, Lindsay Slater¹, Grant Norte¹, John Goetschius². ¹University of Virginia, Charlottesville, VA. ²University of Toledo.  
Toledo, OH.  
(No relationships reported)

Board #360  9:00 AM - 10:30 AM  
Analysis of Time Distribution Pattern and Surface Electromyography Characteristics of Wheelchair Racing “Butterfly” Technique  
Junjie Wang¹, Wenzhe Yuan¹, Weimo Zhu, FACSM¹. ¹Dalian University of Technology, Dalian, China. ²University of Illinois at Urbana-Champaign, Urbana, IL.  
(Sponsor: Weimo,Zhu, FACSM)

Board #361  9:00 AM - 10:30 AM  
Influence of Hybrid III Head and Neck Position to Frontal Impacts  
Mark Jesunathadas, Trenton E. Gould, Scott G. Piland.  
University of Southern Mississippi, Hattiesburg, MS.  
Email: mark.jesunathadas@usm.edu  
(No relationships reported)

Board #362  9:00 AM - 10:30 AM  
A Robotic Resisted-sprint Improves Rate Of Force Development During A 20 Meter Sprint In Athletes  
Gerald Mangine¹, Kevin Huet¹, Cassie Williamson¹, Emily Bechke¹, Paul Serafini¹, David Bender¹, John Hudy², Jeremy Townsend². ¹Kennesaw State University; Woodstock, GA. ²Lipscomb University, Nashville, TN.  
Email: gmangine@kennesaw.edu  
(No relationships reported)
C-51  President's Lecture - The Impact of Exercise During Pregnancy: A Call to Action to Promote the Health of TWO Generations
Thursday, June 1, 2017, 10:30 AM - 11:20 AM
Room: Bellco Theatre 3

Michelle F. Mottola, FACSM. University of Western Ontario, London, ON, Canada. (No relationships reported)

C-52  President's Lecture - The Opioid Epidemic: How can the Sports Medicine Community Respond?
Thursday, June 1, 2017, 10:30 AM - 11:20 AM
Room: Bellco Theatre 1

James C. Puffer, FACSM. American Board of Family Medicine, Lexington, KY. (No relationships reported)
This session will cover the feasibility, efficacy, and cost effectiveness of using remote technology to deliver both physical activity and weight management interventions. Remote delivery is a new emerging concept that decreases barriers to both physical activity and weight management such as travel, space, and time, while allowing for greater social networking and potential cost savings.

1699  1:00 PM - 1:05 PM 
Chair: Joseph E. Donnelly, FACSM. University of Kansas Medical Center, Kansas City, KS. 
(No relationships reported) 

1700  1:05 PM - 1:30 PM 
Use of Remote Technology to Deliver Weight Management Interventions 
Erik Willis. National Cancer Institute, Rockville, MD. 
(No relationships reported) 

1701  1:30 PM - 1:55 PM 
Remote Delivery of Physical Activity Interventions 
Lauren T. Ptoomey. University of Kansas Medical Center, Kansas City, KS. 
(No relationships reported) 

1702  1:55 PM - 2:20 PM 
Using Media and Technology to Promote Physical Activity and Decreased Sedentary Behavior 
Renee Rogers. University of Pittsburgh, Pittsburgh, PA. 
Reported Relationships: R. Rogers: Contracted Research - Including Principle Investigator; PI on a grant awarded to the University of Pittsburgh by Weight Watchers International. 

1703  2:20 PM - 2:45 PM 
The Cost Savings of Remote Interventions 
Robert Lee. University of Kansas Medical Center, Kansas City, KS. 
(No relationships reported) 

2:45 PM - 3:00 PM 
Overall Discussion

D-04 Symposium - Community-based Physical Activity and Health Education Programs for Clinical Populations 
Thursday, June 1, 2017, 1:00 PM - 3:00 PM 
Room: Hotel-Centennial Ballroom D

This session will cover a brief background of community-based interventions and their success among non-clinical populations, followed by an exploration of introducing such programs as part of routine patient care. Experts who have either been publishing and/or experience implementing similar programs will address specific clinical populations, with special attention on metabolic complications. Clinical populations covered will include HIV, diabetes mellitus (type 1 and 2), and cancer. Attendees of this session will learn how combined efforts of community health leaders from various backgrounds (i.e. nursing, dietetics, physical therapy, and clinical exercise) can help extend patient care by adopting evidence-based health practices, such as physical activity, dieting, stress reduction, and medication adherence.
Given chronic disease disparities along racial/ethnic and socioeconomic lines, there has been an effort to diversify health sciences. However, scientists and clinicians face challenges recruiting and retaining underrepresented trainees. This symposium provides guidance learned from programs designed to mentor underrepresented individuals into successful health science careers. We include ACSM Leadership and Diversity Training Program, and the National Research Mentoring Network (NRMN), an NIH-funded Diversity Training Program, designed to mentor diverse members to ACSM individuals into successful health science careers. We include ACSM Leadership provides guidance learned from programs designed to mentor underrepresented trainees. This symposium has been an effort to diversify health sciences. However, scientists and clinicians face challenges recruiting and retaining underrepresented trainees. This symposium provides guidance learned from programs designed to mentor underrepresented individuals into successful health science careers. We include ACSM Leadership and Diversity Training Program, and the National Research Mentoring Network (NRMN), an NIH-funded Diversity Training Program, designed to mentor diverse members to ACSM individuals into successful health science careers.

**Symposium: Mentoring Matters: ACSM and National Efforts to Mentor Trainees from Diverse and Underrepresented Backgrounds Effectively**

**Thursday, June 1, 2017, 1:00 PM - 3:00 PM**

**Room:** Hotel-Centennial Ballroom F

**Chair:** Eduardo Bustamante, University of Illinois, Chicago, Chicago, IL.

**Programme**

1704  **1:00 PM - 1:10 PM**
Chair: J. Larry Durstone, FACSM. University of South Carolina, Columbia, SC.
(No relationships reported)

1705  **1:10 PM - 1:40 PM**
Community-based Physical Activity Interventions: Overview of Special Populations
Geoffrey E. Moore, FACSM. Healthy Living & Exercise Medicine Associates, Ithaca, NY.
(No relationships reported)

1706  **1:40 PM - 2:00 PM**
HIV-related Interventions to Increase Daily Physical Activity: Strategies to Improve Self-care Management
Jason R. Jaggers. University of Louisville, Louisville, KY.
(No relationships reported)

1707  **2:00 PM - 2:20 PM**
Active Steps for Diabetes: A Community-based Intervention for Rural Type 2 Diabetics
Amelia Dodd. Murray State University, Murray, KY.
(No relationships reported)

1708  **2:20 PM - 2:40 PM**
Empowering Breast Cancer Survivors to Coach and Motivate their Peers to Adopt Physically Active Lifestyles: The Moving Forward Together 3 Community Mentor Study
Madison Demello. University of South Carolina, Columbia, SC.
(No relationships reported)

1709  **2:40 PM - 3:00 PM**
Overall Discussion

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**D-06 Symposium - Muscle and Bone Interactions**

**Thursday, June 1, 2017, 1:00 PM - 3:00 PM**

**Room:** Hotel-Centennial Ballroom A

The relationship between muscle and bone has received much recent interest given that it is now clear that the relationship is more complex than originally thought. Both tissues are endocrine organs that can modulate biological function locally or in other tissues and organs, which might be critical in sensing and converting mechanical (i.e., exercise) or systemic stimuli into biochemical signals. This might have implications for the long- and short-term health of both tissues. Basic science studies have begun to unravel the complex interactions between the two tissues helping to explain potential links between muscle and bone quality.

**Chair:** Craig Sale, FACSM. Nottingham Trent University, Nottingham, United Kingdom.
(No relationships reported)

**Programme**

1712  **1:45 PM - 2:05 PM**
Building a Stronger ACSM Through the Leadership Diversity Training Program
Nicole Keith, FACSM. Indiana University-Purdue University Indianapolis, Indianapolis, IN.
(No relationships reported)

1713  **2:05 PM - 2:45 PM**
KEYNOTE: The National Research Mentoring Network (NRMN): Making a Diverse Scientific Workforce an NIH Priority and a Reality
Elizabeth Olifi. Morehouse University School of Medicine, Atlanta, GA.
(No relationships reported)

1714  **2:45 PM - 3:00 PM**
Overall Discussion

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**D-07 Thematic Poster - Body Composition and Health**

**Thursday, June 1, 2017, 1:00 PM - 3:00 PM**

**Room:** 101

**Chair:** Peter W. Grandjean, FACSM. Baylor University, Waco, TX.
(No relationships reported)
American College of Sports Medicine

Board #1
1:00 PM - 3:00 PM
Age Related Decline in VO_{2max} and Lean Body Mass in Masters Athletes
Manal A. Naseeb, Sinclair A. Smith, Emily N. Werner, 191021,
Masters Athletes
Florida, Gainesville, FL. (Sponsor: Stella Lucia Volpe, FACSJM)
Email: main6a@drexel.edu
(No relationships reported)

Board #2
1:00 PM - 3:00 PM
Development and Validation of Body Fat Prediction Equation In 20-69 Adults
JIXIU ZHAO, Chuanxue Huang, Ping Hong, Zhong He, Mei Wang, Hui Tian, Ran Li, Jinlin Zhou, Chunyan Xu, Ye Tian.
1China Institute of Sport Science, Beijing, China. 2Shandong University of Sport, Jinan, China. 3Beijing Sport University, Beijing, China. 4Chinese Mountaineering Association, Beijing, China.
Email: zhaojixiu@ciss.cn
(No relationships reported)

Board #3
1:00 PM - 3:00 PM
Analysis Of Visceral Fat Tissue Via Dual-energy X-ray Absorptiometry And Magnetic Resonance Imaging
Parker N. Hyde, Nathan Lamba, Christopher Crabtree, Debbie Scandling, Jay A. Richard, A. LaFountain, Teryn N. Sapper, Madison L. Bowling, Vincent J. Miller, Fionn T. Mc Swiney, Ryan M. Dickerson, Orlando P. Simonetti, Jeff S. Volek. The Ohio State University, Columbus, OH.
Email: hyde.110@osu.edu
(No relationships reported)

Board #4
1:00 PM - 3:00 PM
Is Unhealthy Fat Mass Disguised By A Healthy BMI In Females With Eating Disorders?
Kethe M.E. Engen, Therese F. Mathiesen, Jorunn Sundgot-Borgen, FACSJM.
Norwegian school of sport sciences, oslo, Norway.
(Sponsor: Jim Skinner, FACSJM)
Email: kmengen@nih.no
(No relationships reported)

Board #5
1:00 PM - 3:00 PM
Bias Between DXA And BIA Varies Based On Quantity Of Fat Mass And Fat-free Mass
Grant M. Tinsley, Jeffrey S. Forssed, Elisa Morales, Peter W. Grandjean, FACSJM. 1Texas Tech University, Lubbock, TX. 2Baylor University, Waco, TX. (Sponsor: Peter Grandjean, FACSJM)
Email: grant.tinsley@ttu.edu
(No relationships reported)

Board #6
1:00 PM - 3:00 PM
Effects Of Aerobic Exercise Training Intensity On Inflammatory Cytokines In Obese Hispanic Females
Kyu-Shin Park, Brett Nickerson, Jason Norris, Leslie Solis, Boung Jin Kang. 1Texas A&M International University, Laredo, TX. 2Elizabeth City State University, Elizabeth City, NC.
Email: kpark@tamu.edu
(No relationships reported)

Board #7
1:00 PM - 3:00 PM
Influence of Menopause and Fat Mass Distribution on Lipids and Lipoproteins in Normal-Weight Obese Women
Joshua S. Wooten, Benjamin L. Webb, Nancy M. Demarco, FACSJM. 1David L. Nichols, FACSJM, C. Barney Sanborn, FACSJM. 2Southern Illinois University Edwardsville, Edwardsville, Ill. 3Texas Woman's University, Denton, TX.
Email: jwooten@siue.edu
(No relationships reported)

Board #8
1:00 PM - 3:00 PM
Measurement of Subcutaneous Adipose Tissue in Pre-School Children using Ultrasound
Anne Kelso, Katharina Vogel, Juergen Steinacker, FACSJM.
University of Ulm, Ulm, Germany. (Sponsor: Prof. Dr. Juergen Steinacker, FACSJM)
Email: anne.kelso@uni-ulm.de
(No relationships reported)

D-08 Thematic Poster - Bone Quality in Special Populations
Thursday, June 1, 2017, 1:00 PM - 3:00 PM
Room: 505

Board #1
1:00 PM - 3:00 PM
A 1-Year Longitudinal Study of the Bone Mineral Density of Division I College Distance Runners
William P. McCormack, Hawley C. Almstedt, Todd C. Shoeppe, Caitlin A. Jennings. Loyola Marymount University, Los Angeles, CA.
Email: bkpm_mack@bellsouth.net
(No relationships reported)

Board #3
1:00 PM - 3:00 PM
Bone Metabolic Response to 216 km Ultra-Marathon Running
Renate M. Leithauser, Heinz J. Roth, Michael Doppelmayer, Serge P. von Duvillard, FACSJM, Lawrence A. Golding, FACSJM, Ralph Beneke, FACSJM. 1University of Surrey, Guildford, United Kingdom. 2GSK Human Performance Lab, Brentford, United Kingdom. 3Khoo Teck Puat Hospital, Yishun, Singapore. 4Boston Children's Hospital, Boston, MA. 5Massachusetts General Hospital, Boston, MA. (Sponsor: Kathy E. Ackerman, FACSJM)
Email: s.allison@surrey.ac.uk
(No relationships reported)

Board #4
1:00 PM - 3:00 PM
Seasonal Differences In Bone Characteristics In Elite Team Sport Players
Ian Varley, Julie Williams, Julie P. Grevess, Rachel Izard, Craig Sale, FACSJM. 1Nottingham Trent University, Nottingham, United Kingdom. 2Women Ground Close Combat Review, Andover, United Kingdom.
(No relationships reported)

Board #5
1:00 PM - 3:00 PM
Total and Regional BMD Comparison of Collegiate Male and Female Athletes
Ronald Otterstetter, FACSJM, Michael G. Robinson, Rachelle M. Kappler. The University of Akron, Akron, OH.
Email: ro5@uakron.edu
(No relationships reported)
1734 Board #6
1:00 PM - 3:00 PM
Changes in Tibial Bone Density and Microarchitecture in Response to British Army Infantry Training
Rachel M. Irdar1, Thomas J. O’Leary1, Julie P. Grooves2, 1HQ Army Recruiting and Training Division, Pewsey, United Kingdom. 2Army Personnel Research Capability, Andover, United Kingdom. (Sponsor: Prof Neil Walsh, FACSM)
Email: rachel.irdar715@mod.uk
(No relationships reported)

1735 Board #7
1:00 PM - 3:00 PM
Pre And Postpartum Body Composition: A Case Study In Pregnancy, Lactation, And Physical Activity
Jacilyn M. Olson. University of Central Oklahoma, Edmond, OK.
Email: jolson3@uco.edu
(No relationships reported)

D-09 Thematic Poster - Heat Exposure/Cooling Methods
Thursday, June 1, 2017, 1:00 PM - 3:00 PM
Room: 403

1736 Chair: Craig Crandall, FACSM. Institute for Exercise and Environmental Medicine, Dallas, TX.
(No relationships reported)

1737 Board #1
1:00 PM - 3:00 PM
The Effect Of Drink Temperature On Sweating Response And Performance During Exercise In The Heat
Martin Barwood1, Jon Bateman1, Stuart Goodall1, 1Leeds Trinity University, Horsham, United Kingdom. 2Northumbria University, Newcastle Upon Tyne, United Kingdom.
Email: M.Barwood@leedstrinity.ac.uk
(No relationships reported)

1738 Board #2
1:00 PM - 3:00 PM
Voluntary Intake of Ice Slurry Beverages and Exercise Performance During Heat Stress
Jason Ng1, Jonathan E. Wingo, FACSM2, Ashleigh V. Hallmark3, Avery J. Brown2, Stephen A. Powers2, 1California State University, San Bernardino, San Bernardino, CA. 2The University of Alabama, Tuscaloosa, AL. (Sponsor: Jonathan E. Wingo, FACSM)
Email: jason.ng@csusb.edu
(No relationships reported)

1739 Board #3
1:00 PM - 3:00 PM
Effect Of L (+) Menthol On Exercise At A Fixed-RPE In The Heat
Tessa Flood1, Mark Waldron2, Owen Jeffries2, 1University of Chichester, Chichester, United Kingdom. 2St Mary’s University, Twickenham, United Kingdom.
Email: T.Flood@chi.ac.uk
(No relationships reported)

1740 Board #4
1:00 PM - 3:00 PM
Investigating the Potential Mechanisms Responsible for Aerobic Performance Improvements with Neck Cooling in the Heat
Nathan B. Morris, Felicity M. Bright, Ollie Jay, FACSM. University of Sydney, Sydney, Australia. (Sponsor: Dr. Ollie Jay, FACSM)
Email: nathan.morris@sydney.edu.au
(No relationships reported)

1741 Board #5
1:00 PM - 3:00 PM
Cold Saline Infusion and Reduced Severity of Exertional Heat Illness
David W. DeGroot, FACSM1, Nathanael Hathaway2, Daniel Bigley2, Christopher McGuire1, Gordon Mok2, 1Tripler Army Medical Center, Honolulu, HI. 2SHAPE Healthcare Clinic, Mons, Belgium. 3DiLorenzo TRICARE Health Clinic, Washington, DC. 4Martin Army Community Hospital, Ft Benning, GA. 5US Army Health Clinic Hohenfels, Hohenfels, Germany.
Email: david.w.degroot.mil@mail.mil
(No relationships reported)

1742 Chair: Rebecca D. Larson. University of Oklahoma, Norman, OK.
(No relationships reported)

1743 Board #1
1:00 PM - 3:00 PM
An Exploratory Investigation of Inflammation-Associated Circulating MicroRNAs Following Acute High-Intensity Interval Exercise
Fanchen Bao1, Michael Whitehurst, FACSM2, Aaron L. Shusher2, Arun Maharaj3, Thomas Mock1, Chun-Jung Huang, FACSM3, 1Florida Atlantic University, Boca Raton, FL. 2Virginia Commonwealth University, Richmond, VA. 3Florida State University, Tallahassee, FL.
(No relationships reported)

1744 Board #2
1:00 PM - 3:00 PM
The Comparison Of High-intensity Interval Exercise-Vs. Continuous Moderate-intensity Exercise-mediated Calprotectin And Inflammatory Mediators
Brandon G. Fico, Michael Whitehurst, FACSM, Aaron L. Shusher, James T. Mock, Arun Maharaj, Katelyn M. Dodge, Chun-Jung Huang, FACSM, Florida Atlantic University, Boca Raton, FL. (Sponsor: Chun-Jung Huang, FACSM)
Email: bfico@fau.edu
(No relationships reported)

1745 Differences In Plasma And Serum BDNF In Response To Acute HIIE
Virginia T. Patterson, Aaron L. Shusher, Edmund O. Acevedo, FACSM, Virginia Commonwealth University, Richmond, VA. (Sponsor: Edmund Acevedo, FACSM)
Email: pattersonvt@vcu.edu
(No relationships reported)

1746 The Response of Leukemia Inhibitory Factor to High-Intensity and High-Volume Resistance Training in Trained Men
David D. Church1, Jay R. Hoffman, FACSM1, Gerald T. Mangine2, Adam R. Jajtner3, Jeremy R. Townsend4, Adam M. Gonzalez5, Kyle S. Beyer1, Ran Wang1, Carleigh H. Boone1, Michael B. La Monica1, Amelia A. Miramonti6, Adam, J. Wells1, David H. Fukuda1, Jeffrey R. Stout, FACSM1, 1University of Central Florida, Orlando, FL. 2Kennesaw State University, Kennesaw, GA. 3Kent State University, Kent, OH. 4Lipscomb University, Nashville, TN. 5Hofstra University, Hempstead, NY. 6University of Nebraska, Lincoln, NE. (Sponsor: Jay R. Hoffman, FACSM)
(No relationships reported)

1747 High Intensity Interval Training Improves Disease Activity and Immune Function in Patients with Rheumatoid Arthritis
David B. Bartlett1, Cris A. Sletzer2, Leslie H. Willis1, William E. Kraus1, FACSM1, Janet M. Lord2, Kim M. Huffman1. 1Duke University, Durham, NC. 2University of Virginia, Charlottesville, VA. (Sponsor: Arthur Weltman, FACSM)
Email: david.bartlett@duke.edu
(No relationships reported)

1748 Effect of Interval vs Continuous Exercise Training on Acylated Ghrelin and Appetite in Prediabetic Adults
Emily M. Heiston, Natalie ZM Eichner, Nicole M. Gilbertson, Zhenqi Liu, Eugene J. Barrett, Arthur Weltman, FACSM, Steven K. Malin. University of Virginia, Charlottesville, VA. (Sponsor: Arthur Weltman, FACSM)
(No relationships reported)
### D-11  Thematic Poster - Wearables: Applications in Research and Practice

**Thursday, June 1, 2017, 1:00 PM - 3:00 PM**

**Room:** 304

<table>
<thead>
<tr>
<th>Session Number</th>
<th>Title</th>
<th>Chair/Authors</th>
<th>Affiliation/Contact Information</th>
</tr>
</thead>
</table>
| 1749          | Board #1: A Consumer Activity Tracker is Sensitive to Changes In Steps during Simulated Free-Living | Greg J. Petrucci, Brittany R. Masterfller, Melanna F. Cox, John W. Staudenmayer, John R. Sirard, Patty S. Freedson, FACSM.  | Email: gpetrucci@umass.edu  
(No relationships reported)                                                                                   |
| 1750          | Move More, Sit Less? Analysis of an Employer Activity Tracker Workplace Wellness Program | Peter B. Kiessling II, Carol Kennedy-Armbruster, FACSM, Mariah Deinhart, Mary Kerby, Rachel Ryder, Katherine Zukerman, Samantha Schaefer.  | Indiana University, Bloomington, IN. (Sponsor: Carol Kennedy-Armbruster, FACSM)  
Email: pkiessling@indiana.edu  
(No relationships reported)                                                                                   |
| 1751          | Board #2: Adding An Activity Tracker To An Ongoing Community-based Weight-loss Program: Preliminary Results Of An RCT | Kathryn E. Wilson¹, Samantha M. Harder¹, Anna E. Taggart¹, Lia Schoepke¹, Todd McGuire¹, Paul A. Estabrooks¹.  | University of Nebraska Medical Center, Omaha, NE.  
University of Michigan, Ann Arbor, MI.  
Email: wilsonek08@indiana.edu  
(No relationships reported)                                                                                   |
| 1752          | Board #3: Does Wearable Movement Detection Device Promote Better Exercise Compliance? | Xiaoyue Hu, Stanely Sai-chuen Hui, FACSM, The Chinese University of Hong Kong, Hong Kong, Hong Kong.  | Email: mnoonica6u@link.cuhk.edu.hk  
(No relationships reported)                                                                                   |
| 1753          | Board #4: Fit Physician - An Interdisciplinary Approach To Promoting Physical Activity In Medical Students Utilizing Activity Trackers | Alexander Stangle, Jerry Balentine, Min-Kyung Jung, William G. Werner, Hallie Zwibel, Joanne DiFrancisco-Donohue, New York Institute of Technology College of Osteopathic Medicine, Old Westbury, NY.  | Email: astangle@nyit.edu  
(No relationships reported)                                                                                   |
| 1755          | Board #6: Comparison of Smartphone Pedometer Apps on a Treadmill versus Outdoors | Ivan A. Figueroa¹, Jesus Gonzalez², Perla Leyva¹, Jose L. Gamez¹, Naomi Lucio¹, Vanessa E. Salazar³, Cindy Salazar³, Miriam Garcia³, Merrill D. Funk³.  | University of Texas Rio Grande Valley, Brownsville, TX.  
University of Texas School of Public Health Health Science Center at Houston Brownsville Regional Campus, Brownsville, TX.  
(No relationships reported)                                                                                   |
1764 2:15 PM - 2:30 PM  
**3D Hip And Knee Mechanics During Hop Tests After ACL Reconstruction Measured With Inertial Sensors**  
Jasper Reenalda1, Erik Maartense1, Paul Kline1, Jaap Buurke1, Mary Lloyd Ireland, FACSM2, Brian Noehren, FACSM2, Roessingh Research and Development, University of Twente, Enschede, Netherlands. 1University of Kentucky, Lexington, KY.  
Email: j.reenalda@rrd.nl  
(No relationships reported)

1765 2:30 PM - 2:45 PM  
**Relationship Between Quadriceps Function and Patient Reported Outcomes in ACL-R Patients With and Without Osteoarthritis**  
Grant Nortle, Jay Hertel, FACSM2, Susan Saliba2, David Diduch2, Joe Hart, FACSM2, 1University of Toledo, Toledo, OH 2University of Virginia, Charlottesville, VA. (Sponsor: Joe Hart, FACSM)  
(No relationships reported)

1766 2:45 PM - 3:00 PM  
**The Long Term Effect Of Quadriceps Strength On Patient Reported Outcomes After An ACL Reconstruction**  
Molly Lex, Darren Johnson, FACSM, Mary Lloyd Ireland, FACSM, Brian Noehren, FACSM. University of Kentucky, Lexington, KY.  
(No relationships reported)

**D-13  Free Communication/Slide - Mechanisms of Muscle Atrophy and Hypertrophy**  
Thursday, June 1, 2017, 1:00 PM - 3:00 PM  
Room: 504

1775 2:45 PM - 3:00 PM  
**Inducible Overexpression of p21Cip1 in Myoblasts Promotes Increases in Protein Synthesis and Myotube Hypertrophy**  
C. Brooks Mobley1, Tyler Kirby2, Christopher Ballmann3, John Quindry, FACSM2, John J. McCarthy4, Michael D. Roberts5. 1University of Illinois at Urbana-Champaign, Urbana, IL. 2University of Kentucky, Lexington, KY. 3University of Toledo, Toledo, OH. 4University of Kentucky, Lexington, KY. 5Auburn University, Auburn, AL.  
Email: mbcleb@auburn.edu  
(No relationships reported)

1776 2:00 PM - 2:15 PM  
**Blockade Of Mtor And Erk1/2 Resulted In Attenuated Protein Synthesis Rates In Differentiated C2c12 Myoblasts.**  
J William Deaver, Colleen L. OReilly, Stephen F. Crouse, FACSM, James D. Fluckey. Texas A&M University, College Station, TX.  
(Sponsor: Stephen F. Crouse, FACSM)  
Email: jwdeaver@tamu.edu  
(No relationships reported)

1777 2:15 PM - 2:30 PM  
**6 Weeks Of Nrf2-activator And Protein Supplementation Improves Myofibrillar Proteostasis In Men.**  
Robert V. Musci, Adam R. Konopka, Jaine L. Laurin, Christopher A. Wolff, Justin J. Reid, Laurie M. Biela, Fredrick F. Peelor, III, Christopher L. Melby, Karyn L. Hamilton, FACSM, Benjamin F. Miller, FACSM. Colorado State University, Fort Collins, CO.  
(Sponsor: Karyn Hamilton, FACSM)  
Email: rob.musci@colostate.edu  
(No relationships reported)

**D-14  Clinical Case Slide - Elbow**  
Thursday, June 1, 2017, 1:00 PM - 3:00 PM  
Room: 401

1778 1:00 PM - 1:20 PM  
**Elbow Pain in an Adolescent Baseball Pitcher**  
Mallory Shasteen, Kyle Cassas, FACSM. Greenville Health System/Steadman Hawkins Clinic of the Carolinas, Greenville, SC.  
(Sponsor: Kyle Cassas MD, FACSM)  
Email: mallory.shasteen@gmail.com  
(No relationships reported)

1779 1:20 PM - 1:40 PM  
**Elbow Injury - Baseball**  
Terin Sytsma, Timothy McKenna. Mayo Clinic, Rochester, MN.  
(Sponsor: Dr. Karen Newcomer, FACSM)  
Email: sytsma.terin@mayo.edu  
(No relationships reported)
D-15 Clinical Case Slide - Foot and Ankle II
Thursday, June 1, 2017, 1:00 PM - 2:40 PM
Room: 402

1785 Chair: Ashley Zapf, Schwab Rehabilitation Hospital, Chicago, IL.
(No relationships reported)

1786 Discussant: Michael Fredericson, FACSM, Stanford University, Stanford, CA.
(No relationships reported)

1787 Discussant: David Olson, FACSM, University of Minnesota, St. Paul, MN.
(No relationships reported)

1788 1:00 PM - 1:20 PM
Uncommon Cause Of Footpain After Trauma In A Collegiate Rugby Union Player
Pierre L. Viviers, FACSM, Wayne Derman, Jeandre T. Viljoen. Stellenbosch University, Stellenbosch, South Africa.
Email: phl.viviers@sun.ac.za
(No relationships reported)

1789 1:20 PM - 1:40 PM
Dance is Pain
Thomas A. Moran1, Holly Benjamin, FACSM. 1University of Chicago-NorthShore, Glenview, IL. 2University of Chicago, Chicago, IL.
(No relationships reported)

1790 1:40 PM - 2:00 PM
Chronic Plantar Fasciitis: From Disability To Running!
Lindsay Troilo, Irene Davis, FACSM. Spaulding Outpatient Center Cambridge, Cambridge, MA.
(No relationships reported)
D-20 Tutorial Lecture - Energy Dysregulation: From Obesity to Anorexia
Thursday, June 1, 2017, 1:00 PM - 1:50 PM
Room: 110

Chronic states of energy imbalances such as obesity and clinical eating disorders (i.e., anorexia nervosa, bulimia nervosa, and binge eating disorder) have been associated with the dysregulation of appetite and satiety signaling in the brain and from the gut. The goal of this session is to compare and contrast the key signaling alterations among these conditions, describe important male and female differences related to appetite and satiety, and explore the implications on current nutrition and exercise treatment guidelines. The session will conclude with a discussion of potential therapies that may improve success of treatment and highlight needs for future research.

1807 Lynn Cialdella-Kam. Case Western Reserve University, Cleveland, OH.
(No relationships reported)

D-21 Tutorial Lecture - Hot off the Presses: A Revised Youth Compendium of Physical Activities
Thursday, June 1, 2017, 1:00 PM - 1:50 PM
Room: 205

Determining energy costs of different activities allows coding of physical activity, physical activity counseling, and tracking energy balance. Energy expenditures in existing Youth and Adult Compendia are expressed as Metabolic Equivalents of Task. Currently ~65% of the values in the Youth Compendium are adult-based. Children’s mass-specific resting energy expenditure declines with age and considerable data have been collected since the development of the current Youth Compendium. Thus, an opportunity existed to develop a more accurate Youth Compendium. Speakers will present information on expressing energy costs in youth. The speakers will also present the updated Youth Compendium of Physical Activities WEB1.0.

1808 Kathleen B. Watson. Centers for Disease Control and Prevention, Atlanta, GA.
(No relationships reported)

1809 Karin Pfeiffer, FACSM. Michigan State University, East Lansing, MI.
(No relationships reported)

1810 Stephen D. Herrmann. Sanford Research, Sioux Falls, SD.
(No relationships reported)
The use of performance-enhancing drugs (PED) has the potential to destroy the integrity of sports. Although a great deal of resources are devoted to drug testing and deterrence, it has been very difficult to demonstrate that a comprehensive anti-doping program results in a reduction of use. Major League Baseball undertook a multi-disciplinary approach to a population with a high prevalence of PED use and over a 10-year period was able to demonstrate a dramatic reduction in use. In addition, the session will outline the current research that has been conducted in the field of anti-doping that has assisted in this effort.
THURSDAY, JUNE 1, 2017

### D-32 Basic Science World Congress - Symposium - Novel Approaches to Understanding the Effects of Exercise on the Brain

**Chair:** Marc-Andre Cornier. University of Colorado, Denver, CO.

- **3:15 PM - 3:20 PM**
  - **Physiological Effects of Exercise on the Brain - a Cardiovascular Perspective**
  - Takashi Tarami. UT Southwestern Medical Center Dallas, Dallas, TX.

- **3:20 PM - 3:45 PM**
  - **Of Mice and Men: Bridging the Basic and Translational Findings on Exercise and Cognition**
  - Alexis M. Stranahan. Augusta University, Augusta, GA.

- **3:45 PM - 4:10 PM**
  - **Exercise and Neuronal/Behavioral Changes in the Brain**
  - Marc-Andre Cornier. University of Colorado Health Sciences Center, Aurora, CO.

- **4:10 PM - 4:35 PM**
  - **Neuroprotective Effect of Endurance Training on the Aging Brain**
  - Katelyn N. Wood. Western University, London, ON, Canada.

- **4:35 PM - 5:00 PM**
  - **Overall Discussion**

### D-33 Basic Science World Congress - Symposium - Physical Activity Induced Neuroplasticity

**Chair:** J. Carson Smith, FACSM. University of Maryland, College Park, MD.

- **3:15 PM - 3:20 PM**
  - **Physical Activity and Brain Plasticity with Increased Risk for Alzheimer's Disease**
  - J. Carson Smith, FACSM. University of Maryland, College Park, MD.

- **3:20 PM - 3:45 PM**
  - **Aging, Physical Activity and Neuroplasticity**

### D-34 Symposium - Beyond Meniscectomy: Nonoperative and Operative Treatment Strategies for Meniscal Tears

**Chair:** Mary Lloyd Ireland, FACSM. University of Kentucky Medical Center, Lexington, KY.

- **3:15 PM - 3:25 PM**
  - **Meniscal Tear Prognosis**
  - Jeremy M. Burnham. University of Pittsburgh Medical Center, Pittsburgh, PA.

- **3:25 PM - 3:45 PM**
  - **Surgical Repair Options of Acute Meniscal Tears**
  - Brian Noehren, FACSM. University of Oregon Health Sciences Center, Portland, OR.

- **3:45 PM - 4:00 PM**
  - **Cutting Edge: Biologic Repair and Allograft Reconstruction of Meniscal Tears**
  - Mark Hutchinson, FACSM. University of Illinois College of Medicine, Chicago, IL.

- **4:00 PM - 4:10 PM**
  - **Overall Discussion**

### D-35 Symposium - ACSM/AMSSM: CAQ Review Session (Part 1)

**Chair:** J. Carson Smith, FACSM. University of Maryland, College Park, MD.

- **3:15 PM - 3:20 PM**
  - **Strategies for Meniscal Tears**
  - Jeremy M. Burnham. University of Pittsburgh Medical Center, Pittsburgh, PA.

- **3:20 PM - 3:45 PM**
  - **Physical Activity and Brain Plasticity with Increased Risk for Alzheimer's Disease**
  - J. Carson Smith, FACSM. University of Maryland, College Park, MD.

- **3:45 PM - 4:10 PM**
  - **Aging, Physical Activity and Neuroplasticity**

ACSM May 30 – June 3, 2017

ACSM 64th Annual Meeting

This session will evaluate the non-meniscectomy treatment of meniscus tears in athletes of all ages. Faculty will present a concise overview of anatomic, biologic, and biomechanical aspects related to injury and repair, nonoperative treatment options such as a structured rehabilitation program, and operative treatment options such as repair and reconstruction. Furthermore, faculty will present weight bearing and activity guidelines for each described treatment method, and conclude with case presentations demonstrating the appropriate treatment options across a variety of patients and injury patterns.
This symposium brings together 4 prominent investigators who have supportive (metformin, statins) or results are just emerging (GLP-1 agonists, SGLT-2 inhibitors). This symposium brings together 4 prominent investigators who have supportive (metformin, statins) or results are just emerging (GLP-1 agonists, SGLT-2 inhibitors).

Physical activity is of unquestionable benefit to manage cardiometabolic disease (e.g. Type-2 diabetes, heart disease). Medications prescribed to counter these conditions are approved in the context of “healthy diet and exercise” but little is known regarding exercise/medication interactions. It seems logical that medications with exercise-like benefits (e.g. lowering blood glucose and serum cholesterol) would have additive effects when combined with exercise, but recent research has not been universally agreed upon. The goals of the symposium are to 1) increase awareness and understanding of how the gut microbiome influences health, and 2) present the best available science regarding the interactions among exercise, nutrition, and the gut microbiome. Presentations will include a tutorial on the gut microbiome and how it affects nutrient energy harvest and inflammation, three presentations from research abstracts focusing on exercise, nutrition, and the gut microbiome, and two keynote presentations on the impact of exercise on the gut microbiome from researchers who are doing pioneering work in the field.

The symposium brings together 4 prominent investigators who have overseen clinical trials of these widely prescribed medications combined with exercise.

**D-36 Symposium - Do Common Cardiometabolic Medications Accentuate or Oppose Exercise Benefits?**

**Thursday, June 1, 2017, 3:15 PM - 5:15 PM**

**Room: Belco Theatre 3**

**Chair:** Kevin R. Vincent, FACSM. University of Florida, Gainesville, FL.  
(No relationships reported)

**3:15 PM - 3:20 PM**

**Infectious Disease**

Aaron Rubin, FACSM. Kaiser Permanente Sports Medicine Program, Fontana, CA.  
(No relationships reported)

**3:20 PM - 3:40 PM**

**Hand and Finger Injuries**

William W. Dexter, FACSM. Maine Medical Center, South Portland, ME.  
(No relationships reported)

**3:40 PM - 4:00 PM**

**Exercise Physiology: Strength Training Periodization and Adaptations**

Kevin R. Vincent, FACSM. University of Florida, Gainesville, FL.  
(No relationships reported)

**4:00 PM - 4:20 PM**

**Hematology**

Mark Bouchard, FACSM. Maine Medical Center, Portland, ME.  
(No relationships reported)

**4:20 PM - 4:40 PM**

**Mass Participation Events**

Willam O. Roberts, FACSM. University of Minnesota, Minneapolis, MN.  
(No relationships reported)

**4:40 PM - 5:00 PM**

**Exercise, Nutrition, and the Gut Microbiome**

The goals of the symposium are to 1) increase awareness and understanding of how the gut microbiome influences health, and 2) present the best available science regarding the interactions among exercise, nutrition, and the gut microbiome. Presentations will include a tutorial on the gut microbiome and how it affects nutrient energy harvest and inflammation, three presentations from research abstracts focusing on exercise, nutrition, and the gut microbiome, and two keynote presentations on the impact of exercise on the gut microbiome from researchers who are doing pioneering work in the field.

**Chair:** Mary P. Miles, FACSM. Montana State University, Bozeman, MT.  
(No relationships reported)

**3:15 PM - 3:20 PM**

**Exercise Interactions with Statins**

Beth A. Taylor. University of Connecticut, Storrs, CT.  
(No relationships reported)

**3:20 PM - 3:40 PM**

**Exercise Interactions with Metformin**

Barry Braun, FACSM. Colorado State University, Fort Collins, CO.  
(No relationships reported)

**3:40 PM - 4:00 PM**

**Can You Exercise Train Your Gut Microbes?**

Jeffrey A. Woods, FACSM. University of Illinois/Urbana-Champaign, Urbana, IL.  
(No relationships reported)

**4:00 PM - 4:15 PM**

**Effects of Aerobic Exercise on Fecal Microbial-Derived Metabolites in Lean and Obese Men and Women**

Lucy Mailing, Jacob Allen, Grace Niemiro, Josh Cohrs, Hannah Holscher, Michael DeLisio, Jeffrey Woods, FACSM. University of Illinois at Urbana-Champaign, Urbana, IL.  
(No relationships reported)

**4:15 PM - 4:30 PM**

**Exercise Reduces High-Fat Diet Induced Colon Inflammation but Does Not Influence MUC2 Expression**

Paul J. Wisniewski, II, Laurie B. Joseph, Gabriella Composto, Stanley A. Lightfoot, Sara C. Campbell, FACSM. Rutgers University, New Brunswick, NJ.  
(No relationships reported)

**4:30 PM - 4:45 PM**

**Gut Microbiota Transplantation From Exercise-trained Mice Results In Altered Microbial Colonization And Short Chain Fatty Acid Profiles In The Gut Of Recipient Gnotobiotic Mice**

Jacob M. Allen, Lucy Mailing, Charles Salomonson, Purna Kashyap, Josh Cohrs, Bryan White, Jeffrey Woods, FACSM. University of Illinois, Urbana, IL.  
(No relationships reported)

**Final Program P127**

**Exercise Interactions with Statins**

Beth A. Taylor. University of Connecticut, Storrs, CT.  
(No relationships reported)

**Exercise Interactions with Metformin**

Barry Braun, FACSM. Colorado State University, Fort Collins, CO.  
(No relationships reported)

**Can You Exercise Train Your Gut Microbes?**

Jeffrey A. Woods, FACSM. University of Illinois/Urbana-Champaign, Urbana, IL.  
(No relationships reported)

**Effects of Aerobic Exercise on Fecal Microbial-Derived Metabolites in Lean and Obese Men and Women**

Lucy Mailing, Jacob Allen, Grace Niemiro, Josh Cohrs, Hannah Holscher, Michael DeLisio, Jeffrey Woods, FACSM. University of Illinois at Urbana-Champaign, Urbana, IL.  
(No relationships reported)

**Exercise Reduces High-Fat Diet Induced Colon Inflammation but Does Not Influence MUC2 Expression**

Paul J. Wisniewski, II, Laurie B. Joseph, Gabriella Composto, Stanley A. Lightfoot, Sara C. Campbell, FACSM. Rutgers University, New Brunswick, NJ.  
(No relationships reported)

**Gut Microbiota Transplantation From Exercise-trained Mice Results In Altered Microbial Colonization And Short Chain Fatty Acid Profiles In The Gut Of Recipient Gnotobiotic Mice**

Jacob M. Allen, Lucy Mailing, Charles Salomonson, Purna Kashyap, Josh Cohrs, Bryan White, Jeffrey Woods, FACSM. University of Illinois, Urbana, IL.  
(No relationships reported)
THURSDAY, JUNE 1, 2017

D-38 Symposium - Olympic and Paralympic Nordic Skiing: Lessons to Learn
Thursday, June 1, 2017, 3:15 PM - 5:15 PM
Room: 302

The rich biomechanical-physiological literature in Nordic skiing since 2000 is reviewed and used as a platform of knowledge applicable in sit-skiing. This knowledge transfer has recently led to innovative biomechanical studies in elite sit-skiers examining the impact of physical impairment on skiing performance. The last part of the symposium will focus on pacing/decision making strategies in intellectually impaired vs. non-impaired skiers. International collaboration between experts in Olympic and Paralympic Nordic skiing has increased the research output in the last couple of years and has generated new insights and new questions in Nordic skiing for athletes with and without impairments.

1864 4:45 PM - 5:05 PM
Microbial Diversity is Regulated by Diet and Exercise
Sara C. Campbell, FACSM. Rutgers University, New Brunswick, NJ.
(No relationships reported)

5:05 PM - 5:15 PM
Overall Discussion

1865 3:15 PM - 3:25 PM
Chair: Walter R. Thompson, FACSM. Georgia State University, Atlanta, GA.
(No relationships reported)

3:25 PM - 3:50 PM
Introduction
Walter R. Thompson, FACSM. Georgia State University, Atlanta, GA.
(No relationships reported)

3:50 PM - 4:15 PM
Biomechanics and Physiology of Nordic Skiing with Special Focus on Double Poling
Stefan J. Lindinger, University of Salzburg, Salzburg, Austria.
(No relationships reported)

4:15 PM - 4:40 PM
Biomechanical-physiological Aspects of Natural and Simulated Nordic Sit-skiing
Vesa Linnamo. University of Jyväskylä, Jyväskylä, Finland.
(No relationships reported)

4:40 PM - 5:05 PM
Nordic Skiing Performance in Athletes with Intellectual Impairment
Yves Vanlandewijck, KU Leuven, Leuven, Belgium.
(No relationships reported)

5:05 PM - 5:15 PM
Overall Discussion

1866 3:15 PM - 3:35 PM
Chair: Bo Fernhall, FACSM. University of Illinois at Chicago, Chicago, IL.
(No relationships reported)

3:35 PM - 3:45 PM
KU Leuven, Leuven, Belgium.
(No relationships reported)

3:45 PM - 4:05 PM
Nordic Skiing Performance in Athletes with Intellectual Impairment
Yves Vanlandewijck, KU Leuven, Leuven, Belgium.
(No relationships reported)

4:05 PM - 4:25 PM
Biomechanical-physiological Aspects of Natural and Simulated Nordic Sit-skiing
Vesa Linnamo. University of Jyväskylä, Jyväskylä, Finland.
(No relationships reported)

4:25 PM - 4:45 PM
Biomechanics and Physiology of Nordic Skiing with Special Focus on Double Poling
Stefan J. Lindinger, University of Salzburg, Salzburg, Austria.
(No relationships reported)

4:45 PM - 5:05 PM
Introduction
Walter R. Thompson, FACSM. Georgia State University, Atlanta, GA.
(No relationships reported)

5:05 PM - 5:15 PM
Overall Discussion

1867 3:15 PM - 3:25 PM
Chair: Robert Cantu, FACSM. Emerson Hospital, Boston, MA.
(No relationships reported)

3:25 PM - 3:45 PM
Methods and Overview of Catastrophic Sport Injury and Illness Research
Kristen L. Kucera. National Center for Catastrophic Sport Injury Research, University of North Carolina at Chapel Hill, Chapel Hill, NC.
(No relationships reported)

3:45 PM - 4:05 PM
Catastrophic Traumatic Injuries in Sport
Kevin Gusiewicz, FACSM. University of North Carolina at Chapel Hill, Chapel Hill, NC.
(No relationships reported)

4:05 PM - 4:25 PM
Sudden Cardiac Arrest and Death among Athletes
Kimberly Harmon, FACSM. University of Washington, Seattle, WA.
Reported Relationships: K. Harmon: Ownership Interest (Stocks, Bonds); stock options 98point6.

4:25 PM - 4:45 PM
Catastrophic Heat and Exertional-Related Conditions among Athletes
Douglas Casa, FACSM. University of Connecticut, Storrs, CT.
(No relationships reported)

4:45 PM - 5:05 PM
Overall Discussion

1870 3:15 PM - 3:30 PM
Chair: Bo Fernhall, FACSM. University of Illinois at Chicago, Chicago, IL.
(No relationships reported)

3:30 PM - 3:45 PM
Differential Responses to Exercise Among Blacks and Whites: Epidemiological Evidence
Peter Kokkinos, FACSM. Veterans Affairs Medical Center, Washington, DC.
(No relationships reported)

3:45 PM - 4:10 PM
Health Disparities in Blood Pressure and Exercise: Post Exercise Hypotension and Exercise Training
Bo Fernhall, FACSM. University of Illinois at Chicago, Chicago, IL.
(No relationships reported)

4:10 PM - 4:35 PM
Differential Responses in Arterial Function between African Americans and Caucasians to Exercise: Implications for Blood Pressure
Shane Phillips. University of Illinois at Chicago, Chicago, IL.
(No relationships reported)

1871 3:20 PM - 3:40 PM
Methods and Overview of Catastrophic Sport Injury and Illness Research
Kristen L. Kucera. National Center for Catastrophic Sport Injury Research, University of North Carolina at Chapel Hill, Chapel Hill, NC.
(No relationships reported)

1872 3:40 PM - 4:05 PM
Catastrophic Traumatic Injuries in Sport
Kevin Gusiewicz, FACSM. University of North Carolina at Chapel Hill, Chapel Hill, NC.
(No relationships reported)

1873 4:05 PM - 4:30 PM
Sudden Cardiac Arrest and Death among Athletes
Kimberly Harmon, FACSM. University of Washington, Seattle, WA.
Reported Relationships: K. Harmon: Ownership Interest (Stocks, Bonds); stock options 98point6.

1874 4:30 PM - 4:55 PM
Catastrophic Heat and Exertional-Related Conditions among Athletes
Douglas Casa, FACSM. University of Connecticut, Storrs, CT.
(No relationships reported)

4:55 PM - 5:15 PM
Overall Discussion

1875 3:15 PM - 3:30 PM
Chair: Bo Fernhall, FACSM. University of Illinois at Chicago, Chicago, IL.
(No relationships reported)

3:30 PM - 3:45 PM
Differential Responses to Exercise Among Blacks and Whites: Epidemiological Evidence
Peter Kokkinos, FACSM. Veterans Affairs Medical Center, Washington, DC.
(No relationships reported)

3:45 PM - 4:10 PM
Health Disparities in Blood Pressure and Exercise: Post Exercise Hypotension and Exercise Training
Bo Fernhall, FACSM. University of Illinois at Chicago, Chicago, IL.
(No relationships reported)

4:10 PM - 4:35 PM
Differential Responses in Arterial Function between African Americans and Caucasians to Exercise: Implications for Blood Pressure
Shane Phillips. University of Illinois at Chicago, Chicago, IL.
(No relationships reported)
1885 Board #1 3:15 PM - 5:15 PM
Molecular and Cellular Mechanisms for Differential Blood Pressure Responses to Exercise among African Americans and Caucasians
Michael Brown, FACSM. University of Illinois at Chicago, Chicago, IL.
(No relationships reported)
5:00 PM - 5:15 PM
Overall Discussion

D-41 Basic Science World Congress - Thematic Poster - Exercise, Neuroplasticity, and Cognition in Youth
Thursday, June 1, 2017, 3:15 PM - 5:15 PM
Room: 101

1880 Chair: Dawn P. Coe, FACSM. University of Tennessee, Knoxville, TN.
(No relationships reported)

1881 Board #1 3:15 PM - 5:15 PM
Cognitive Performance In Young Adulthood Is Associated With Sport Trajectories From Early Childhood Through Adolescence
Erin K. Howie¹, Romola S. Bucks², Joanne A. McVeigh³, Leon M. Straker³. ¹University of Arkansas, Fayetteville, AR. ²University of Western Australia, Perth, Australia. ³Curtin University, Perth, Australia (Sponsor: Russell Pate, FACSM)
Email: echowie@uark.edu
(No relationships reported)

1882 Board #2 3:15 PM - 5:15 PM
Activity Intensity and School Readiness in Young Children
Tyler J. Kybartas¹, Jennifer I. Flynn², Jeffery T. Fairbrother¹, Sean R. Durham¹, Dawn P. Coe, FACSM.¹University of Tennessee, Knoxville, TN. ²Maryville College, Maryville, TN. ³Auburn University, Auburn, AL.
Email: tylerkkybartas@gmail.com
(No relationships reported)

1883 Board #3 3:15 PM - 5:15 PM
Effects Of Playing Soccer On Executive Function In Children
Shota Sakamoto, Masamitsu Ito, Yuta Uematsu, Masahiro Katagiri, Takeru Gushiken, Kazuhiro Suzukawa. Nippon Sport Science University, Tokyo, Japan.
Email: shota.sakamoto0518@gmail.com
(No relationships reported)

1884 Board #4 3:15 PM - 5:15 PM
Obesity, Visceral Adipose Tissue, And Cognition In Childhood
Lauren Raine¹, Naiman Khan², Eric Drollette³, Matthew Pontifex³, Arthur Kramer¹. ¹Northeastern University, Boston, MA. ²University of Illinois, Urbana, IL. ³Michigan State University, Lansing, MI.
(No relationships reported)

1885 Board #5 3:15 PM - 5:15 PM
An 8 Week Aerobic Exercise Training Intervention Improved Executive Functions in Adolescents
Kimberley Lakes, Fadia Haddad, Kim Lu, Dan Cooper, FACSM, Shlomit Azizik. University of California, Irvine, Irvine, CA. (Sponsor: Dr. Dan Cooper, FACSM)
Email: klakes@uci.edu
(No relationships reported)

1886 Board #6 3:15 PM - 5:15 PM
Prospective Associations Of Cardiorespiratory Fitness, Motor Performance, And Adiposity With Cognition In Children
Eero A. Haapala, Niina Lintu, Juuso Väisäti, Tuomo Tompurri, Anna Viitasalo, Virpi Lindi, Timo A. Lakka. University of Eastern Finland, Kuopio, Finland.
Email: eero.haapala@uef.fi
Reported Relationships: E.A. Haapala: Consulting Fee; Fazer Group.

D-42 Thematic Poster - Biomechanical Effects of Fatigue
Thursday, June 1, 2017, 3:15 PM - 5:15 PM
Room: 403

1889 Chair: Rod Harter, FACSM. Texas State University, San Marcos, TX.
(No relationships reported)

1890 Board #1 3:15 PM - 5:15 PM
The Effect Of Compression Tights On Muscle Vibration And Fatigue From A High-intensity Run
Margaret E. Raabe, 43212, Michael P. McNally, Ajit M.W. Chaudhari, FACSM. The Ohio State University, Columbus, OH. (Sponsor: Ajit Chaudhari, FACSM)
Email: margaret.e.raabe@gmail.com
(No relationships reported)

1891 Board #2 3:15 PM - 5:15 PM
The Influence of Fatigue on Vertical Free Moment and Vertical Moments around the COM in Female Runners With a History of Stress Fractures
William J. McDermott¹, Kristen L. Popp², Camden S. Marshall³, James Walker¹. ¹The Orthopedic Specialty Hospital, Murray, UT. ²WIlliam J. McDermott, FACSM. ³University of Tennessee, Knoxville, TN.
Email: bill.mcdermott@imail.org
(No relationships reported)

1892 Board #3 3:15 PM - 5:15 PM
The Effect of Fatigue on Tibial Acceleration During an Incremental Run
Dimitrios Katsavelis, Ryan Smith, Alex Sikora, Meghan Shea, Joan M. Eckerson, FACSM. Creighton University, Omaha, NE. (Sponsor: Joan M Eckerson, FACSM)
Email: Dimitrios.Katsavelis@creighton.edu
(No relationships reported)
1893  Board #4  3:15 PM - 5:15 PM  Effect of Fatigue on Landing Biomechanics in Soccer Players with an Anterior Cruciate Ligament Reconstruction
Ahmad Alalnazi1, Katy Mitchell2, Toni Roddy3, Alexis Ortiz, FACSM. 1Majmaah University, Majmaah, Saudi Arabia. 2Texas Woman's University, Houston, TX. Email: aalalnazi@twu.edu  (No relationships reported)

1894  Board #5  3:15 PM - 5:15 PM  The Influence of Hamstrings Fatigue on Knee Biomechanics During a Drop Vertical Jump
Stephanie E. Field, Drew Pringle, FACSM, Andrew W. Froehle. Wright State University, Dayton, OH.  (No relationships reported)

1895  Board #6  3:15 PM - 5:15 PM  Effect of Fatigue on Lower Extremity Biomechanics during Repeated Vertical Jumps in College-Aged Females
Jae P. Yom1, Jeff Mettler2, Scott Arnett3, Veronica Sor4, Kathy Simpson, FACSM. 1Ohio University, Athens, OH. 2Iowa State University, Ames, IA. 3Western Kentucky University, Bowling Green, KY. 4University of South Dakota. Vermillion, SD. 5University of Georgia, Athens, GA. (Sponsor: Kathy Simpson, FACSM) Email: yomj@ohio.edu  (No relationships reported)

1896  Board #7  3:15 PM - 5:15 PM  The Effects of Different Fatigue Protocols on Lower Extremity Kinematics and Impact Forces during Landings
Rui Xia, Xini Zhang, Xi Wang, Weijie Fu. Shanghai University of Sport, Shanghai, China. Email: xianiusu@163.com  (No relationships reported)

1897  Board #8  3:15 PM - 5:15 PM  Improved Drop Landing Kinematics and Resistance to Fatigue Following Participation in Two Neuromuscular Training Programs
Nathan Robey1, Luzita L. Velas2, Joni A. Mettler3, Rod A. Harter, FACSM. 1University of Northern Colorado, Greeley, CO. 2University of Texas-Arlington, Arlington, TX. 3Texas State University, San Marcos, TX. (Sponsor: Rod A. Harter, FACSM) Email: nathan.roby@unco.edu  (No relationships reported)

D-43  Thematic Poster - Measurement and Modeling

Thursday, June 1, 2017, 3:15 PM - 5:15 PM
Room: 505

1898  Chair: Stella L. Volpe, FACSM. Drexel University, Philadelphia, PA.  (No relationships reported)

1899  Board #1  3:15 PM - 5:15 PM  Performance Modeling Applied to On Ice Measures of NCAA Div. III Collegiate Ice Hockey Players
Alexandra Martin1, Stephen McGregor1, Adam Coughlin2, Andrea Workman1, Joe Williams1. 1Eastern Michigan University, Ypsilanti, MI. 2 Saginaw Valley State University, University Center, MI. (Sponsor: Mark Peterson, FACSM) Email: amart104@emich.edu  (No relationships reported)

1900  Board #2  3:15 PM - 5:15 PM  Assessing Physical Fitness in PRESchool Children: Fitness Reference Standards From The PREFIT Project
Cristina Cadenas-Sanchez1, Timm Intemann2, Enrique G. Artero3, Mairena Sanchez-Lopez4, Diego Moliner-Urdiales5, Jose Castro-Puigero6, Josep Vidal-Conti4, Joaquin Sanchis-Moysi7, Pedro J. Bentho8, German Vicente-Rodriguez9,10, Marie Lot11, Idoia Labayen12,13, Jonatan R. Ruiz14, Francisco B. Ortega15. 1University of Granada, Granada, Spain. 2Leibniz Institute for Prevention Research and Epidemiology, Bremen, Germany. 3University of Almeria, Almeria, Spain. 4University of Castilla La Mancha, Cuenca, Spain. 5University Jaume I, Castellon de la Plana, Spain. 6University of Malaga, Malaga, Spain. 7University of the Balearic Islands, Balearic Islands, Spain. 8University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain. 9University of Technical University of Madrid, Madrid, Spain. 10University of Zaragoza, Zaragoza, Spain. 11Karolinska Institutet, Huddinge, Sweden. 12University of Basque Country, Vitoria, Spain. Email: cadenas@ugr.es  (No relationships reported)

1901  Board #3  3:15 PM - 5:15 PM  Fitness And Health Assessment And Monitoring Practices Of Fitness Trainers
Jason A. Bennie1, Glen H. Wiensner2, Jannique G.Z van Uffelen1, Jack T. Harvey1, Melinda Craike2, Stuart J.H Biddle1. 1University of Technology Sydney, Australia. 2Victoria University, Melbourne, Australia. 3Federation University, Ballarat, Australia. Email: jason.bennie@vu.edu.au  (No relationships reported)

1902  Board #4  3:15 PM - 5:15 PM  Player Mounted Sensors To Identify Fatigue During Games At USA 15 National Hockey Development Camp
D Stojanov, Andrea Workman, K Martel, Stephen J. McGregor. Eastern Michigan University, Ypsilanti, MI. (Sponsor: Dr. Andrew R. Coggan, FACSM)  (No relationships reported)

1903  Board #5  3:15 PM - 5:15 PM  Submaximal Yo-Yo Test Reliability and Sensitivity in National 7-a-side Squad Preparing for Rio 2016 Paralympics
Sam Ballak, Jesper Cornelissen. Sportcentrum Papendal, Arnhem, Netherlands. Email: sam.ballak@papendal.nl  (No relationships reported)

1904  Board #6  3:15 PM - 5:15 PM  Validation Of The 3-min All-out Exercise Test For Shuttle Running Prescription
Anssi Saari1, Robert Pettit, FACSM2, Nathan Dick2, Mark Hartman1. 1University of Kentucky, Lexington, KY. 2Minnesota State University, Mankato, Mankato, MN. Email: aisa224@g.uky.edu  (No relationships reported)

1905  Board #7  3:15 PM - 5:15 PM  Maximal Oxygen Consumption Predicts Skeletal and Heart Muscle Biomarkers Changes after a Full Distance Ironman
Torn Danielsson, Jörg Carlsson, Patrick Bergman. Linnaeus University, Kalmar, Sweden. Email: tom.danielsson@lnu.se  (No relationships reported)

1906  Board #8  3:15 PM - 5:15 PM  Validity And Reliability Of A Low-cost System To Measure Oxygen Uptake During Submaximal Exercise
Christen J. Mendonca, Jillian L. Hawkins, Sinclair A. Smith. Drexel University, Philadelphia, PA. (Sponsor: Dr. Stella Volpe, FACSM) Email: san86@drexel.edu  (No relationships reported)
### D-44 Thematic Poster - Move More, Sit Less, What's Best?

Thursday, June 1, 2017, 3:15 PM - 5:15 PM  
Room: 304

**Chair: Alpa V. Patel. American Cancer Society, Atlanta, GA.**  
(No relationships reported)

**Board #1**  
3:15 PM - 5:15 PM  
Isotemporal Substitution of Sedentary Behavior and Physical Activity on Functional Performance in Older Adults  
Nicholas L. Lerma, Chi C. Cho, Ann M. Swartz, FACSM, Nora Miller, Kevin G. Keenan, Scott J. Strath, FACSM, University of Wisconsin - Milwaukee, Milwaukee, WI. (Sponsor: Scott Strath, FACSM)  
Email: nlerma@uwm.edu  
(No relationships reported)

**Board #2**  
3:15 PM - 5:15 PM  
Longitudinal Association Between Screen Time And Clustered Metabolic Risk Factors From Adolescence To Young Adulthood  
Yazhuo Deng, Chantal A. Vella, FACSM, David R. Paul, University of Idaho, Moscow, ID. (Sponsor: Chantal A. Vella, FACSM)  
Email: deng9578@dandals.uidaho.edu  
(No relationships reported)

**Board #3**  
3:15 PM - 5:15 PM  
Physical Activity And Sedentary Behavior During The Retirement Transition: The Multi-ethnic Study Of Atherosclerosis (MESA)  
Sydney A. Jones, Quefeng Li, Kelly R. Evenson, FACSM, University of North Carolina - Chapel Hill, Chapel Hill, NC.  
Email: sydneyjones@unc.edu  
(No relationships reported)

**Board #4**  
3:15 PM - 5:15 PM  
Physical Activity And Sitting Time In Relation To Colorectal Cancer Risk, The HUNT-study, Norway  
Vegar Rangul¹, Erik R. Sund¹, Adrian Bauman². 1Norwegian University of Science and Technology, Levanger; Norway. 2University of Sydney, Sydney, Australia.  
Email: vegar.rangul@ntnu.no  
(No relationships reported)

**Board #5**  
3:15 PM - 5:15 PM  
Sedentary Behaviors and Cardiometabolic Risk, an Isotemporal Substitution Analysis  
Kara M. Whitaker¹, Andrew O. Odegaard², Katie C. Carpenter³, David R. Jacobs, Jr.¹, Stephen Sidney⁴, Matthew P. Buman⁵, Mark A. Pereira¹. ¹University of Minnesota, Minneapolis, MN. 2University of California, Irvine, Irvine, CA. 3Native American Community Health Center, Inc., Phoenix, AZ. 4Kaiser Permanente Northern California, Oakland, CA. 5Arizona State University, Phoenix, AZ.  
Email: whitaker@umn.edu  
(No relationships reported)

**Board #6**  
3:15 PM - 5:15 PM  
Reducing Sedentary Behavior to Decrease Low Back Pain: 3-month Results of the Stand Back trial  
Bethany Barone Gibbs, 15261, Andrea L. Hegenroeder, Sophy J. Perdomo, Anthony Delitto, John M. Jakicic, FACSM, University of Pittsburgh, Pittsburgh, PA. (Sponsor: John M Jakicic, FACSM)  
Email: bbarone@pitt.edu  

### D-45 Thematic Poster - Neuromechanics of Ankle Instability

Thursday, June 1, 2017, 3:15 PM - 5:15 PM  
Room: 404

**Chair: Robin Queen, FACSM. Virginia Tech, Blacksburg, VA.**  
(No relationships reported)

**Board #1**  
3:15 PM - 5:15 PM  
Altered Ankle Neuromechanics During Walking In Patients With Chronic Ankle Instability  
Hyunsou Kim¹, S. Jun Son², Jordan Read³, Matthew K. Seeley⁴, J. Ty Hopkins, FACSM⁵. ¹West Chester University, West Chester, PA. ²Brigham Young University, Provo, UT. (Sponsor: J. Ty Hopkins, FACSM)  
Email: hkim@wcupa.edu  
(No relationships reported)

**Board #2**  
3:15 PM - 5:15 PM  
Ankle Muscles Reaction Time During Sudden Inversion In Individuals With Or Without Functional Ankle Instability  
Hong-Kai Lin, Li-Lan Fu. National Taiwan Sport University, Taoyuan City, Taiwan.  
Email: 1040601@ntusu.edu.tw  
(No relationships reported)

**Board #3**  
3:15 PM - 5:15 PM  
Examining Postural Control without Feedback in Individuals with and without Chronic Ankle Instability  
Michelle Fadoo1, Devan Groucla1, Stephanie Manning¹, Erik Wikstrom, FACSM, Jane Freund², Srikanth Vallabhajosula¹. 1Elon University, Elon, NC. 2UNC-CH, Chapel Hill, NC. (Sponsor: Dr. Erik Wikstrom, FACSM)  
Email: mfadoo@elon.edu  
(No relationships reported)

**Board #4**  
3:15 PM - 5:15 PM  
Effect of Rest Intervals during the Star Excursion Balance Test on Postural Control in Individual with Chronic Ankle Instability  
Yongung Kwon¹, D.S. Blaise Williams III, FACSM². ¹Youngstown State University, Youngstown, OH. ²Virginia Commonwealth University, Richmond, VA.  
Email: mugika2@gmail.com  
(No relationships reported)

[www.acsm.org](http://www.acsm.org)
P132 Final Program

1921 Board #5 3:15 PM - 5:15 PM
Age-related Changes in Ankle Proprioception
Nan Yang1, Gordon Waddington1, Roger Adams1, Jia Han2.
1University of Canberra, Canberra, Australia. 2Shanghai University of Sport, Shanghai, China.
Email: Nan.Yang@canberra.edu.au
(No relationships reported)

1922 Board #6 3:15 PM - 5:15 PM
Center Of Pressure Excursion Velocities During Recovery From Total Ankle Arthroplasty
Linden E. Allison1, Evan McConnell1, Robin M. Queen, FACSM2, Douglas W. Powell1. 1University of Memphis, Memphis, TN, 2Virginia Tech University, Blacksburg, VA. (Sponsor: Robin M. Queen, FACSM)
Email: lallison@memphis.edu
(No relationships reported)

1923 Board #7 3:15 PM - 5:15 PM
Neuromuscular Training Alters Preparatory Lower Extremity Muscle Activation and Movement in Subjects with Ankle Instability
J. Ty Hopkins, FACSM1, S. Jun Son1, Hyunsu Kim1, Dustin Bruening1, Matthew K. Seeley1. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA.
Email: tyhopkins@byu.edu
(No relationships reported)

ACSM May 30 – June 3, 2017 Denver, Colorado

D-46 Free Communication/Slide - Concussion
Thursday, June 1, 2017, 3:15 PM - 5:15 PM
Room: 507

1924 Chair: Daniel C. Herman, FACSM. University of Florida, Gainesville, FL.
(No relationships reported)

1925 3:15 PM - 3:30 PM
Effects of Concussion Recovery Phase on Symptom Provocation using Vestibular and Assessments.
Kelly Cheever1, Jane McDevitt1, Andrew Tierney1, W. Geoffrey Wright1. 1Temple University, Philadelphia, PA. 2East Stroudsburg University, East Stroudsburg, PA.
Email: kellycheever@temple.edu
(No relationships reported)

1926 3:30 PM - 3:45 PM
Concussion Induces Temporary Cardiovascular Autonomic Dysfunction
John L. Dobson, Jose Perez. Georgia Southern University, Statesboro, GA.
Email: jdbobson@georgiasouthern.edu
(No relationships reported)

1927 3:45 PM - 4:00 PM
Attenuation of Spontaneous Baroreceptor Sensitivity following Concussion
Michael F. La Fontaine1, Joseph P. Weir, FACSM1. 1Seton Hall University, South Orange, NJ. 2The University of Kansas, Lawrence, KS
Email: michael.lafontaine@shu.edu
(No relationships reported)

1928 4:00 PM - 4:15 PM
The Effect of Exercise Induced Dehydration on SCAT3
Sean Collins1, Thomas Bowman1, Monica Lininger1. 1Lynchburg College, Lynchburg, VA. 2Northern Arizona University, Lynchburg, VA.
Email: collins.sc@lynchburg.edu
(No relationships reported)

ACSM 64th Annual Meeting

1929 4:15 PM - 4:30 PM
The Effectiveness Of Prescribed Rest Depends On Initial Presentation Following Concussion
Anthony P. Kontos1, Alicia S. Sufinko1, Jennifer N. Apps2, Michael McCrea1, Thomas A. Hammeke2, Robert Hickey1, Michael W. Collins3, Danny G. Thomas2. 1University of Pittsburgh, Pittsburgh, PA. 2Medical College of Wisconsin, Milwaukee, WI. (Sponsor: Barb Warren, FACSM)
Email: akontos@pitt.edu
Reported Relationships: A.P. Kontos: Contracted Research - Including Principle Investigator: GE.

1930 4:30 PM - 4:45 PM
Predictors Of Concussive Recovery In Adolescents: The Influence Of Race And Gender
Seeana S. Aggarwal, Summer D. Ott, Nikhil S. Padhye, Janet C. Meinninger, Terri S. Armstrong. The University of Texas Houston Health Science Center, Houston, TX.
Email: seeana.s.aggarwal@uth.tmc.edu
(No relationships reported)

1931 4:45 PM - 5:00 PM
An Examination of Adolescent Athletes and Non-athletes on Baseline Neuropsychological Test Scores
Christopher P. Tomcyaik1, Megan E. Mommole, Tamerah N. Hunt, FACSM, Georgia Southern University, Statesboro, GA.
Email: ct04469@georgiasouthern.edu
(No relationships reported)

1932 5:00 PM - 5:15 PM
Establishment of Normative Clinical Reaction Times in a Pediatric Population
Logan Kelsey, 452291, Paul Gubanich, 452291, Eric Slattery2, Resmi Gupta, 452291. 1Cincinnati Children’s Hospital Medical Center, Cincinnati, OH. 2Miami University, Oxford, OH. (Sponsor: Greg Myer, FACSM)
Email: kelsey.logan@cchmc.org
(No relationships reported)

D-47 Free Communication/Slide - Free-Living Validation Studies
Thursday, June 1, 2017, 3:15 PM - 5:00 PM
Room: 103

1933 Chair: Andrea K. Chorniakstek. Indiana University-Bloomington, Bloomington, IN.
(No relationships reported)

1934 3:15 PM - 3:30 PM
Free-living Total Energy Expenditure Assessed using Three Accelerometer Models Validated against Doubly-Labelled Water
William E. Kraus, FACSM1, Megan A. McCroay2, Manjushri Bhakpar1, Edward P. Weiss1, Corby K. Martin1, James P. Deflancy4, Susan B. Roberts5, Sai K. Das6, Susan B. Racette1. 1Duke Univ. School of Medicine, Durham, NC. 2Boston University, Boston, MA. 3Washington University School of Medicine, St. Louis, MO. 4Pennington Biomedical Research Center, Baton Rouge, LA. 5University of Pittsburgh, Pittsburgh, PA. 6Tufts University, Boston, MA.
Email: william.kraus@duke.edu
(No relationships reported)

1935 3:30 PM - 3:45 PM
Workplace Sedentary Behavior Questionnaire: Validity and Responsiveness to Change
Meynard John L. Toledo1, Sarah Mullen1, Miranda Larouche1, Sarah Rydell1, Mark Pereira2, Matthew Buman, FACSM1. 1Arizona State University, Phoenix, AZ. 2University of Minnesota, Minneapolis, MN. (Sponsor: Matthew P Buman, FACSM)
Email: mltoledo@asu.edu
(No relationships reported)
1944 3:15 PM - 3:35 PM
The Validity of Fitbit Charge in Free Living Conditions
Yang Bai1, Laura Ellingson2, Gregory Welk, FACSM3. 1University of Vermont, Burlington, VT, 2Iowa State University, Ames, IA. (Sponsor: Gregory Welk, FACSM)
Email: Yang.Bai@med.uvm.edu
(No relationships reported)

1945 3:35 PM - 3:55 PM
Cardiopulmonary- Soccer
Email: kaleigh.suh@gmail.com
(No relationships reported)

1946 3:55 PM - 4:15 PM
Cardiovascular Injury-Marathon Running
Stephen Schaaf, Beth Stepanczuk. University of Pittsburgh Medical Center, Pittsburgh, PA.
Email: schaafs@upmc.edu
(No relationships reported)

1947 4:15 PM - 4:35 PM
Dyspnea on Exertion - Former Marathon Runner
Rubria Marines-Price, Andrew R. Tomlinson, Tony G. Babb, FACSM, Benjamin D. Levine, FACSM. Institute for Exercise and Environmental Medicine, Dallas, TX. (Sponsor: Tony G. Babb, FACSM)
Email: rubriamarines-price@texashealth.org
(No relationships reported)

1948 4:35 PM - 4:55 PM
Applying Cardiopulmonary Exercise Testing to the Evaluation of Left Ventricular Function for Patients Ventricular Assist Device Therapy
Jeffrey W. Christle, Kegan J. Moneghetti, Francois Haddad, Dipanjan Banerjee1, Jon Myers, FACSM2, Matthew T. Wheeler1. 1Stanford University; Stanford, CA. 2Palo Alto Veterans Administration Health Care System and Stanford University, Palo Alto, CA. (Sponsor: Jon Myers, FACSM)
Email: christle@stanford.edu
(No relationships reported)

D-49 Clinical Case Slide - Leg
Thursday, June 1, 2017, 3:15 PM - 5:15 PM
Room: 402

1949 Chair: Kentaro Onishi. University of Pittsburgh Medical Center, Pittsburgh, PA. 
(No relationships reported)

1950 Discussant: Terry Nicola, FACSM. UIC Sports Medicine Center, Chicago, IL. 
(No relationships reported)

1951 Discussant: Martin P. Schwellnus, FACSM. University of Pretoria, Pretoria, South Africa. 
(No relationships reported)

1952 3:15 PM - 3:35 PM
Foot Drop in a Cheerleader After a Yoga Pose
Vince St, Melody Hrubes, Terry Nicola, FACSM. University of Illinois at Chicago, Chicago, IL. (Sponsor: Terry Nicola, FACSM)
(No relationships reported)

1953 3:35 PM - 3:55 PM
Lower Leg Injury-Dance
Brittany J. Moore, Karen Newcomer, FACSM, Cara Prideaux. Mayo Clinic, Rochester, MN.
Email: moore.brittany@mayo.edu
(No relationships reported)

1954 3:55 PM - 4:15 PM
A Fibular Hook
Kevin N. Blythe, Bronson E. Delosobera. MedStar Georgetown University Hospital, Washington, DC. 
(No relationships reported)
Hands On Demonstration

THURSDAY, JUNE 1, 2017

1955 4:15 PM - 4:35 PM
Lateral Leg Pain in an Avid Hiker After a Fall
Alyssa M. Neoph, Kentaro Onishi, Suchun G. Ho. University of Pittsburgh Medical Center, Pittsburgh, PA.
(No relationships reported)

1956 4:35 PM - 4:55 PM
Foot Numbness - Basketball: Doc, My Foot Is Numb!
Elizabeth Kaufman, MD, Bronson Elizabeth Delsaobera, MD. Georgetown, Washington, DC.
Email: ekaufman25@gmail.com
(No relationships reported)

1957 4:55 PM - 5:15 PM
A F44 Paralympic Track and Field Discus Thrower: A Case Report
Donald L. Hoover1, David M. Beller2, Lawrence W. Judge. 1Western Kentucky University, Bowling Green, KY. 2University of Louisiana at Lafayette, Lafayette, LA.
(No relationships reported)

D-50 Clinical Case Slide - Shoulder III
Thursday, June 1, 2017, 3:15 PM - 5:15 PM
Room: 504

1958 Chair: David Jewison. University of Minnesota, Minneapolis, MN.
(No relationships reported)

(No relationships reported)

1960 Discussant: Clifton Page. University of Miami, Miami, FL.
(No relationships reported)

1961 3:15 PM - 3:35 PM
Acute Atraumatic Shoulder Pain in a 39 Year Old Female
Sheila E. Taylor, Wellspan Sports Medicine, York, PA. (Sponsor: Mark Lavallee, FACSMD)
Email: shelle.e.taylor@gmail.com
(No relationships reported)

1962 3:35 PM - 3:55 PM
A Collapse that Led to Shoulder Pain
Michael Seifert, Krystian Bigosinski. Maine Medical Center, Portland, ME. (Sponsor: Heather Gillespie, FACSMD)
Email: mseifert@mmc.org
(No relationships reported)

1963 3:55 PM - 4:15 PM
Shoulder Pain - Recreational Basketball
Julian D. Willoughby, Daniel Blatz. Rehabilitation Institute of Chicago, Chicago, IL. (Sponsor: Joseph IHN, MD, FACSMD)
(No relationships reported)

1964 4:15 PM - 4:35 PM
Shoulder Injury- Snowboarding
Kelsey Hoffman. RiverStone Health, Billings, MT.
Email: kelsey.hof@riverstonehealth.org
(No relationships reported)

1965 4:35 PM - 4:55 PM
Shoulder Injury- Rugby, Progressive Shoulder Pain After Fall
Shane L. Larson1, Caitlin M. Colinti2, Lance LeClere3. 1Womack Army Medical Center, Fort Bragg, NC. 2US Naval Academy; Annapolis, MD. (Sponsor: Francis O’Connor, FACSMD)
Email: Shanel.larson@gmail.com
(No relationships reported)

ACSM 64th Annual Meeting

1966 4:55 PM - 5:15 PM
Arm Pain - Baseball
Peter L. Hoth. University of Iowa, Iowa City, IA.
Email: peter-hoth@uiowa.edu
(No relationships reported)

D-51 Tutorial Lecture - Motoring with the MoTrPAC: Update on NIH’s Molecular Transducers of Physical Activity Consortium
Thursday, June 1, 2017, 3:15 PM - 4:05 PM
Room: 607

In December 2016, the 22 centers that will make up NIH’s Molecular Transducers of Physical Activity Consortium (MoTrPAC) were funded. MoTrPAC’s goal is to identify and functionalize the molecular transducers that are responsible for physiological adaptation to exercise. This tutorial lecture will consist of updates from the MoTrPAC Steering Committee, Human Clinical, and Animal Preclinical Centers. The goal of this session is to keep the ACSM membership engaged in the MoTrPAC process, as well as providing insight into NIH’s efforts to fund and encourage exercise science research.

(No relationships reported)

1968 Karyn A. Esser, FACSM. University of Florida, Gainesville, FL.
(No relationships reported)

1969 Wendy M. Kohrt, FACSM. University of Colorado Denver, Denver, CO.
Reported Relationships: W.M. Kohrt: Contracted Research - Including Principle Investigator; NIH support related to this research.

1970 Marcos M. Banman, FACSMD. University of Alabama at Birmingham, Birmingham, AL.
(No relationships reported)

1971 John M. Jakicic, FACSMD. University of Pittsburgh, Pittsburgh, PA.
Reported Relationships: J.M. Jakicic: Consulting Fee; Scientific Advisory Board for Weight Watchers International; Contracted Research - Including Principle Investigator; NIH support related to this research.

D-52 Tutorial Lecture - Respiratory Symptoms in Athletes - State of the Art
Thursday, June 1, 2017, 3:15 PM - 4:05 PM
Room: 603

Respiratory symptoms are very common in athletes and significantly impact on health and performance. Over the past 5 years there has been significant advances in our understanding of the causes and treatment of respiratory problems in athletic individuals. This symposium presents a state of the art review in the field.

1972 James Hull. Royal Brompton Hospital, London, United Kingdom.
(No relationships reported)

(No relationships reported)

1974 John Dickinson. University of Kent, Chatham Maritime, United Kingdom.
(No relationships reported)

D-53 Clinical Workshop-Hands On Demonstration - Physical Exam of the Lumbar Spine
Thursday, June 1, 2017, 3:15 PM - 4:05 PM
Room: 501

This session will demonstrate beginning and advanced methods to assist in determining the source of pain from a lumbar spine disorder. Part of the session will discuss potential sources of pain around the lumbar spine and how a patient’s history may assist in determining the source of pain. The majority of the session will be spent...
American College of Sports Medicine

going through the physical exam of the lumbar spine and how findings on exam help to determine the source of pain and appropriate solutions for treating the pain. Also, part of the treatment plan will be discussed as it relates to findings on physical exam.  

1975  Joseph Ihm, FACSM. Rehabilitation Institute of Chicago, Chicago, IL.  
(No relationships reported)  
1976  Samuel Chu. Rehabilitation Institute of Chicago, Chicago, IL.  
(No relationships reported)

D-54  Tutorial Lecture - Using Twitter to Advance Science and Your Career  
Thursday, June 1, 2017, 3:15 PM - 4:05 PM  
Room: Hotel-Centennial Ballroom F

Using Twitter to Advance Science and Your Career will focus specifically on this dominate social media platform that has dramatically shaped communications, culture and influence. Session Goals: 1. Provide attendees with guidance on how to ramp-up their Twitter activation. From beginner to moderately experienced. 2. Help build your personal/professional social media brand and promote your research/work. Learn how to use Twitter to advance science and protect its integrity.

1977  Kathryn H. Schmitz, FACSM. Penn State Cancer Institute, Hershey, PA.  
(No relationships reported)  
1978  Caitlin Kinser. American College of Sports Medicine, Indianapolis, IN.  
(No relationships reported)  
1979  Shawn M. Arent, FACSM. Rutgers University, New Brunswick, NJ.  
Reported Relationships: S.M. Arent: Consulting Fee; Quest Diagnostics. Contracted Research - Including Principle Investigator; Quest Diagnostics, Compound Solutions.  
1980  Carol Ewing Garber, FACSM. Columbia University, New York, NY.  
(No relationships reported)

D-55  Exchange Lecture - AOSSM Exchange Lecture - Factors Affecting Surgical Outcomes after ACL Reconstruction: What we have learned from the Kaiser Permanente ACL Registry  
Thursday, June 1, 2017, 4:25 PM - 5:15 PM  
Room: 603

1981  Gregory Maletis. Kaiser Permanente Hospital, Baldwin Park, CA.  
(No relationships reported)

D-56  Tutorial Lecture - What is the Appropriate Age to Begin Contact Sports?  
Thursday, June 1, 2017, 4:25 PM - 5:15 PM  
Room: 607

The goal of this session is to review the science behind injuries in youth contact sports (including American football, rugby, men’s lacrosse and hockey). In addition we will review the policies from various organizations regarding the appropriate age to begin contact in each of these sports. We will also review data that has been obtained following the initiation of these policies.

1982  Andrew Gregory, FACSM. Vanderbilt University, Nashville, TN.  
(No relationships reported)  
1983  M. Alison Brooks. University of Wisconsin, Madison, WI.  
1990 Board #3 2:00 PM - 3:30 PM
Effect Of Strength Training On “excess” VO2 In Older Adults
Giorgia Spigolon, Alessandro L. Colosio, Federico Y. Fontana, Silvia Pogliaghi, FACSM. University of Verona, Verona, Italy.
Email: spigolongiorgia@gmail.com
(No relationships reported)

1991 Board #4 2:00 PM - 3:30 PM
Effects Of Long-term Elastic Resistance Training On Oxidative Damage Of DNA In Older Adults
Phil Page, FACSM1, Juan C. Colado2, Guillermo Sacz2, Pedro Gargallo2, Amaya Hernando3, Nuria Estañ3, Alvaro Juesas2, Victor Muñoz2, Victor Tellas2, Michael E. Rogers, FACSM3; 1Louisiana State University, Baton Rouge, LA; 2University of Valencia, Valencia, Spain; 3University Hospital De Pese, Valencia, Spain. 4Wichita State University, Wichita, KS.
(No relationships reported)

1992 Board #5 2:00 PM - 3:30 PM
Dynamic Postural Control and Hip Abductor Muscle Performance Following a 12-week Introductory Golf Program
Andrea M. Du Bois, Nicole Marcione, George J. Sulem, FACSM. University of Southern California, Los Angeles, CA.
Email: amdubois@usc.edu
(No relationships reported)

1993 Board #6 2:00 PM - 3:30 PM
Analysis of Aquatic Training Program In Water On Functional Parameters Of Elderly Women
JHON F. RAMIREZ1, Laura Lorena Cadena-Duarte2, Adriana Rocío Gutierrez-Galvis3, José E. Zaa4, Rodrigo Esteban Argothy Bueheli4; 1University of Antioquia, Medellín, Colombia; 2Santo Tomás University, Bogotá, Colombia; 3Manuela Beltran University, Bogotá, Colombia; 4University of Santo Tomás, Bogotá, Colombia. 5University of Antioquia, BOGOTA, Colombia.
Email: jhonramirezvillada@gmail.com
(No relationships reported)

1994 Board #7 2:00 PM - 3:30 PM
Effects of Exercise Intervention on Falls Risk Score in Aging Adults with History of Falling
Jessica Pope1, Shane Caswell1, Amanda Estep1, Jatin Ambegaonkar1, Oladipo Eddo2, Steven Morrison2, Nelson Cortes2, 1George Mason University, Manassas, VA; 2Old Dominion University, Norfolk, VA.
(No relationships reported)

1995 Board #8 2:00 PM - 3:30 PM
Preliminary Analysis: Effects Of An Intervention Program In Aging Adults With History Of Falling
Mariel Crawford1, Shane Caswell1, Amanda Estep1, Jatin Ambegaonkar1, Oladipo Eddo2, Steve Morrison2, Nelson Cortes2, 1George Mason University, Manassas, VA; 2Old Dominion University, Norfolk, VA.
(No relationships reported)

1996 Board #9 2:00 PM - 3:30 PM
Effects of Resistance Training on Health Related Fitness In Elderly People
Sasa Vuk, Neven Corak. Faculty of Kinesiology, University of Zagreb, Zagreb, Croatia.
Email: sasa.vuk@kf.hr
(No relationships reported)

1997 Board #10 2:00 PM - 3:30 PM
Intervention Study On The Exercise Order Of Combined Aerobic & Resistance Training In The Elderly
Yoko Shiotsu, Masahiko Yanagita. Doshisha University, Kyoto, Japan.
Email: ehp0003@mail4.doshisha.ac.jp
(No relationships reported)
The Effect of Legislation on Concussion Management and Return-to-Play Policies in High Schools
Amanda Esquivel1, Alexandra Dupua2. 1University of Michigan - Dearborn, Dearborn, MI. 2University of Maryland Baltimore County, Baltimore, MD.

Email: aoe@umich.edu
(No relationships reported)
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<th>P138 Final Program</th>
<th>ACSM 64th Annual Meeting</th>
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<td>2019 Board #32 2:00 PM - 3:30 PM Understanding the Motivational Strategies Used by Exercise Professionals: A Latent Profile Analysis Approach Marlene N. Silva1, David Sánchez-Oliva2, Pedro J. Teixeira1, Antonio L. Palmeira1, 1Faculty of Human kinetics, University of Lisbon; Faculty of Sports and Physical Education, Luísfoña University, Lisbon, Portugal. 2University of Extremadura, Spain. Extremadura, Spain. 1Faculty of Human kinetics, University of Lisbon, Lisbon, Portugal. Email: <a href="mailto:mnsilva@fih.uniloboa.pt">mnsilva@fih.uniloboa.pt</a> (No relationships reported)</td>
<td>2028 Board #41 2:00 PM - 3:30 PM Cross-sectional And Longitudinal Correlates Of Leisure Time Physical Activity: The Tromso Study 1979-2008 Bente Morseth, Bjarke N. Jacobsen, Nina Emaus, Tom Wilskaard, Lone Jeronsen. UiT The Arctic University of Norway, Tromso, Norway. Email: <a href="mailto:bente.morseth@uit.no">bente.morseth@uit.no</a> Reported Relationships: B. Morseth: Honorarium; Lecture fee from Pfizer.</td>
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<td>2020 Board #33 2:00 PM - 3:30 PM Motivational Correlates of Physical Activity among Adults With Type 2 Diabetes Anjalyln M. Davis, Rebecca Ellis. Georgia State University, Atlanta, GA. Email: <a href="mailto:adavis93@gsu.edu">adavis93@gsu.edu</a> (No relationships reported)</td>
<td>2029 Board #42 2:00 PM - 3:30 PM At-risk Preschoolers’ Perceived Physical Competence and Observed Fundamental Movement Skills Jimikeye B. Courtney1, Susan L. Johnson2, Kaigang Li3, Laura L. Bellows1. 1Colorado State University, Fort Collins, CO. 2University of Colorado-Colorado Medica Campus, Aurora, CO. Email: jimikeye <a href="mailto:beck@colostate.edu">beck@colostate.edu</a> (No relationships reported)</td>
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<td>2021 Board #34 2:00 PM - 3:30 PM Processes Of Change Used To Fulfill With The Recommendations Of Healthy Practice Of Acsm Maria Marentes Castillo1, Jorge Zamarripa1, Manuel De la Cruz2, Samantha Medina-Villanueva2, José A. Pérez-Garcia3. 1Universidad Autónoma de Nuevo León, Nuevo León, Mexico. 3Universidad Autonoma de Nuevo León, Nuevo León, Mexico. Email: <a href="mailto:jorge.zamarripa@uanl.edu.mx">jorge.zamarripa@uanl.edu.mx</a> (No relationships reported)</td>
<td>2030 Board #43 2:00 PM - 3:30 PM Types Of Leisure, Leisure Motivation, And Well-being In University Students With An Empathais On Physical Activity Jong-Ho Kim1, Stephen Brown2, Heewon Yang3. 1Temple University, Philadelphia, PA. 2Sam Huston State University, Huntsville, TX. 3California State University, University Long Beach, CA. Email: <a href="mailto:jong-ho.kim@temple.edu">jong-ho.kim@temple.edu</a> (No relationships reported)</td>
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<td>2022 Board #35 2:00 PM - 3:30 PM An Integrative Perspective of Validating a Simplified Chinese Version Behavioral Regulation in Exercise Questionnaire-2 Jun Dai1, Han Chen2. 1Shanghai University of Sport, Shanghai, China. 2Valdosta State University, Valdosta, GA. (No relationships reported)</td>
<td>2031 Board #44 2:00 PM - 3:30 PM Affective Associations as Predictors of Physical Activity in Cancer Survivors Joanna Tran1, Emily Van Wassenhove2, Ashley Murray3, Adrienne Boczn1, Debra Boardley1, Andrew Goers1, Rachel Mahas2, Ryan Schropp1, Jessica Maras1. 1University of Toledo, Toledo, OH. 2Madonna University, Livonia, MI. (No relationships reported)</td>
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<td>2023 Board #36 2:00 PM - 3:30 PM Behavioral Processes For Healthy Exercise According To The ACSM Through The Stages of Change Manuel F. De la cruz1, Jorge I. Zamarripa2, Rene Rodriguez2, Maria S. Marentes3, Samantha Medina-Villanueva1. 1Universidad Autonoma de Nuevo León, Nuevo León, Mexico. 2Universidad Autonoma de Nuevo Leon, San Nicolás de los Garza, Mexico. Email: <a href="mailto:manuellaelacruz33@gmail.com">manuellaelacruz33@gmail.com</a> (No relationships reported)</td>
<td>2032 Board #45 2:00 PM - 3:30 PM Weight Training and Self Determined Motivation: A Longitudinal Analysis of Previously Untrained, Sedentary Women Jacob Havenar. University of San Francisco, San Francisco, CA. Email: <a href="mailto:jmhavenar@usfca.edu">jmhavenar@usfca.edu</a> (No relationships reported)</td>
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<td>2024 Board #37 2:00 PM - 3:30 PM Exercise Dependence, Affect, And Preferred Weight Of Female Exercisers David A. Tobar, Brett C. Holcomb, Bonnie G. Berger. Bowling Green State University, Bowling Green, OH. Email: <a href="mailto:dtobar@bgusu.edu">dtobar@bgusu.edu</a> (No relationships reported)</td>
<td>2033 Board #46 2:00 PM - 3:30 PM Effects of External Stimuli on Exercise Engagement in College Females Adam Lomenick. Baker University, Baldwin City, KS. (No relationships reported)</td>
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<td>2025 Board #38 2:00 PM - 3:30 PM The Effects Of Playing Pokemon Go on Physical Activity and Lifestyle Changes Nicole L. Whalen, Sadie Timms, Casey Reisen, Calvin A. Busby, Katie M. Smith. Simpson College, Indiana, IA. (No relationships reported)</td>
<td>2034 Board #47 2:00 PM - 3:30 PM Sustainable Healthy Commuting: Environmental Factors Associated With Bicycling And Walking Among Danish Students. Oline Anita Bjorklund1, Fredrik N. Christiansen1, Anders K. Jensen1, Christian J. Cass1, Catrine R. Andersen1, Maiken Bille1, Eline Berte2. 1Aalborg University, Aalborg, Denmark. 2University of Aysler, Kristiansand, Norway. Email: <a href="mailto:oline@bst.uau.dk">oline@bst.uau.dk</a> (No relationships reported)</td>
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<td>2026 Board #39 2:00 PM - 3:30 PM Sources Of Competition Stress Among Elite Tennis Players In ITF Women’s Circuit Xiangfeng Xu, Huadong Shen, Jianjun Peng. Wuhan Sports University, Wuhan, China. (No relationships reported)</td>
<td>2035 Board #48 2:00 PM - 3:30 PM Personality And Motivational Profile Of Participants Adherent And Non-adherent To An Exercise Program Marco T. Mello, 31400201. Joao P. Rosa1, Aluay A. de Souza2, Giscard H O Lima2, Dayane F. Rodrigues1. 1Federal University of Minas Gerais - UFMG, Belo Horizonte, Brazil. 2Federal University of Sao Paulo - UNIFESP, Sao Paulo, Brazil. Email: <a href="mailto:tmello@demello.net.br">tmello@demello.net.br</a> (No relationships reported)</td>
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<td>2027 Board #40 2:00 PM - 3:30 PM Exploring the Relationship Among Physical Fitness Level, Social Norm Perceptions and PA Intention Suzanne L. McDonough, Keith D. Randazzo, M Christopher Washam. Mississippi College, Clinton, MS. Email: <a href="mailto:smdownou@mc.edu">smdownou@mc.edu</a> (No relationships reported)</td>
<td>2029 Board #42 2:00 PM - 3:30 PM At-risk Preschoolers’ Perceived Physical Competence and Observed Fundamental Movement Skills Jimikeye B. Courtney1, Susan L. Johnson2, Kaigang Li3, Laura L. Bellows1. 1Colorado State University, Fort Collins, CO. 2University of Colorado-Colorado Medica Campus, Aurora, CO. Email: jimikeye <a href="mailto:beck@colostate.edu">beck@colostate.edu</a> (No relationships reported)</td>
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</tbody>
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2051 Board #64 2:00 PM - 3:30 PM
Is Playing PokéMon Go Associated With Increased Walking Behavior?
Zi Yan, Kayla Breton, Kevin Finn, Rachel Millerick. Merrimack College, North Andover, MA. (Sponsor: Kyle McInnis, FACSM)
Email: yanz@merrimack.edu
(No relationships reported)

2052 Board #65 2:00 PM - 3:30 PM
Comparative Influence of Exercise Self-efficacy and Physical Activity on Depression in Older Adults
Lindsay M. Tyree, Kelsey D. Loss, Kelsey L. Owens, Victoria E. Warren, Thelma S. Horn, Kyle L. Timmerman. Miami University, Oxford, OH. (Sponsor: Helaine Alessio, FACSM)
Email: tyrelm@miamioh.edu
(No relationships reported)

2053 Board #66 2:00 PM - 3:30 PM
Perceived Barriers to Physical Activity among Latino Caregivers
Isabela G. Marques, Guilherme M. Balbim, Melissa Magallanes, Judith S. Rocha, David X. Marquez, FACSM. University of Illinois at Chicago, Chicago, IL. (Sponsor: David X. Marquez, FACSM)
(No relationships reported)

2054 Board #67 2:00 PM - 3:30 PM
Exercise Preference Mode Related to Trait Anxiety in College Students
Kaitlyn E. Carmichael, Gene L. Farren, Paul E. Yeats, Tsu Lun Chu, Mitch Barton, Scott B. Martin, FACSM. University of North Texas, Denton, TX. (Sponsor: Dr. Scott B. Martin, FACSM)
(No relationships reported)

2055 Board #68 2:00 PM - 3:30 PM
The Relationship Between Motivational Factors And High Intensity Functional Training (HIIT)
Angelina Micalizzi, Ashston Matson, Allyson Box, Chris Brown, Katie Heinrich, Yuri Feito, FACSM. Kennesaw State University, Kennesaw, GA. Kansas State University, Manhattan, KS. (Sponsor: Yuri Feito, FACSM)
(No relationships reported)

2056 Board #69 2:00 PM - 3:30 PM
Correlates of Chinese College Student’s Physical Activity Behavior: A Social Ecological Model Perspective
Meirong Huang, Haichun Sun. University of South Florida, Tampa, FL. (Sponsor: Zan Gao, FACSM)
Email: 411462089@qq.com
(No relationships reported)

2057 Board #70 2:00 PM - 3:30 PM
Does Experience Matter? Enjoyment Of High Intensity Interval Exercise With Respect To Exercise History
Daniel R. Greene, Steven J. Petruzzello, FACSM. University of Illinois at Urbana-Champaign, Urbana, IL. (Sponsor: Steven J. Petruzzello, FACSM)
Email: dgreene2@illinois.edu
(No relationships reported)

2058 Board #71 2:00 PM - 3:30 PM
The Physical, Psychological, and Behavioral Impact of Undergraduate Physical Education Courses Varies by Course Content
Zack Papalia, Melissa Bopp, FACSM, Michele Duffey. Pennsylvania State University, University Park, PA. (Sponsor: Melissa Bopp, PhD, FACSM)
Email: zyp5003@psu.edu
(No relationships reported)

2059 Board #72 2:00 PM - 3:30 PM
Relations between Basic Psychological Needs and Health-Related Fitness Measures in Male and Female College Students
Veen H. Korjala, Paul E. Yates, Tsu Lun Chu, Gene L. Farren, Scott B. Martin, FACSM. University of North Texas, Denton, TX. (Sponsor: Dr. Scott B. Martin, FACSM)
Email: veena.korjala@unt.edu
(No relationships reported)

2060 Board #73 2:00 PM - 3:30 PM
Comparing BMI With Health Related Quality Of Life In College Freshmen: The Herd Study
Lauren Bartoldson. Marshall University, Martinsburg, WV.
Email: laurbartoldson@outlook.com
(No relationships reported)

2061 Board #74 2:00 PM - 3:30 PM
Cancer Survivors’ Experiences Of Physical Activity: Exercise As A Vehicle For Recovery?
Email: mairead.cooney4@mail.dcu.ie
(No relationships reported)

2062 Board #75 3:30 PM - 5:00 PM
Effects of Beetroot Juice Supplementation and Hypoxia on Time Trial Performance in Well-Trained Cyclists
Torben Rolkedal Lausch, Ryan Godsk Larsen, Mathias Krogh Poulsen, Dan Karbing, Lars Pilegaard Thomsen, Jesper Franche. Aalborg University, Aalborg, Denmark.
Email: Torben@hst.aau.dk
(No relationships reported)

2063 Board #76 3:30 PM - 5:00 PM
A Single Night of Sleep Restriction Following Heavy Exercise Impairs Next-Morning 3-km Cycling Performance
John D. Chase, Paul A. Roberson, Michael J. Saunders, Trent A. Hargens, FACSM, Christopher J. Wormack, FACSM, Nicholas D. Ludden. James Madison University, Harrisonburg, VA.
(No relationships reported)

2064 Board #77 3:30 PM - 5:00 PM
Validity of a Novel Staged Exercise Test for Measuring Maximal Steady State Lactate In Recreational Cyclist Using the Lactate Plus Analyzer(R)
Jacob Harp, Max Sanderford, Joe Gillespie, Jennifer Blevins-McNaughton. Tarleton State University, Stephenville, TX.
Email: jblevins@tarleton.edu
(No relationships reported)

2065 Board #78 3:30 PM - 5:00 PM
High-intensity Cycling Intervals Are Prescribed Accurately Using The 3-min All-out Exercise Test
Nathan D. Dicks, Zachery A. Roloff, Luke M. Krynski, Robert W. Pettitt. FACSM. University of Minnesota, Minneapolis, MN. (Sponsor: Robert Pettitt, FACSM)
Email: nathan.dicks@umn.edu
(No relationships reported)
2066 Board #79 3:30 PM - 5:00 PM
Difference Of Anaerobic Capacity, Muscle Activity Of Lower Extremities In Win-gate Test According To Events Of Cyclists
Da-Woon Park, Moo-Yeop Ji, Shun-Zhe Piao, Dong-Woo Kim, Tae-Yeon Kim, Deuk-Su Park, Hyeong-Jun Park, Jae-Keun Oh. Korea National Sport University, Seoul, Korea, Republic of.
(No relationships reported)

2067 Board #80 3:30 PM - 5:00 PM
Preliminary Examination Of Stamina Sensor Device With Laboratory Testing Measures In Recreationally Trained Cyclists
Robert Blaisdell, Nicholas Fiolo, Kiimtate Sato. East Tennessee State University, Johnson City, TN.
Email: blaisdell@etsu.edu
(No relationships reported)

2068 Board #81 3:30 PM - 5:00 PM
The Impact Of Cycling Cadence On Oxygen Consumption During Maximal & Submaximal Exercise
Enda E. Murphy, Javier J. Monedero, Donal J. O’Gorman. Dublin City University, Dublin, Ireland.
Email: enda.murphy@dcu.ie
(No relationships reported)

2069 Board #82 3:30 PM - 5:00 PM
Adding Video Games or Music Videos to Stationary Cycling: Effects on Exercise Enjoyment.
Shawn R. Reich, James R. Whitehead, FACS, John S. Fitzgerald, tanis J. Hastmann-Walch. The University of North Dakota, Grand Forks, ND. (Sponsor: Dr. James R. Whitehead, FACS)
Email: shawn.reich@ad.ndus.edu
(No relationships reported)

2070 Board #83 3:30 PM - 5:00 PM
The Effect Of Typical Power Variation on Cycle Time-trial Performance
Marc S. Wells, Simon Marwood. Liverpool Hope University, Liverpool, United Kingdom.
Email: wellsm@hope.ac.uk
(No relationships reported)

2071 Board #84 3:30 PM - 5:00 PM
Relationships Between A Smartphone Stamina App With The Performance And Physiological Responses To Cycling
Nicholas Fiolo, Robert Blaisdell, Kimitake Sato. East Tennessee State University, Johnson City, TN.
Email: fiolo@etsu.edu
(No relationships reported)

2072 Board #85 3:30 PM - 5:00 PM
Time Deception Affects Performance But Not Metabolic Variables In Cyclists
Mateus Leite1, Joelma Donadio2, Alexander J Koch1, Dailson Paulucio1, Marco Machado1. 1Laboratory of Physiology and Biokinetiks, UNIG Campus V, Iaperuna, RJ, Brazil. 2Laboratory of Physiology and Biokinetiks, UNIG Campus V, Iaperuna, RJ, Brazil.
Email: fiolo@etsu.edu
(No relationships reported)

2073 Board #86 3:30 PM - 5:00 PM
The Effect Of Acute Versus Accumulated Soccer Training On Postprandial Dismetabolism
Darren J. Paul1, George P. Naessic2, Jens Bangsbo1. 1Aspetar Sports Medicine and Orthopaedic Hospital, Doha, Qatar. 2University of Copenhagen, Copenhagen, Denmark.
(No relationships reported)

2074 Board #87 3:30 PM - 5:00 PM
Iron Deficiency And Physical Performance In Elite Female Soccer Players
Claudia A. Perez, Centro de alto rendimiento de Chile. Hospital de Carabineros de Chile, Santiago, Chile. (Sponsor: Stella Volpe, FACS)
Email: claudiaperezmd@gmail.com
(No relationships reported)

2075 Board #88 3:30 PM - 5:00 PM
Regulatory Fit: Impact On Anxiety, Arousal, And Performance In College-level Soccer Players
Brianna Leitzelar, Lindsey Blom, Jocelyn Bollin, Justin Guilkey, Anthony Mahon. Ball State University, Muncie, IN.
(No relationships reported)

2076 Board #89 3:30 PM - 5:00 PM
Readiness To Perform, Sprint Ability, And Reaction Time Following A 2-hour Nap In Soccer Players.
Georgia Romyn1, Michele Lastella1, Nathan G. Versey2, Gregory D. Roach1, Charli Sargent1. 1Central Queensland University, Adelaide, Australia. 2Australian Institute of Sport, Bruce, Australia.
Email: Georgia.Romyn@ausport.gov.au
(No relationships reported)

2077 Board #90 3:30 PM - 5:00 PM
Physiological Variables to Detect Training Distress in Collegiate Soccer Players
Email: h_bettencourt@u.pacific.edu
(No relationships reported)

2078 Board #91 3:30 PM - 5:00 PM
Workload, Energy Expenditure, and Biomarker Differences in Division 1 Male and Female Soccer Players
Alan J. Walker, 08901, Bridget A. McFadden, David J. Sanders, Morgan L. Hofucker, Marissa L. Bello, Anthony N. Poyssick, Nick S. Mackowski, Chris E. Ordway, Brittany N. Bozzini, Shawn M. Arent, FACS, Rutgers University, New Brunswick, NJ (Sponsor: Shawn Arent, FACS)
Email: alanwalk12@gmail.com
(No relationships reported)

2079 Board #92 3:30 PM - 5:00 PM
Biomarkers of Endocrine, Muscle, and Inflammatory Health Track Training Load of a Collegiate Soccer Season
Robert A. Huggins1, Ryan M. Curtis1, Andrea R. Fortunati1, Maren S. Fraga1, Matthew L. Hall1, Elaine C. Lee1, David P. Looney1, Chris A. West4, Douglas J. Casa, FACS, 1Korey Stringer Institute, University of Connecticut, Storrs, CT. 2Quest Diagnostics Inc., Madison, NJ. 3UCONN Health, Storrs, CT. 4University of Connecticut, Storrs, CT.
Email: robert.huggins@uconn.edu
Reported Relationships: R.A. Huggins: Consulting Fee; Quest Diagnostics Inc.

2080 Board #93 3:30 PM - 5:00 PM
Monitoring Markers of Nutrition Status Throughout a Collegiate Soccer Season
Courtney L. Benjamin1, Robert A. Huggins1, Ryan M. Curtis1, Andrea R. Fortunati1, Maren S. Fraga1, Mathew L. Hall1, Elaine C. Lee1, David P. Looney1, Chris A. West4, Douglas J. Casa, FACS, 1Korey Stringer Institute, University of Connecticut, Storrs, CT. 2Quest Diagnostics, Madison, NJ. 3UConn Health, Storrs, CT. 4University of Connecticut, Storrs, CT.
Email: courteney.mincy@uconn.edu
(No relationships reported)
2081 Board #94 3:30 PM - 5:00 PM
Inspiratory Performance is Significantly Related to Isokinetic Knee Power in Collegiate Women Soccer Players
Lawrence P. Cahalin, Nicholas H. Dibble, Tiffany J. Kasa, Robert O. Poliszuk, Rebecca M. Jones, Jagnhit Dhill, Ian Scott, Leah Vertullo, Lesley-Anne King, Jeffrey T. Ruiz, Magno F. Formiga, Luis A. Feigenbaum, Michael G. Baraga. University of Miami, Miami, FL. (Sponsor: Dr. Thomas Best, FACSM)
Email: lcahalin@miami.edu
(No relationships reported)

2082 Board #95 3:30 PM - 5:00 PM
Starters and Non-Starters Require Separate Load Monitoring and Analyses Throughout a Collegiate Soccer Season
Email: ryan.curtis@uconn.edu
(No relationships reported)

2083 Board #96 3:30 PM - 5:00 PM
Comparison between Anthropometry and Bioelectrical Impedance in Estimating Fat and Muscle Masses in Soccer Players
Email: cardiologia@deportes.gov.ar
(No relationships reported)

2084 Board #97 3:30 PM - 5:00 PM
FIFA 11+ Warm-up: Effects On Movement Control And Performance In Young Female Soccer Athletes
Joanne L. Parsons1, Haley Stenberg2, Joanne Carswell2. 1University of Manitoba, Winnipeg, MB, Canada. 2Vista Place Physiotherapy and Sports Injury Centre, Winnipeg, MB, Canada.
(No relationships reported)

2085 Board #98 3:30 PM - 5:00 PM
Implication Of Dynamic Balance In Change Of Direction Performance In Young Elite Soccer Players Is Angle Dependent?
Monemo Haddad1, Mehdi Rosissi2, Nicola Luigi Bragazzi2, Adam L. Owen1, Moktar Chitra2, Karim Chamarri1. 1Qatar University, Doha, Qatar. 2High Institute of Sport and Physical Education, Ksar Saïd. Tunisia, Tunisie, Tunisia, Tunisia. 3School of Public Health, Department of Health Sciences (DISSAL), University of Genoa. Genoa 16132, Italy, Genova, Italy. 4Servette Centre for Football Research (SCFR), Servette Football Club, Geneva, Switzerland, Geneva, Switzerland.
Email: maly@ftvs.cuni.cz
(No relationships reported)

2086 Board #99 3:30 PM - 5:00 PM
Relationship Between Physiological Load, Body Composition, And Performance Across Season In Female Soccer Athletes
Angela S. Bruzina, Abigail Pearis, Robert Mangine, Kimberly Hasselfeld, John P. Detherage, Ill. University of Cincinnati, Cincinnati, OH. (Sponsor: Jon Divine, FACSM)
(No relationships reported)

2087 Board #100 3:30 PM - 5:00 PM
The Effect of a Concurrent Strength and Conditioning Program in Female Soccer Players
(No relationships reported)

ACSM 64th Annual Meeting

2088 Board #101 3:30 PM - 5:00 PM
Physiological Performance Measures in Female Collegiate Soccer Players
John C. Young, FACSM, James W. Navalta, FACSM, Tori M. Stone, Jeffrey Montes. University of Nevada, Las Vegas, Las Vegas, NV. (No relationships reported)

2089 Board #102 3:30 PM - 5:00 PM
Effect of Ages and Jump Types on Lower Limb Explosiveness in Elite Female Soccer Players
Frantisek Zahalka1, Tomas Maly1, Dai Sugimoto2, Lucia Mala1. 1Charles University, FFES, Prague, Czech Republic. 2-Boston Children’s Hospital, 3-The Micheli Center for Sports Injury Prevention. 2-Boston, 3-Waltham, MA.
Email: zahalka@fvs.cuni.cz
(No relationships reported)

2090 Board #103 3:30 PM - 5:00 PM
The Lower Extremity Strength, Bilateral And Ipsilateral Strength Assymetries In Elite Female Soccer Players
Tomas Maly1, Frantisek Zahalka1, Dai Sugimoto2, Lucia Mala1. 1Charles University, FFES, Prague, Czech Republic. 2-Boston Children’s Hospital, 3-The Micheli Center for Sports Injury Prevention. 2-Boston, 3-Waltham, MA.
Email: maly@fvs.cuni.cz
(No relationships reported)

2091 Board #104 3:30 PM - 5:00 PM
Multicomponent Training Distress Scale (MTDS) Questionnaire to Detect Training Distress in Collegiate Soccer Players
Email: i.agwuenu@u.pacific.edu
(No relationships reported)

2092 Board #105 3:30 PM - 5:00 PM
Stress and Mood Affect Sleep Quality and Quantity in College Female Soccer Players
Tomas Barrett, Gavin Connolly, Shane Connolly, Paul L. O’Connor. Central Michigan University, MT PLEASANT, MI.
Email: barrel1@cmich.edu
(No relationships reported)

2093 Board #106 3:30 PM - 5:00 PM
Monitoring Markers of Oxygen Transport Throughout A Collegiate Soccer Season
Andrea R. Fortunati1, Robert A. Huggins1, Ryan M. Curtis1, Garrett J. Fontaine1, Matthew L. Half1, Elaine C. Lee1, David P. Looney1, Chris A. West1, Douglas J. Casa, FACSM1, Maren S. Fragala4. 1Korey Stringer Institute, University of Connecticut, Storrs, CT. 2UCONN Health, Storrs, CT. 3University of Connecticut, Storrs, CT. 4Quest Diagnostics Inc., Madison, NJ.
Email: andrea.fortunati3@gmail.com
(No relationships reported)

2094 Board #107 3:30 PM - 5:00 PM
Body Composition Changes In Female Collegiate Soccer Athletes From Preseason To Postseason
Paul A. Burkett, Shawn D. Felton, Mitchell L. Cordova, FACSM. Florida Gulf Coast University, Fort Myers, FL. (Sponsor: Mitchell L. Cordova, FACSM)
(No relationships reported)

2095 Board #108 3:30 PM - 5:00 PM
Heart Rate and Energy Expenditure in Division I College Soccer Players during a Competitive Season
Shane F. O’Riordan, Gavin Connolly, Tomas Barrett, Emmi Lawless, Marina Hartmann, Mikaela Gabler, Paul L. O’Connor. Central Michigan University, Mount Pleasant, MI.
Email: orior1s@cmich.edu
(No relationships reported)
D-63 Free Communication/Poster - Energy Metabolism and Expenditure
Thursday, June 1, 2017, 1:00 PM - 6:00 PM
Room: Hall F

Board #113 2:00 PM - 3:30 PM
A Study On The Status And Factors Of Energy Deficiency In Japanese Collegiate Rhythmic Gymnasts
ERINA MURAMATSU1, MIZUKI YAMADA2, TAMAKI FURUHATA2, KANA HARADA2, MIYU SATO3, MIKAKO IVY4, SATORI NAKAJIMA1, KANSHO TANAKA1. 1Department of Health Science, Kogakuin University, Tokyo, Japan. 2Department of Physical Education, St. Agnes University, Tokyo, Japan. 3Department of Health Science, University of Tokyo, Tokyo, Japan. 4Department of Exercise Science, Kogakuin University, Tokyo, Japan. (No relationships reported)

Board #114 2:00 PM - 3:30 PM
Cerebral Energy Metabolism And Executive Function After Repeated High-intensity Interval Exercise With Decreased Lactate Concentration
Hayato Tsukamoto1, Niels D. Olesen2, Lonnie G. Petersen2, Henrik Sørensen2, Henning B. Nielsen1, Niels H. Secher3, Shigehiko Ogoh, FACSM4, Takeshi Hashimoto, FACSM1. 1Ritsumeikan University, Shiga, Japan. 2The Copenhagen Muscle Research Centre, Copenhagen, Denmark. 3The University of Copenhagen, Copenhagen, Denmark. 4The University of Tokyo, Tokyo, Japan. (Sponsor: Takeshi Hashimoto, FACSM) Email: gr0169@gmail.com (No relationships reported)

Board #119 2:00 PM - 3:30 PM
Pre-hydration Status, Fluid Intake, And Sweat Rate Of Males Participating In Hot Yoga
Cieri J. Bednarik1, R C. Pritchett, Stephanie Campbell, K Pritchett. Central Washington University, Ellensburg, WA. (No relationships reported)
Board #122  3:30 PM - 5:00 PM  
Influence Of Carbohydrate Intake On Pacing Changes During Prolonged Cycling  
Michael J. Saunders, FACSM1, Morgan A. Price1, Nicholas D. Luden1, Daniel A. Baer1, Mark W. Patak1, Christopher J. Womack, FACSM1. 1James Madison University, Harrisonburg, VA. 2Florida State University, Tallahassee, FL. 3University of Michigan, Ann Arbor, MI. (No relationships reported)

Board #123  3:30 PM - 5:00 PM  
The Effects Of Pre-exercise Protein Vs. Carbohydrate Consumption On Energy Expenditure After High-volume Resistance Exercise  
Adam Osmond, Dean Directo, Michael Wong, Daniel Higuera, Edwa Jo. Cal Poly Pomona, Pomona, CA.  
Email: adosmond1992@gmail.com (No relationships reported)

Board #124  3:30 PM - 5:00 PM  
The Effects of Carbohydrate Mouth Rinse Concentration on Cycling Time Trial Performance  
Jonathan D. Youell1, Shawn R. Simonson1, Matthew E. Darnell2, 1University of New Mexico, Albuquerque, NM. 2University of Michigan, Ann Arbor, MI. 3University of Westminster, London, United Kingdom. 4University of Oxford, Oxford, United Kingdom. 5University of South Alabama, Waco, AL. (No relationships reported)

Board #125  3:30 PM - 5:00 PM  
Carbohydrate Mouth Rinse Improves Mean Power During Multiple Sprint Performance  
Garet Simpson1, Robert Pritchett1, Eric O’Neal2, Garrett Hoskins1, Kelly Pritchett1. 1Central Washington University, Ellensburg, WA. 2University of North Alabama, Florence, AL.  
Email: gsimpson@toppenish.wnet.edu (No relationships reported)

Board #126  3:30 PM - 5:00 PM  
The Impact of Glucose Supplementation on Barbell Velocity and Fatigability in Weightlifters: A Pilot Study  
Andrew R. Hill, Jacob B. Davis, Soon-Mi Choi. Midwestern State University, Wichita Falls, TX.  
Email: endunamoox@gmail.com (No relationships reported)

Board #127  3:30 PM - 5:00 PM  
The Repercussion of Expectoration: When a Carbohydrate Rinse Becomes Detrimental to Performance  
Hunter L. Paris, Kevin O. Murray, Timothy J. Fulton, Timothy D. Mickleborough, FACSM. Indiana University, Bloomington, IN.  
(No relationships reported)

Board #128  3:30 PM - 5:00 PM  
Six Grams of Fish Oil Supplementation Mitigates Perceived Muscle Soreness Following Acute Resistance Exercise  
Alyssa J. Holmes1, Trisha A. VanDusseldorp1, Kurt A. Escobar2, Kelly E. Johnson1, Matthew Stratton1, Terence Moriarty2, Jeremy McCormick1, Gerald Mangine1, Tony P. Nuhe2, Nick M. Beltz1, Nathan Cole1, Marvin Endito2, Chad M. Kerkisck, FACSM1, Christine M. Mermier1. 1Kennesaw State University, Kennesaw, GA. 2University of North Alabama, Florence, AL.  
Email: kjohnson4@unm.edu (No relationships reported)

Board #129  3:30 PM - 5:00 PM  
The Potential Of Omega 3 Supplementation To Reduce Muscle-inflammation After Muscle-damaging Exercise  
Yvoni Kyriakidou1, Rebeca Cielak Kantorowicz1, Jimmy Bell1, Stefania Monterisi1, Alberto Dolci1. 1University of Westminster, London, United Kingdom. 2University of Oxford, Oxford, United Kingdom. 3University of Michigan, Ann Arbor, MI. 4University of South Alabama, Waco, AL. (No relationships reported)
American College of Sports Medicine

Board #136  2:00 PM - 3:30 PM
The Effect of Exercise and Diet Interventions on Type-2 Diabetic Patient
Mei Wang, Yanfeng Zhang. China institute of sports science, Beijing, China.
Email: wangmei@ciss.cn
(No relationships reported)

Board #137  2:00 PM - 3:30 PM
Methods To Evaluate an Introductory Motivational Interviewing Workshop For Healthcare Professionals That Promote Weight Management
Robert Scales1, Joseph H. Miller2, Peter Horvath3, Michael Menghini4, Jacqueline Elder1, Amy Foxx-Orenstein1. 1Mayo Clinic, Scottsdale, AZ; 2University of New Mexico, Albuquerque, NM; 3Dominican University, River Forest, IL.
Email: scales.robert@mayo.edu
(No relationships reported)

Board #138  2:00 PM - 3:30 PM
Results Of An Eim Based Lifestyle Modification Program On Clinical Outcomes In Obese, Pre-diabetic Patients
David M. Nichols1, Edward Seger2, Peter Cummings3, Paul Washburn4, Peter Horvath5. 1University of Minnesota, Minneapolis, MN; 2University at Buffalo, Buffalo, NY; 3University of New Mexico, Albuquerque, NM; 4Stony Brook University, Stony Brook, NY; 5SUNY Downstate Medical Center, Brooklyn, NY.
Email: wangmei@ciss.cn
(No relationships reported)

Board #139  2:00 PM - 3:30 PM
The Antihypertensive Benefits Of Yoga: A Meta-Analysis
Yin Wu1, Hayley V. Macdonald2, Blair T. Johnson3, Rebecca Acabchuk1, Jill Livingston1, Crystal S. Park1, Linda S. Pescatello, FACSM1. 1University of Connecticut, Storrs, CT; 2Dominican University, River Forest, IL; 3University of Alabama, Tuscaloosa, AL.
Email: yin2.wu@uconn.edu
(No relationships reported)

Board #140  2:00 PM - 3:30 PM
Effectiveness Of A 10-wk Lifestyle Modification Program In Reducing Hypertension In Brazilan Free-Living Adults
Roberto C. Burini, FACSM, Lorraine Gollino, Hugo T. Kano, Mariana S. Nakagaki, Franz H P Burini. UNESP Medical School, Botucatu, SP, Brazil.
Email: burini@fmb.unesp.br
(No relationships reported)

Board #141  2:00 PM - 3:30 PM
The Effects of a Group Exercise Rehabilitation Session on Stroke Survivors
Steve Meadows, Roisin Sullivan. University of Kent, Chatham Maritime, United Kingdom.
Email: s.meadows@kent.ac.uk
(No relationships reported)

Board #142  2:00 PM - 3:30 PM
Mechanical Adaptations In Walking Performance Using Ankle Foot Orthoses For Patients With Peripheral Artery Disease
Ryan L. Mizner1, Ashley A. Mays2, Ryan J. Mays1. 1University of Montana, Missoula, MT; 2North Memorial Medical Center, Robbinsdale, MN.
Email: ryan.mizner@umontana.edu
(No relationships reported)

Board #143  2:00 PM - 3:30 PM
The Acute Arterial Stiffness Response to Interval vs. Continuous Exercise in Postmenopausal Women
Emily M. Miele, Christa Wintor, Richard J. Wood, Samuel A. E. Headley, FACSM. Springfield College, Springfield, MA.
Email: dr. samuel.a.e. headley, facsm
(No relationships reported)

Board #144  2:00 PM - 3:30 PM
Physical Activity After Hospitalization For Acute Coronary Syndrome: Correlates Of Exercise Days Using Objective Measures
Ashley M. Goodwin1, Ian M. Kronishi2, Nathalie Moise2, Andrea T. Duran1, Carol Ewing Garber, FACSM1, Joseph E. Schwartz2, Keith M. Daisz2. 1Teachers College, Columbia University, New York, NY; 2Center for Behavioral Cardiovascular Health, Columbia University Medical Center, New York, NY.
Email: gkelley@hsc.wvu.edu
(No relationships reported)

Board #145  2:00 PM - 3:30 PM
Predicting Biomarkers through Affordable Fitness Band in Chinese Breast Cancer Survivors
Zachary Pope1, Ning Liao2, Chunyuan Han3, Nan Zeng1, Jian Gao1. 1University of Minnesota, Minneapolis, MN; 2Guangdong People’s General Hospital, Guangzhou, China; 3South China University of Technology, Guangzhou, China.
(No sponsor: Zan Gao, FACSM)
Email: popex157@umn.edu
(No relationships reported)

Board #146  2:00 PM - 3:30 PM
Cardiorespiratory Fitness And Muscle Strength In Pancreatic Cancer Patients
Joachim Wiskemann1, Dorothea Claus1, Cornelia M. Ulrich2, Thilo Hackert2, Lutz Schneider1, Christin Tjaden1, Karen Steindorf2. 1National Center for Tumor Diseases, Heidelberg, Germany; 2Huntsman Cancer Institute, Heidelberg, UT.
Email: joachim.wiskemann@sct-heidelberg.de
(No relationships reported)

Board #147  2:00 PM - 3:30 PM
Aerobic Exercise And Cancer-Related Fatigue In Adults: A Re-examination Using The Ivhet Model
George A. Kelley, FACSM, Kristi Sharpe Kelley. West Virginia University, Morgantown, WV.
Email: gkelley@bsc.wvu.edu
(No relationships reported)

Board #148  2:00 PM - 3:30 PM
Examining The Relationships among Chinese Breast Cancer Survivors’ Psychosocial Outcomes and Physical Fitness
Nan Zeng1, Chunyuan Han2, Ning Liao3, Zan Gao, FACSM1. 1University of Minnesota, Minneapolis, MN; 2Guangdong People’s General Hospital, Guangzhou, China; 3South China University of Technology, Guangzhou, China.
Email: zengx185@umn.edu
(No relationships reported)

Board #149  2:00 PM - 3:30 PM
Physical Activity Levels and Cardiometabolic Risk Factors in Adults with Asthma-COPD Overlap Syndrome (ACOS).
David Jagroop, Joshua Good, Shilpa Dogra. University of Ontario Institute of Technology, Oshawa, ON, Canada.
Email: david.jagroop@uoit.net
(No relationships reported)

Board #150  2:00 PM - 3:30 PM
Affective Response To Sprint Interval Exercise In Adults With And Without Exercise-induced Bronchoconstriction
Joshua Good, Shilpa Dogra. University of Ontario Institute of Technology, Oshawa, ON, Canada.
(No relationships reported)
P146 Final Program

2138 Board #151 2:00 PM - 3:30 PM
Physical Activity Interventions And Chronic Diseases: A Matched-Pair Analysis Comparing Cochrane And Non-Cochrane Systematic Reviews
Claudia Hacke1, Kamal R Mahtani2, Igho Onakpoyi2, Nia Roberts2, David Nunan3. 1University of Oxford, Oxford, United Kingdom; University Medical Center Hamburg-Eppendorf, Hamburg, Germany. 2University of Oxford, Oxford, United Kingdom. (Sponsor: Reinhard G. Ketelhut, FACSM)
Email: c.hacke@uke.de
(No relationships reported)

2139 Board #152 2:00 PM - 3:30 PM
P1 [margin: 0.0px 0.0px 0.0px 0.0px; Font: 24.0px Helvetica] Physical Activity For The Prevention And Treatment Of Major Chronic Disease: An Overview Of Systematic Reviews
Email: david.nunan@phe.ox.ac.uk
(No relationships reported)

2140 Board #153 2:00 PM - 3:30 PM
Evidence Of Benefits Of Exercise And Its Mechanisms In Inflammatory Arthritis
Email: christa.jansevanrensburg@up.ac.za
(No relationships reported)

2141 Board #154 2:00 PM - 3:30 PM
Improving Strength and Mobility of Adults with Multiple Sclerosis Through a 16-week Exercise Program
Nadia R. Azar1, Rosario Colomba2, Kelly Carr3, Krista J. Munroe-Chandler1, Sean Horton4, Chad A. Sutherland5. 1University of Windsor, Windsor, ON, Canada. 2Kamada Health Club, Lakeshore, ON, Canada. 3University of Pretoria, Pretoria, South Africa.
Email: azar5@uwindsor.ca
(No relationships reported)

2142 Board #155 2:00 PM - 3:30 PM
Aquatic-Dietary Intervention On Fitness & Metabolism In SCI Individuals With Glucose > 100mg/dl
William H. Scott1, Joanne Smith2, Kylie James3, Peter H. Gorman4, Paula R. Geigle5. 1University of Maryland School of Medicine, Baltimore, MD. 2Fruitful Elements, Ontario, ON, Canada. 3Korunutrition, Ontario, ON, Canada.
Email: williamscott@ummm.edu
(No relationships reported)

D-66 Exercise is Medicine®/Poster - EIM - Older Adults
Thursday, June 1, 2017, 1:00 PM - 6:00 PM
Room: Hall F

2143 Board #156 2:00 PM - 3:30 PM
Long-term Exercise Program Enrollment in Older Adults: Effects on Cardiorespiratory and Musculoskeletal Fitness
Angelica M. McQuarrie, Maureen J. MacDonald. McMaster University, Hamilton, ON, Canada. (Sponsor: Dr. Stuart Phillips, FACSM)
(No relationships reported)

2144 Board #157 2:00 PM - 3:30 PM
Effects Of Mulan Quan On Physiological Functions In Middle-Aged And Elderly Women
Junzhi Sun, Qiang Jiang, Jie Feng. Chengdu Sport Institute, Chengdu, China. (Sponsor: Tongjian You, FACSM)
Email: jzhsun@qq.com
(No relationships reported)

ACSM May 30 – June 3, 2017 Denver, Colorado
American College of Sports Medicine

2152 Board #165 3:30 PM - 5:00 PM
Treadmill vs. Cycle Ergometry Graded Exercise Test Responses in Multiple Sclerosis Patients
Garett Griffith1, Thessa Hilsenkamp2, Alexander Rosenberg1, Georgios Grigoriadis1, Kanokwan Bunsawat3, Sang Ouk Wee1, Elizabeth Schroeder2, Badia Saed1, Tracy Baynard, FACSM1.
1University of Illinois at Chicago, Chicago, IL. 2Erasmus MC University Medical Center, Rotterdam, Netherlands. (Sponsor: Tracy Baynard, FACSM)
Email: ggriffith@uic.edu
(No relationships reported)

2153 Board #166 3:30 PM - 5:00 PM
The YMCA Submaximal Cycle Test and the 6-Minute Walk Test are Not Accurate Predictors of Cardiorespiratory Fitness During Mid-pregnancy
Rachel A. Tinus1, Maples Jill2, Maire Blankenship3, Bailey Cooley1, Alyssa Olsenick1, Hannah Fickey1, Donald Hoover1, W. Todd Cade2.
1Western Kentucky University, Bowling Green, KY. 2Washington University School of Medicine, St. Louis, MO.
Email: rachel.tinus@wku.edu
(No relationships reported)

2154 Board #167 3:30 PM - 5:00 PM
A Novel Maximal Treadmill Exercise Testing Protocol in the Morbidly Obese: A Descriptive Report
Richard S. Severin, Shane Phillips. The University of Illinois at Chicago, Chicago, IL. (Sponsor: Tracy Baynard, FACSM)
Email: rsseverin@gmail.com
(No relationships reported)

2155 Board #168 3:30 PM - 5:00 PM
Assessment Of Cardiorespiratory Fitness And Recovery Capacity Among Women With Fibromyalgia
Lucie Bouvrette LeBlanc, Nathaly Gaudreault, Daniel Tessier, Hunter Loewen1, Marijeanne Liederbach2, Leigh Schanfein2, Ian Langone1, M. Calogero Langone2.
1Department of Respiratory Medicine, Royal Brompton Hospital, London, United Kingdom. 2Erasmus MC University Medical Center, Rotterdam, Netherlands. (Sponsor: Prof. Greg Whyte, FACSM)
Email: lucie.bouvrette.leblanc@usherbrooke.ca
(No relationships reported)

2156 Board #169 3:30 PM - 5:00 PM
Indirect Assessment Of Vo2max
Jaroslav Novak1, Milan Stork2, Vaclav Zeman1. 1Institute of Sports Medicine, Charles University, Plzen (Pilsen), Czech Republic. 2Western Bohemian University, Plzen (Pilsen), Czech Republic.
Email: novakj@lfp.cuni.cz
(No relationships reported)

2157 Board #170 3:30 PM - 5:00 PM
A Pregnancy-Specific Equation for Predicting Cardiorespiratory Fitness
McKenzie Driskill, Rachel A. Tinus, Donald L. Hoover. Western Kentucky University, Bowling Green, KY.
(No relationships reported)

2158 Board #171 2:00 PM - 3:30 PM
The Use of Prediction Equations in Hypertrophic Cardiomyopathy
Jeffery W. Christie1, Kegan J. Moneghetti1, Ricardo Lima1, Ross A. Arena, FACSM2, Leonard A. Kaminsky, FACSM3, Jon Myers, FACSM4, 1Stanford University, Stanford, CA. 2University of Brazilia, Brazilia, Brazil. 3University of Illinois, Chicago, Chicago, IL. 4Ball State University, Muncie, IN. 5Palo Alto Veterans Administration Health Care System and Stanford University, Palo Alto, CA.
(Sponsor: Jon Myers, FACSM)
Email: Christie@stanford.edu
(No relationships reported)

2159 Board #172 3:30 PM - 5:00 PM
Association Between Heart Rate Recovery, Cardiorespiratory Fitness, And Physical Activity In HIV+ Hispanic Adults
Maria C. Pacheco-Parés, Farah A. Ramirez-Marrero, FACSM. University of Puerto Rico - Rio Piedras Campus, San Juan, Puerto Rico. (Sponsor: Farah A. Ramirez-Marrero, FACSM)
Email: maria_pacheco13@hotmail.com
(No relationships reported)

2160 Board #173 2:00 PM - 3:30 PM
Posture During Exercise Effects Breathing Pattern And Reports Of Dyspnoea
John W. Dickinson1, Irisz Levai2, J Hull2, Greg Whyte, FACSM1. 1University of Kent, Chatham Maritime, United Kingdom. 2Erasmus MC University Medical Center, Rotterdam, Netherlands. (Sponsor: Farah A. Ramirez-Marrero, FACSM)
Email: J.W.Dickinson@kent.ac.uk
(No relationships reported)

D-68 Free Communication/Poster - Fitness Assessment
Thursday, June 1, 2017, 1:00 PM - 6:00 PM
Room: Hall F

2161 Board #174 3:30 PM - 5:00 PM
Justin Usher, Rajab Imtair, Dimitri Castro, Evranjeet Brar, Julio Gomez, Jenny O, Vanessa R. Yingling, FACSM. California State University, East Bay, Hayward, CA.
Email: jusher@horizon.csueastbay.edu
(No relationships reported)

2162 Board #175 3:30 PM - 5:00 PM
No Difference In Time To Stabilization Between Male & Female Dancers Following A Jump-landing Task
Hunter Loewen1, Marijeanne Liederbach1, Leigh Schanfein1, Ian Kremenice1. 1University of Manitoba, Winnipeg, MB, Canada. 2NYU Langone Medical Center Hospital for Joint Diseases, New York, NY. 3Lenox Hill Hospital Northwell Health, New York, NY. (Sponsor: Mai McHugh, FACSM)
(No relationships reported)

2163 Board #176 3:30 PM - 5:00 PM
Relationship Between the Ruffier Test and Maximal Treadmill Testing in Healthy Adults
Francois Modave, Trevor Leavitt, Ravi Kumar, Bion Jiang, Yi Guo, Heather K. Vincent, FACSM. University of Florida, Gainesville, FL.
Email: modavelp@ufl.edu
(No relationships reported)

2164 Board #177 3:30 PM - 5:00 PM
Hip Adductors are Stronger in Persons with Bilateral Compared to Unilateral Knee Injury: Pilot Study
Sara F. Voorhees1, Phyllis Heyne-Lindholm1, Scott Brown2, Donald Bruenjes3. 1University of Jamestown, Fargo, ND. 2Sanford POWER, Fargo, ND. 3Concordia College, Moorhead, MN.
Email: svoorhees@uj.edu
(No relationships reported)

2165 Board #178 3:30 PM - 5:00 PM
Impact Of CrossFit And Non-CrossFit Programs On Range Of Motion
(No relationships reported)

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<thead>
<tr>
<th>Time</th>
<th>Board</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
<th>Email</th>
<th>Notes</th>
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<tbody>
<tr>
<td>3:30 PM - 5:00 PM</td>
<td>Board #179</td>
<td>Marijuana Use and The Health and Fitness of Physically Active Users and Non-Users</td>
<td>Jonathon Lisano, Matthew Christensen, Alissa Mathias, Marcus Chavez, Kristina T. Phillips, Jeremy D. Smith, Laura K. Stewart. University of Northern Colorado, Greeley, CO.</td>
<td>Email: <a href="mailto:lis3700@bears.unco.edu">lis3700@bears.unco.edu</a></td>
<td>No relationships reported</td>
<td></td>
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<tr>
<td>3:30 PM - 5:00 PM</td>
<td>Board #180</td>
<td>Effect Of Pacing Strategy During The Final Two Minutes of a Self-paced VO&lt;sub&gt;2max&lt;/sub&gt; Test (spv)</td>
<td>Sangwoo Lee&lt;sup&gt;1&lt;/sup&gt;, Nicholas Hanson&lt;sup&gt;1&lt;/sup&gt;, Carter Reid&lt;sup&gt;1&lt;/sup&gt;, Timothy Michael, FACSM&lt;sup&gt;1&lt;/sup&gt;, Carol Weideman&lt;sup&gt;1&lt;/sup&gt;, Cory Schearder&lt;sup&gt;1&lt;/sup&gt;, 1Western Michigan University, Kalamazoo, MI. 2Northern Kentucky University, Highland Heights, KY.</td>
<td>Email: <a href="mailto:sangwoolee@wmich.edu">sangwoolee@wmich.edu</a>, <a href="mailto:cweideman@wmich.edu">cweideman@wmich.edu</a>, <a href="mailto:cschearder@wmich.edu">cschearder@wmich.edu</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #181</td>
<td>Validation of a 6-4 Cycle Ergometry Sprint to Measure Peak Power in Recreationally Active Females</td>
<td>Scott M. Graham&lt;sup&gt;1&lt;/sup&gt;, Fergal Grace&lt;sup&gt;2&lt;/sup&gt;, Nicholas Sculthorpe&lt;sup&gt;1&lt;/sup&gt;, Julian Baker&lt;sup&gt;2&lt;/sup&gt;, Chris Connaby&lt;sup&gt;2&lt;/sup&gt;, Marianne F. Baird&lt;sup&gt;2&lt;/sup&gt;, 1Edinburgh Napier University. Edinburgh, United Kingdom. 2Edinburgh Napier University, Edinburgh, United Kingdom. 3University of the West of Scotland, Hamilton, United Kingdom. 4University of Pittsburgh, Pittsburgh, PA.</td>
<td>Email: <a href="mailto:S.Graham3@napier.ac.uk">S.Graham3@napier.ac.uk</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #182</td>
<td>Evaluating Upper-body Strength And Power From A Single Test: The Ballistic Push-up</td>
<td>Ran Wang&lt;sup&gt;1&lt;/sup&gt;, Jay R. Hoffman, FACSM&lt;sup&gt;1&lt;/sup&gt;, Eliahu Sadres&lt;sup&gt;2&lt;/sup&gt;, Sandro Bartolomei&lt;sup&gt;1&lt;/sup&gt;, Tyler W.D. Muddle&lt;sup&gt;1&lt;/sup&gt;, David H. Fukuda&lt;sup&gt;1&lt;/sup&gt;, Jeffrey R. Stout, FACSM&lt;sup&gt;1&lt;/sup&gt;, 1University of Central Florida, Orlando, FL. 2Wingate Institute for Physical Education and Sport, Netanya, Israel.</td>
<td>Email: <a href="mailto:wangranmax@knights.ucf.edu">wangranmax@knights.ucf.edu</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #183</td>
<td>Nptrobnp, Lactate And Bp Responses To The Want In Young Male Wrestlers And Untrained</td>
<td>Moran S. Saghiv&lt;sup&gt;1&lt;/sup&gt;, Kayla Cummings, Katie Kusser, Kellie Kvislen, Chris Knoll, John Dinkle, Levi Roenmich. University of Mary, Bismarck, ND.</td>
<td>Email: <a href="mailto:moransaghiv@gmail.com">moransaghiv@gmail.com</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #184</td>
<td>Relationship Between the Repetition-Sprint Ability Test, Maximal Exercise and Exercise Tolerance in Female Athletes</td>
<td>Bruno Archiza, Daniela K. Andaku, Flávia R. Caruso, Clayton A. Libardi, José C. Bonjorno, Jr, Claudio R. Oliveira, Audrey Borghi-Silva. Federal University of São Carlos, São Carlos, Brazil.</td>
<td>Email: <a href="mailto:barchiza@gmail.com">barchiza@gmail.com</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #185</td>
<td>Differences Between Open and Closed-Kinetic Chain Measurements for Assessing Bilateral Strength Deficits</td>
<td>Casey M. Watkins, Megan A. Wong, Saldiam R. Barillas, Ian J. Dobbs, Lee E. Brown, FACSM. California State University, Fullerton, Fullerton, CA.</td>
<td>Email: <a href="mailto:mwalters@marymount.edu">mwalters@marymount.edu</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #186</td>
<td>Physiological Attributes of an NCAA Intercollegiate Triathlon Team</td>
<td>Michelle Walters-Edwards&lt;sup&gt;1&lt;/sup&gt;, Michael Nordvall&lt;sup&gt;1&lt;/sup&gt;, Alexei Wong&lt;sup&gt;1&lt;/sup&gt;, David A. Edwards&lt;sup&gt;1&lt;/sup&gt;, Robert Axtell, FACSM&lt;sup&gt;1&lt;/sup&gt;, 1Marymount University, Arlington, VA. 2Southern Connecticut State University, New Haven, CT.</td>
<td>Email: <a href="mailto:mwalters@marymount.edu">mwalters@marymount.edu</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #187</td>
<td>Sex Differences In Bilateral And Unilateral Asymmetries In Recreationally Trained Individuals</td>
<td>Jasmine Wimbish, Christina N. Cooper, Elizabeth Montes, Lauren Bryant, Jason Ng, Guillermo Escalante, Nicole C. Dabb. California State University, San Bernardino, San Bernardino, CA. (Sponsor: Bryan Haddock, FACSM)</td>
<td>Email: <a href="mailto:lisa3700@bears.unco.edu">lisa3700@bears.unco.edu</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #188</td>
<td>Correlation Between Bench Press and Pushup Repeated to Failure Relative to Bodyweight</td>
<td>Taran E. Eickel, Casey M. Watkins, David C. Archer, Megan A. Wong, Lee E. Brown, FACSM. California State University, Fullerton, Fullerton, CA.</td>
<td>Email: <a href="mailto:lisa3700@bears.unco.edu">lisa3700@bears.unco.edu</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #189</td>
<td>Hamstrings to Quadriceps Ratios Differ Between Legs and Isometric and Dynamic Tests in Amateur Rugby Players</td>
<td>Ian J. Dobbs, Casey M. Watkins, Megan A. Wong, Saldiam R. Barillas, Lee E. Brown, FACSM. California State University, Fullerton, Fullerton, CA.</td>
<td>Email: <a href="mailto:lisa3700@bears.unco.edu">lisa3700@bears.unco.edu</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #190</td>
<td>Effect Of Exercise Intervention On Health States Of Civil Servants In Chengdu City</td>
<td>Yushi Hu, Xihui Liu, Hua Shen, Quansheng Su, Junzhi Sun, Xiaorui Zhang. ChengDu Sport Institute, ChengDu, China.</td>
<td>Email: <a href="mailto:603457104@qq.com">603457104@qq.com</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #191</td>
<td>Validation Of An On-ice Continuous Multistage Test For Short Track Speed Skaters</td>
<td>Fanie St-Jean Miron, Andréée-Anne Parent, Vincent Gosselin Boucher, Alain Steve Comtois. University of Quebec in Montreal, Montreal, QC, Canada. (Sponsor: Jean P. Boucher, FACSM)</td>
<td>Email: <a href="mailto:stj.fanie@gmail.com">stj.fanie@gmail.com</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #192</td>
<td>Muscle Function Tests as Field Measures of Tibial Bone Strength</td>
<td>Rebekkah J. Reichert, Andrew Denys, Sherah McCurdy, Vanessa R. Yingling, FACSM. California State University, East Bay, Hayward, CA.</td>
<td>Email: <a href="mailto:sj.mccurody@gmail.com">sj.mccurody@gmail.com</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #193</td>
<td>The Age-related Changes In Multi- And Single-joint Measures Of Power Output</td>
<td>Hayden Giuliani&lt;sup&gt;1&lt;/sup&gt;, Brennan Thompson&lt;sup&gt;2&lt;/sup&gt;, Eric Sobolewski&lt;sup&gt;3&lt;/sup&gt;, Eric Ryan&lt;sup&gt;3&lt;/sup&gt;, 1University of North Carolina-Chapel Hill, Chapel Hill, NC. 2Utah State University, Logan, UT. 3Furman University, Greenville, SC. (Sponsor: Abbie Smith-Ryan, FACSM)</td>
<td>Email: <a href="mailto:sj.mccurody@gmail.com">sj.mccurody@gmail.com</a></td>
<td>No relationships reported</td>
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<td>3:30 PM - 5:00 PM</td>
<td>Board #194</td>
<td>Comparison Of Mechanical Efficiencies From Self-selected And Rapid Speed Rock Climbs</td>
<td>Rickelle Tallent&lt;sup&gt;1&lt;/sup&gt;, Andrea Woita&lt;sup&gt;1&lt;/sup&gt;, Charli Aguilar&lt;sup&gt;1&lt;/sup&gt;, John Young, FACSM&lt;sup&gt;1&lt;/sup&gt;, James Navalta, FACSM&lt;sup&gt;2&lt;/sup&gt;, Nathaniel Bodell&lt;sup&gt;1&lt;/sup&gt;, Elizabeth Tanner&lt;sup&gt;1&lt;/sup&gt;, Jeffery Montes&lt;sup&gt;1&lt;/sup&gt;, Grace MacDonald&lt;sup&gt;1&lt;/sup&gt;, Camille Thomas&lt;sup&gt;2&lt;/sup&gt;, Jacob Manning&lt;sup&gt;1&lt;/sup&gt;, Julie Taylor&lt;sup&gt;1&lt;/sup&gt;, 1UNLV, Las Vegas, NV. 2Southern Utah University, Cedar City, UT. (Sponsor: Dr. James Navalta, FACSM)</td>
<td>Email: <a href="mailto:rickelle.tallent@unlv.edu">rickelle.tallent@unlv.edu</a></td>
<td>No relationships reported</td>
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American College of Sports Medicine

2182  Board #195  3:30 PM - 5:00 PM
The Relationship between Echo Intensity and Specific
Strength as Measures of Muscle Quality
Jacob A. Mota, Gena R. Gerstner, Hayden K. Giuliani, Timothy J.
Barnette, Eric D. Ryan. University of North Carolina at Chapel Hill,
Chapel Hill, NC. (Sponsor: Abbie Smith-Ryan, FACSM)
Email: jamaota@unc.edu
(No relationships reported)

2183  Board #196  3:30 PM - 5:00 PM
Improved Fitness Trends In Firefighter Recruits Over A 12-
year Span
Annmarie Chizewski1, Tina A. Greenlee2, Daniel R. Greene1,
Kathryn Rougeau1, Denise L. Smith, FACSM3, Steven J. Petruzzello,
FACSM. 1University, Bloomsburg, PA.
2University of Illinois at Urbana-Champaign, Urbana, IL.
3Center for the Intrepid, Fort Sam Houston, TX.
Email: chizews2@illinois.edu
(No relationships reported)

2184  Board #197  3:30 PM - 5:00 PM
Physical Activity Intervention Fitness Of Male’S Middle
Students In China: A Systematic Review And Meta-analysis
Jindong Chang1, Ming Yang1, Yan Peng1, Yi Li1, Hao Guo1, Mingxi
Guan1. 1Southwest University, Chongqing, China.
Email: changhui@163.com
(No relationships reported)

2185  Board #198  3:30 PM - 5:00 PM
The Relationship between Vertical Power and Bone Mineral
Content in College-Aged Women
Chelsea Winrich1, Brittany Masteller2, Swapan Mookerjee1, Curt
B. Dixon, FACSM3, Joseph L. Andreacci, FACSM1. 1Bloomsburg
University, Bloomsburg, PA. 2Lock Haven University, Lock Haven,
PA. (Sponsor: Joseph L Andreacci, FACSM)
(No relationships reported)

2186  Board #199  3:30 PM - 5:00 PM
Sex Differences in the Physiological Responses of Elite
Collegiate Hockey Players during a Submaximal Test
Patrick Delisle-Houde, Nathan Chiariotti, Jessica A. Insogna, Ryan
ER Reid, Ross E. Andersen, FACSM. McGill University, Quebec,
QC, Canada. (Sponsor: Ross E. Andersen, FACSM)
Email: patrick.delisle-houde@mail.mcgill.ca
(No relationships reported)

2187  Board #200  3:30 PM - 5:00 PM
Physical Activity Level Of College Students: Do We Really
Know How Much?
Ashley M. Williamson, Danielle N. Ludlam, Sarah M. Heny, George
W. Lyerly, FACSM. Coastal Carolina University, Conway, SC.
Email: awilliam9@g.coastal.edu
(No relationships reported)

2188  Board #201  3:30 PM - 5:00 PM
Agreement of Ventilatory Responses to Continuous and
Interval Specific Taekwondo Cardiopulmonary Exercise
Tests
Matheus Hausen1, Pedro Paulo Soares1, Marcos Paulo Araujo1,
Débora Estevens1, Hilbert Julio1, Roberto Taill1, Flávia Porto1, Jonas
Gurgel1. 1Fluminense Federal University, Niterói, Brazil.
Email: jangeroj@uninorte.edu.br
(No relationships reported)

2189  Board #202  3:30 PM - 5:00 PM
Training-Induced Change in Aerobic Fitness and Anaerobic
Power among Female College Basketball Players
Ja’Da Brayboy, Tianna Knuckles, Chatori Major, Taylor Tramel,
Bailey Parton, Aubrianne Rote. UNC Asheville, Asheville, NC.
(No relationships reported)

2190  Board #203  3:30 PM - 5:00 PM
Gender Inequality and Sex Differences in 20 Meter Shuttle
Run Test Performance across 45 Countries
Justin Lang1, Joel D. Barnes1, Tani Manyanga1, Mark S. Tremblay,
FACSM1, Grant R. Tomkinson1. 1Children’s Hospital of Eastern
Ontario Research Institute, Ottawa, ON, Canada.
2University of North Dakota, Grand Forks, ND. (Sponsor: Dr. Mark Tremblay,
FACSM)
Email: jlang03@uottawa.ca
(No relationships reported)

2191  Board #204  3:30 PM - 5:00 PM
Physical/Physiological Comparison between Cohorts
of Marine Corps Forces Special Operations Command
Experienced and Entry Level Operators
Scott D. Royer1, Joshua D. Winters1, John Abt, FACSM1, Nick
Heebner, FACSM, Kathleen Poploski1, William Getsey2, CAPT
Necia Williams2, Scott Lephart, FACSM1. 1University of Kentucky,
Lexington, KY. 2Marine Corps Forces Special Operations Command,
Camp Lejeune, NC. (Sponsor: John Abt, FACSM)
(No relationships reported)

2192  Board #205  3:30 PM - 5:00 PM
Relationship Between Heart Rate Variability Outcomes
vs Firefighter Performance, Physical Activity, and Fitness
Measures
Ashley Y. Lesniak1, Mark G. Abell1, Katie M. Self1, Chris Morris1.
1University of Kentucky, Lexington, KY. 2Hofstra University,
Hempstead, NY.
(No relationships reported)

2193  Board #206  3:30 PM - 5:00 PM
Relationship Between Anthropometric Profiles and Sports
Specific Physical Performance Tests in College Football
Players
Scott A. Cammack, Sarah E. Dobard, William L. Sexton, FACSM.
University of Kentucky, Lexington, KY. (Sponsor: Mark Tremblay,
FACSM)
Email: scammack@atsu.edu
(No relationships reported)

2194  Board #207  3:30 PM - 5:00 PM
Physical Activity Classes Improve Health-Related Physical
Fitness Levels
Ethan E. Hull, Wenhao Liu, FACSM, Istvan Kovacs, Slippery Rock
University, Pgh, PA. (Sponsor: Wenhao Liu, FACSM)
Email: ethan.hull@srub.png
(No relationships reported)

D-69 Free Communication/Poster - Integrative
Exercise Physiology

Thursday, June 1, 2017, 1:00 PM - 6:00 PM
Room: Hall F

2195  Board #208  2:00 PM - 3:30 PM
Inonotus Obliquus Polysaccharide Extract (IOP) Does Not
Enhance Exercise Duration or Alter Interstitial Oxygen
Kinetics in Rat Skeletal Muscle
Scott A. Cermack, Sarah E. Dobbard, William L. Sexton, FACSM.
A.T. Still University, Kirksville, MO.
Email: scermack@atsu.edu
(No relationships reported)

2196  Board #209  2:00 PM - 3:30 PM
Upper Limits Of Exercise Tolerance
Andrew M. Alexander, 66502, Shane M. Hammer, Kaylin D. Didier,
Dryden R. Baumfalk, Joshua R. Smith, Thomas J. Barstow, FACSM.
Kansas State University, Manhattan, KS.
(No relationships reported)
Board #211
2:00 PM - 3:30 PM
Relation between Hand Grip Strength and Body Composition Associated with Cardiovascular Risk in University Students

Mariluce De Souza Martins1, Sandra Posada-Bernal2, Aura Catalina Zea Robles2. 1Pontificia Universidad Javeriana, Bogota - Colombia, Colombia. 2Universidad Santo Tomás, Bogota - Colombia, Colombia.

Email: ndesouzamartins@javeriana.edu.co
(No relationships reported)

Board #212
2:00 PM - 3:30 PM
The Effects Of A Muscle Biopsy On Motor Unit Firing Properties

Ryan J. Colquhoun1, Cody T. Haun2, Petey W. Mumford2, Paul A. Roberson2, David D. Pascoe2, Mary P. Feeney2, Kaelin C. Young2, DeFreitas1. 1S. Mackey1, Matt S. Stock3, Nathaniel D.M. Jenkins1, Jason M. Bogotá D.C, Co, Bogota, Colombia.

Email: micol.rothman@ucdenver.edu
(No relationships reported)

Board #213
2:00 PM - 3:30 PM
Hormonal Responses After Eccentric Exercise In Humans

Anastassios Philippou1, Maria Maridaki2, Loukas Kollias3, Argyro Papadopetra1, Ioannis Pennas1, Michael D. Roberts2, Tyler W.D. Muddle3. 1Medical School, National and Kapodistrian University of Athens, Goudi-Athens, Greece. 2Faculty of Physical Education and Sport Science, National and Kapodistrian University of Athens, Gouxi-Athens, Greece.

Email: tphilippou@med.uoa.gr
(No relationships reported)

Board #214
2:00 PM - 3:30 PM
Evidence Of A “Male Athlete Triad” In Competitive Triathletes

Micel S. Rothman, Wendy M. Kohr, FACSM, Deborah Saint-Phard. University of Colorado, Aurora, CO.

Email: micel.rothman@ucdenver.edu
(No relationships reported)
American College of Sports Medicine

Board #221 2:00 PM - 3:30 PM
Effects of High Intensity Interval Training Frequency on 1.5 Mile Run Times in Air Force Cadets
Jared Dahlen1, Dale Wagner1. 1United States Air Force Academy, USAF Academy, CO. (No relationships reported)

Board #222 2:00 PM - 3:30 PM
Effects of Different Tempos of a Side-step Interval Exercise on Heart Rate and Muscle Activation
Robert S. Thiebaud1, Takashi Abe2, Jonathan C. Bravo1, Nicolas Giovannitti1, Avery P. Sullivan1. 1Texas Wesleyan University, Fort Worth, TX. (No relationships reported)

Board #223 2:00 PM - 3:30 PM
Sprint Interval Training and Power Output In College Age Females
Jenna Thompson, Sophie Olson, Leilah Embertson, Mark Blegen, FACSM. 1St. Catherine University, St. Paul, MN. (Sponsor: Mark Blegen, FACSM)

Board #224 2:00 PM - 3:30 PM
Sprint Interval Training and Development of Peak Power in Females
Sophie Olson, Jenna Thompson, Leilah Embertson, Mark Blegen, FACSM. 1St. Catherine University, St. Paul, MN. (Sponsor: Mark Blegen, FACSM)

Board #225 2:00 PM - 3:30 PM
Changes in VO2 max and Muscular Strength Over A 24-Week Cycle Ergometer Interval Program Among Active Middle-Age Adults
Montana L. Pruett1, Ashley N. Triplett1, Christopher R. Hill1, Samantha J. Deere2, Lori Ploutz-Snyder, FACSM1, James M. Pivarnik, FACSM1, Deborah L. Feltz1. 1Michigan State University, East Lansing, MI. 2Saginaw Valley State University, University Center, MI. (No relationships reported)

Board #226 2:00 PM - 3:30 PM
Metabolic Efficiency Between Two Types of High-Intensity Interval Training
Christopher Buschmann, Johnathon Childress, Michael Harris, Adrian Aron. 1Radford University, Roanoke, VA. (Sponsor: Trent A. Hargens, FACSM)

Board #227 2:00 PM - 3:30 PM
Cardiovascular and Workload Responses to High Intensity Interval Training in Adolescents
Shannon Morse, Rebecca Mitchell, Kody Brandt, Amanda Schultz, Cara Wilck, Annelise Weir, Stephen P. Bailey, FACSM. 1Elon University, Elon, NC. (No relationships reported)

Board #228 2:00 PM - 3:30 PM
Mechanical Efficiency During Repeated Attempts of Indoor Rock Climbing
Andrea C. Woita1, Jack Young, FACSM1, James W. Navalta, FACSM1, Nathaniel G. Bodei1, Jeffrey Montes1, Elizabeth A. Tanner1, Grace A. MacDonald1, Jacob W. Manning1, Camille Giovannitti1, Julie Taylor1. 1University of Nevada, Las Vegas, Las Vegas, NV. 2Southern Utah University, Cedar City, UT. (Sponsor: John Young, FACSM)

Board #229 2:00 PM - 3:30 PM
Comparing Daily Class Schedule and its Influence on Undergraduate Students’ Physical Activity Patterns
Matthew D. Moran1, Dina D. Kendle2, Matthew B. Rhudy, Kristen Giff, Mariissa Ruggiero, Carolyn Gray, Praveen Venkadhra. 1The Pennsylvania State University, Reading, PA. (No relationships reported)

Board #230 2:00 PM - 3:30 PM
Comparison of Effectiveness in Online vs. Hybrid Courses in College Wellness Courses
Ruth N. Henry, Frank M. Romeo. 1Lipscomb University, Nashville, TN. (Sponsor: Kent Johnson, FACSM)

Board #231 2:00 PM - 3:30 PM
Self-reported Measures Of Strength And Sport-specific Skills Distinguish Ranking Among Females In An International Online Fitness Competition
Paul Serafini, Yuri Feito, FACSM, Gerald Mangine. 1Kennesaw State University, Kennesaw, GA. (Sponsor: Dr. Yuri Feito, FACSM)

Board #232 2:00 PM - 3:30 PM
Analysis Of Anthropometric Profiles And Long-term Career Progression In 24 Years Of German Junior Rowing
Kay Winkert, Gunnar Trefl, Werner Lormes, Katja Machus, Jürgen M. Steinacker, FACSM. 1University Ulm, Sports and Rehabilitation Medicine, Ulm, Germany. Email: kay.winkert@uniklinik-ulm.de (No relationships reported)

Board #233 2:00 PM - 3:30 PM
Bioelectrical Impedance Analysis and Skinfold Prediction of Percent Fat in Male College Athletes
Zane Starks1, Amanda Starks2, Richard M. Schurnacher3, Jerry L. Mayhew1, William F. Brechue, FACSM1, J. Bryan Mann1. 1J.T. Still University, Kirkville, MO. 2Tarrant County College, Texas. 3University of Missouri, Columbia, MO. Email: zstarks@atsu.edu (No relationships reported)

Board #234 2:00 PM - 3:30 PM
Influence of Lower Extremity Strength on Physical Activity in Young Adults
Neal Glaviano1, Andrea Baellow2, Susan Saliba2. 1University of Toledo, Toledo, OH. 2University of Virginia, Charlottesville, VA. (Sponsor: Jay Hertel, FACSM)
Email: neal.glaviano@utoledo.edu (No relationships reported)

Board #235 2:00 PM - 3:30 PM
Predicting Maximal Oxygen Uptake in Adults Using a Walk Test
Taylor Rowley, Chris Cho, Ann Swartz, FACSM, Nora Miller, Scott Strath, FACSM. 1University of Wisconsin-Milwaukee, Milwaukee, WI. (Sponsor: Dr. Scott Strath, FACSM)
Email: tkwenos@gmail.com (No relationships reported)

Board #236 2:00 PM - 3:30 PM
Core Strength/Endurance and Inspiratory Muscle Performance - Are They Related?
Marlon L. Wong, Magno F. Formiga, Luis A. Feigenbaum, Michele A. Raya, Robyn P. Rice, Taylor M. Galmarini, Lacey Scrima, Lawrence P Cahalin, 33129. University of Miami, Miami, FL. (Sponsor: Dr. Thomas Best, FACSM)
Email: MWong2@med.miami.edu (No relationships reported)
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<th>Time</th>
<th>Board #</th>
<th>Title</th>
<th>Presenters</th>
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<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #237</td>
<td>Physiological Predictors of Fatigability in Healthy Adults</td>
<td>Zoe Williams1, Lisa Chin2, Leorey Saligan3, Leighton Chari4, Randall Keyser, FACSM1. 1 George Mason University, Fairfax, VA. 2 National Institutes of Health, Bethesda, MD. (No relationships reported)</td>
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<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #238</td>
<td>Step Test as a Predictor of Law Enforcement Pursuit Requirement</td>
<td>Paul O. Davis, FACSM. First Responder Institute, Silver Spring, MD. Email: <a href="mailto:PODIII@aol.com">PODIII@aol.com</a> (No relationships reported)</td>
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<td>2:00 PM - 3:30 PM</td>
<td>Board #239</td>
<td>Predicting 2015 NBA Rookie Class On-Court Contribution Using Draft Combine and Performance Measurable’s</td>
<td>Sarah Henry, 31419, Greg A. Ryan1, Robert L. Herron2, Jasmine Holmes3, Kaitlyn J. Weiss4. 1 Georgia Southern University, Statesboro, GA. 2 The University of Alabama, Tuscaloosa, AL. 3 Auckland University of Technology, Auckland, New Zealand. Email: <a href="mailto:sh07478@georgiasouthern.edu">sh07478@georgiasouthern.edu</a> (No relationships reported)</td>
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<td>2:00 PM - 3:30 PM</td>
<td>Board #240</td>
<td>Comparison Of Physiological Demands Of Basketball Practice Sessions To A Pre-season Game</td>
<td>Anthony D. Speckhard, Jeremy L. Knous, Adam M. Coughlin. Saginaw Valley State University, University Center, MI. (No relationships reported)</td>
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<td>2:00 PM - 3:30 PM</td>
<td>Board #241</td>
<td>Comparisons Between Jump Power, Swing Velocity, and Hitting Measures in Collegiate Baseball and Softball Athletes</td>
<td>Ryan M. Miller1, H. S. Strohmeyer2, Michael G. Bemben, FACSM1. 1 University of Oklahoma, Norman, OK. 2 University of Central Missouri, Warrensburg, MO. (Sponsor: Dr. Michael G. Bemben, FACSM) (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #242</td>
<td>Limb Mass And Passive Muscle Tension Contributions To Knee Flexion Torque At Long Muscle Lengths</td>
<td>Malachy P. McHugh, FACSM1, Susan Y. Kwiecien1, Jesse M. Galina1, Brandon M. Schmidt1, Timothy F. Tyler1. 1 Nicholas Institute of Sports Medicine and Athletic Trauma, Lenox Hill Hospital, New York, NY. 2 Pro Sports Physical Therapy of Westchester, Scarsdale, NY. Email: <a href="mailto:mcughh@nismat.org">mcughh@nismat.org</a> (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #243</td>
<td>Predicting Success in Division I College Football Players Based on Initial Physical Performance Tests</td>
<td>Anthony Caterisano, FACSM1, Michael Gentry1. 1 Furman University, Greenville, SC. 2 Virginia Tech, Blacksburg, VA. Email: <a href="mailto:tony.caterisano@furman.edu">tony.caterisano@furman.edu</a> (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #244</td>
<td>Relationship Between Dynamic Postural Control And Core Strength In Collegiate Women’s Basketball Players</td>
<td>Brenda Hardman. California State University, Long Beach, Long Beach, CA. Email: <a href="mailto:brendahardman@hotmail.com">brendahardman@hotmail.com</a> (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #245</td>
<td>Comparison of Lung Volumes and Estimated VO2max in College-aged Wind Musicians Versus Aerobic Athletes</td>
<td>Brian Larouere, Morgan Petro, Jenna Bracken, Ted DiSanti. Seton Hill University, Greensburg, PA. (No relationships reported)</td>
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</tbody>
</table>

**ACSM 64th Annual Meeting**

<table>
<thead>
<tr>
<th>Time</th>
<th>Board #</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #246</td>
<td>Predictability Of VO2max Using A Gps Watch</td>
<td>Andrew G. Pearson, Delaney C. Schoff, Marissa A. Hall, Andrea D. Workman, Christopher W. Hermann, Jeff Schulz, Rebecca W. Moore. Eastern Michigan University, Ypsilanti, MI. (Sponsor: Lanay Mudd, FACSM) Email: <a href="mailto:apears12@emich.edu">apears12@emich.edu</a> (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #247</td>
<td>Effect of Plyometrics and Whole Body Vibration on Vertical Jump Height: A Meta-analysis</td>
<td>Lucia Marin-Guillen, Alejandro Salicetti-Fonseca. University of Costa Rica, San José, Costa Rica. Email: <a href="mailto:lucia.maringuillem@yahoo.com">lucia.maringuillem@yahoo.com</a> (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #248</td>
<td>Low Correlation Between Bench Press One-Repetition Maximum and Angle Specific Isometric Bench Press</td>
<td>Cameron N. Munger, David C. Archer, RoQue A. Harmon, Kylie K. Harmon, Derek N. Pannukoff, Jared W. Coburn, FACSM, Lee E. Brown, FACSM. California State University, Fullerton, Fullerton, CA. (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #249</td>
<td>Prediction Of Lactate Threshold By Physiological Variables Utilizing Human Motion During Exercise</td>
<td>Govindasamy Balasekaran, FACSM1. Yoon Yong Jin1, Tan Wei Tyng1, Men Hong Yip1, Visvasaresh Victor Govindaswamy2. 1Nanyang Technological University, Singapore, Singapore. 2 Concordia University Chicago, Chicago, IL. Email: <a href="mailto:govindasamy.bj@nie.edu.sg">govindasamy.bj@nie.edu.sg</a> (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #250</td>
<td>Comparison of Prediction Models for Cardiorespiratory Fitness from Maximal Anaerobic Capacity in Young Adults</td>
<td>Elizabeth A. Tanner, James W. Navalta, FACSM. Email: <a href="mailto:cvita.gregov@kif.hr">cvita.gregov@kif.hr</a> (No relationships reported)</td>
</tr>
<tr>
<td>2:00 PM - 3:30 PM</td>
<td>Board #251</td>
<td>The Development Of A Metabolic Equation To Estimate Caloric Consumption On A Non-motorized Sport-performance Treadmill</td>
<td>Silvano Zanuso1, Giuseppe Fedele2, Simonetta Semin2, Francesco Cuzzolin1, Ethan Esser Horsham1, Paolo Bernvenuti1. 1 University of Greenwich, Gillingham, United Kingdom. 2 Technogym, Cesena, Italy. 3 University of Padova, Padova, Italy. 4 University of Verona, Verona, Italy. Email: <a href="mailto:zanusos@gmail.com">zanusos@gmail.com</a> (No relationships reported)</td>
</tr>
</tbody>
</table>
American College of Sports Medicine

2248 Board #261 3:30 PM - 5:00 PM 
VO2 Off-Kinetics Following Exhaustive Upper Body Exercise Test in Spinal Cord Injury
Donal Murray,1 Rachel E. Cowan,2 Suzanne L. Groah,3 Inger H. Liungberg,3 Armanda K. Rounds,3 Andrew A. Guccione,3 Randall E. Keyser, FACSM.1 1University of Miami, Miami, FL. 2Medstar National Rehabilitation Hospital, Washington, DC. (No relationships reported)

2249 Board #262 3:30 PM - 5:00 PM 
The Effect Of Low Intensity Eccentric Exercise On Torque angle Relationship, Muscle Strength And Flexibility
Satoru Nishida1, Tsubasa Tomoto2, Kiyoshi Maehara1, Syunpei Miyakawa1,1 university of tsukuba, tsukuba, Japan. 2National Institute of Advance Industrial Science, tsukuba, Japan. Email: baros5521@yahoo.co.jp (No relationships reported)

Final Program P153

2250 Board #263 3:30 PM - 5:00 PM 
The Effect of Rehabilitation with Blood Flow Restriction on Muscle Function Following Total Knee Replacement
Sujeck K1, Yeon Soo Kim2, Duck-chul Lee3, FACSM.1 1Seung-taek Kim1, Gyeongsu Joong1, 2Seoul National University; Seoul, Korea. 3Iowa State University, Ames, IA. 1Bundang BEST Hospital, Gyeonggi-do, Korea; Republic of. (Sponsor: Duck-chul Lee, FACSM) Email: redziji@gmail.com (No relationships reported)

2251 Board #264 3:30 PM - 5:00 PM 
Energetic and Hemodynamic Response to Electrical Stimulation Cycling in Persons with Paralysis
David W. McMillan1, Doyle Freeman2, Mathew Bellman2, Kevin Jacob1, Mark S. Nash, FACSM.1 1The Miami Project to Cure Paralysis, Miami, FL. 2Florida Atlantic University, Boca Raton, FL. 3MYOLYN, Inc, Gainesville, FL. 1The University of Miami, Miami, FL. (Sponsor: Mark S Nash, FACSM) Email: dnmcllidd@med.miami.edu (No relationships reported)

2252 Board #265 3:30 PM - 5:00 PM 
Insulin Resistance Adversely Affects Cutaneous Microvascular Perfusion Responses to Insulin Iontophoresis in Spinal Cord Injury
Joshua C. Hobson1, Christopher M. Ciniglioaro1, Frank Azarelo1, Trevor Dyson-Hudson1, William A. Bauman2, Michael F. LaFountain1. 1James J. Peters Veterans Affairs Medical Center, Bronx, NY. 2Kessler Foundation, West Orange, NJ. Email: hobson3414@gmail.com (No relationships reported)

2253 Board #266 3:30 PM - 5:00 PM 
Within-Session Responses to High Intensity Interval Training in Spinal Cord Injury
Jackie M. Godinez, Elyse A. Palumbo, Jacob S. Thum, Todd A. Astornio. California State University San Marcos, San Marcos, CA. (No relationships reported)

2254 Board #267 3:30 PM - 5:00 PM 
Knee Extensor Asymmetry in Multiple Sclerosis Patients Before and After Single-Leg Cycling
David J. Lantis, Greg S. Cantrell, John P. Hintz, Daniel J. Larson, John W. Farrell, III, Brian A. Pribble, 73019, Rebecca D. Larson, King Saud Bin Abdulaziz University for Health Sciences, Riyadh, Saudi Arabia. 1James J. Peters Veterans Affairs Medical Center, Bronx, NY. 2Kessler Foundation, West Orange, NJ. Email: dlantis@ou.edu (No relationships reported)

2255 Board #268 3:30 PM - 5:00 PM 
Neuromuscular Electrical Stimulation Improves Walking Performance In People With Multiple Sclerosis: Double-blind, Randomized Trial
Awad M. Almklass1, Leah Davis2, Landon Hamilton1, Jeffrey R. Hebert1, Enrique Alvarez2, Roger M. Enoka2. 1University of Colorado Boulder, King Saud Bin Abdulaziz University for Health Science, Boulder, CO. 2University of Colorado Denver, Anschutz Medical Campus, Denver, CO. Email: awad.almklass@colorado.edu (No relationships reported)
THURSDAY, JUNE 1, 2017

2256 Board #269 3:30 PM - 5:00 PM
Within-And Across-Day Reliability Of Mobility Measures In People With Multiple Sclerosis
Liam F. Fitzgerald, Julia D. Miehn, Miles F. Bartlett, Erica L. Hartman, Ben J. Hoffmann, Michael A. Busa, Richard E.A. van Emmerik, June A. Kent, FACSM. University of Massachusetts Amherst, Amherst, MA. (Sponsor: June A. Kent, FACSM)
Email: lfitzgerald@email.umass.edu (No relationships reported)

2257 Board #270 3:30 PM - 5:00 PM
Effect of Exercise Training on Cellular Inflammation and Fitness in Individuals with Multiple Sclerosis
Kelly N. Z. Fuller1, Garet Griffth1, Rachel E. Klaren1, Jacob M. Hau1, Trace Baynard, FACSM1, Robert W. Motl1, Bo Fernhall, FACSM2. 1University of Illinois at Chicago, Chicago, IL. 2University of Alabama Bluetooth, Birmingham, AL. (Sponsor: Bo Fernhall, FACSM)
Email: gacuevas@mavs.coloradomesa.edu (No relationships reported)

2258 Board #271 3:30 PM - 5:00 PM
Relationship Between Peak Power Asymmetry and Self-Reported Measures of Fatigue in People with Multiple Sclerosis
Gregory Cantrell, David Lantis, John Farrell, III, Brian Pribble, Daniel Larson, Rebecca Larson. University of Oklahoma, Norman, OK.
Email: gcantrell1984@gmail.com (No relationships reported)

2259 Board #272 3:30 PM - 5:00 PM
Acute Effects of High-Intensity Interval Exercise on Physiological and Functional Outcomes in Multiple Sclerosis
Elizabeth A. Hubbard1, Steven J. Petruzzello, FACSM1, Robert W. Motl1. 1University of Illinois at Urbana-Champaign, Urbana, IL. 2University of Alabama Bluetooth, Birmingham, AL. (Sponsor: Bo Fernhall, FACSM)
Email: hubbard1@illinois.edu (No relationships reported)

2260 Board #273 3:30 PM - 5:00 PM
Acute Physiologic Responses During Alternative Modes of Treadmill Exercise in Adults with Parkinson’s Disease
Nicholas Levine, Brandon R. Rigby, Ronald Davis, David Nichols, FACSM, Marco Avalos, Leah Goudy, Patricia Moo, Cecil Frederick, Desiree Patterson, Mitchell Robuck, Gena Guerin, Karrie Beck, Georgette Reyes, Doris Patino, Brenda De La Cruz. Texas Woman’s University, Denton, TX.
Email: nlevine@tamu.edu (No relationships reported)

2261 Board #274 3:30 PM - 5:00 PM
Changes in Balance, Gait and Motor Control Following Treadmill Exercise in Adults with Parkinson’s Disease
Marco Avalos, Brandon R. Rigby, Ronald Davis, Kevin Becker, David Nichols, FACSM, Nicholas Levine, Leah Goudy, Patricia Moo, Cecil Frederick, Desiree Patterson, Mitchell Robuck, Gena Guerin, Kristen Codish, Karrie Beck, Georgette Reyes, Doris Patino, Brenda De La Cruz. Texas Woman’s University, Denton, TX.
Email: maavalos1@tamu.edu (No relationships reported)
Board #283
3:30 PM - 5:00 PM
Comparison Of Energy Expenditure Between Continuous Walking And Very Short-Bouts Of Intermittent Walking
Alexis Le Faucheur1, Nolwenn Chesnais2, Pauline Yvard3.
1Movement, Sport and Health Laboratory (EA 1274), Université de Rennes 2, Bruz, France; 2Ecole normale supérieure de Rennes, Bruz, France.
Email: alexis.lefaucheur@ens-rennes.fr
(No relationships reported)

Board #284
3:30 PM - 5:00 PM
Submaximal Predictions for Maximum Heart Rate and Maximal Oxygen Uptake from a Dynamical System Model
1Duke University, Durham, NC; 2University of North Carolina at Chapel Hill, Chapel Hill, NC; 3University of North Carolina at Greensboro, Greensboro, NC. (Sponsor: Claudio L. Battaglini, FACSM)
Email: michael.mazzoleni@duke.edu
(No relationships reported)

Board #285
3:30 PM - 5:00 PM
Single Sprint Interval Training Session Induces Faster VO2 Kinetics that is Sustained for 72 Hours
Danilo Iannetta1, E. Calaine Inglis2, Giorgia Spigolon2, Silvia Pogliaghi2, Juan Manuel Murias1. 1University of Verona, Verona, Italy; 2University of Calgary, Calgary, AB, Canada.
Email: danilo.iannetta@ucalgary.ca
(No relationships reported)

Board #286
3:30 PM - 5:00 PM
VO2, RER, And Heart Rate During Recovery Following A Whole-body High-Intensity And Moderate-Intensity Workout
Kara A. Witcke, FACSM, Naomi Bedingfield, Robin Burt, Mimi charter, Arielle Fraser-Slavin, Charles Guiles, Lewis Gehring, Pablo Gonzalez, Trevor Lizzie. Oregon State University - Cascades, Bend, OR.
Email: kara.witcke@osucascades.edu
(No relationships reported)

Board #287
3:30 PM - 5:00 PM
Excess Post-Exercise Oxygen Consumption Following Bouts of Moderate and Vigorous Climbing
Nathaniel G. Bodell1, Jeffery Montes1, Elizabeth Tanner1, Grace A. MacDonald2, Camille Thomas3, Jacob W. Manning4, Julie E. Taylor5, James W. Navalta1. 1University of Nevada, Las Vegas, Las Vegas, NV; 2Southern Utah University, Cedar City, UT.
Email: nathaniel.bodell@unlv.edu
(No relationships reported)

Board #288
3:30 PM - 5:00 PM
Transitioning To Minimalist Footwear To Improve Running Economy: A Randomized Controlled Trial.
Karsten Hollander1, Katharina Lindlein1, Asmus Zoch1, Klaus-Michael Braunmann1, Astrid Zech1. 1University of Hamburg, Hamburg, Germany; 2Stellenbosch University, Stellenbosch, South Africa; 3Friedrich Schiller University-Jena, Jena, Germany.
Email: karsten.hollander@uni-hamburg.de
(No relationships reported)

Board #289
3:30 PM - 5:00 PM
Strong Association Between Cardiorespiratory Fitness and Lipoprotein Subclass Pattern in Prepubertal Healthy Children
Geir K. Resaland1, Tarja Rajalahl1, Eivind Aaland1, Olav M. Kvalheim1. 1Sogn og Fjordane University College, Sognud, Norway; 2Førde Health Trust, Førde, Norway.
Email: gk@hisf.no
(No relationships reported)
D-74  Free Communication/Poster - Physical Activity Assessment in Adults
THURSDAY , JUNE 1, 2017

2284  Board #297  2:00 PM - 3:30 PM
Prediction of Oxygen Uptake from Pedometer Output across Different Activities
Poram Choi, Anthony T. Allred, Roland O. Webster, Ben R. Abadie, Agiovlasitis Stamatis, FACSM, Mississippi State University, Mississippi State, MS. (Sponsor: Stamatis Agiovlasitis, FACSM)
Email: pc839@msstate.edu
(No relationships reported)

2285  Board #298  2:00 PM - 3:30 PM
Zero Cadence as a Proxy Indicator of Sitting Behaviors in Objective Monitoring
Ho Han, Elroy J. Aguiar, Scott Ducharme, Jongil Lim, Christopher Moore, Michael A. Busa, John R. Sirard, Stuart R. Chipkin, John Staudenmayer, Catrine Tudor-Locke, FACSM. University of Massachusetts Amherst, Amherst, MA.
Email: hohan@umass.edu
(No relationships reported)

2286  Board #299  2:00 PM - 3:30 PM
Effect of Wear Location on ActiGraph Activity Counts
Samuel R. LaMunion, David R. Bassett, Jr., FACSM, Lindsay P. Toth, Scott E. Crouter, FACSM. The University of Tennessee, Knoxville, TN.
Email: slamunio@vols.utk.edu
(No relationships reported)

2287  Board #300  2:00 PM - 3:30 PM
Device Settings Impact on StepWatch Accuracy during Running
Marquell J. Johnson, Marina Egggen, Christine Lichtfluss, Kim Van Brunt, Katryn Williams. University of Wisconsin - Eau Claire, Eau Claire, WI. (Sponsor: David R. Bassett, FACSM)
Email: johnman7@uwec.edu
(No relationships reported)

2288  Board #301  2:00 PM - 3:30 PM
The Relationship Between Steps/min And Intensity On A Treadmill In 21-40 Year Old Adults
Catrine Tudor-Locke, FACSM, John M. Schuna, Jr., Tiago V. Barreiros1, Ho Han1, Elroy J. Aguiar1, Scott Ducharme1, Jongil Lim1, Christopher Moore1, Michael A. Busa1, John R. Sirard1, Stuart R. Chipkin1, John Staudenmayer1. University of Massachusetts Amherst, Amherst, MA.
University of Oregon State University, Corvallis, OR.
Syracuse University, Syracuse, NY.
Email: ctdorloc@umass.edu
(No relationships reported)

2289  Board #302  2:00 PM - 3:30 PM
Validation Of Accelerometer-based Energy Expenditure Prediction Models In Structured And Semi-structured Settings
Alexander H.K. Montoye, FACSM, Scott A. Conger2, Christopher P. Connolly1, Mary T. Imboden1, M. Benjamin Nelson1, Josh M. Bock1, Leonard A. Kaminsky, FACSM1, Ball State University, Muncie, IN. Boise State University, Boise, ID. Washington State University, Pullman, WA.
Email: montoyeah@alma.edu
(No relationships reported)

2290  Board #303  2:00 PM - 3:30 PM
Physical Activity Assessment in African Americans: Modified International Physical Activity Questionnaire vs. Objective Measurement
Amanda A. Price1, Melicia C. Whitt-Glover, FACSM, Tyrone Ceaser2. Winston-Salem State University, Winston-Salem, NC.
Gramercy Research Group, Winston-Salem, NC.
Winston-Salem State University, Winston-Salem, NC.
Email: priceca@wwsu.edu
(No relationships reported)

2291  Board #304  2:00 PM - 3:30 PM
Comparison of Objective and Subjective Sedentary Behavior
Jayan Urda Ph.D., Jeffrey Lynn Ph.D., Beth Larouere Ph.D. Slippery Rock University, Slippery Rock, PA. (Sponsor: Patricia Pierce Ph.D., FACSM)
Email: jayan.urda@sr.edu
(No relationships reported)

2292  Board #305  2:00 PM - 3:30 PM
Indoor and Outdoor Distance Estimation for Accelerometer-Derived Proximity Data: A Simulation and Machine Learning Study
Aston K. McCullough1, Shumin Qui1, Carol Ewing Garber, FACSM. Columbia University, New York, NY. Central University of Finance and Economics, Beijing, China. (Sponsor: Carol Ewing Garber, Ph.D., FACSM, FACSM)
Email: akm2169@columbia.edu
(No relationships reported)

2293  Board #306  2:00 PM - 3:30 PM
Within-person Reliability Of Step-rate Cut-offs For Physical Activity Intensity
Anthony T. Allred, Poram Choi, Roland O. Webster, Ben R. Abadie, Agiovlasitis Stamatis, FACSM. Mississippi State University, Mississippi State, MS. (Sponsor: Stamatis Agiovlasitis, FACSM)
Email: ata58@msstate.edu
(No relationships reported)

2294  Board #307  2:00 PM - 3:30 PM
Correlations between Objective and Subjective Instruments on the Measurement of Energy Expenditure in Older Adults
Wanyi Wang, Mindy P. Maziarz, Alexis Ortiz, FACSM. Texas Woman's University, Houston, TX. (Sponsor: Alexis Ortiz, FACSM)
Email: wwan@twu.edu
(No relationships reported)

2295  Board #308  2:00 PM - 3:30 PM
Improved Count Based Metrics For Estimation Of Energy Expenditure With Waist Worn Actigraph
Andrew S. Kaplan, Samuel R. LaMunion, David R. Bassett, Jr., FACSM, Scott E. Crouter, FACSM. University of Tennessee-Knoxville, Knoxville, TN.
(No relationships reported)

2296  Board #309  2:00 PM - 3:30 PM
The Relationship Between Walking Cadence and Percentage of Maximum Heart Rate
Elroy J. Aguiar, Scott W. Ducharme, Ho Han, Jongil Lim, Christopher Moore, Michael A. Busa, John R. Sirard, Stuart R. Chipkin, John Staudenmayer, Catrine Tudor-Locke, FACSM. University of Massachusetts Amherst, Amherst, MA.
Email: cuzaguiar@umass.edu
(No relationships reported)

2297  Board #310  2:00 PM - 3:30 PM
Identifying Physical Activity Type using Wrist Models Constructed for High-frequency Accelerometer Data
Matin Khierkhabahan, Amal Asiri Wanigatunga, Duane Benjamin Corbett, Vincenzo Valiani, Sanjay Ranka, Todd Matthew Manini, FACSM. University of Florida, Gainesville, FL. (Sponsor: Todd Matthew Manini, FACSM)
Email: matinkhierkhabahan@ufl.edu
(No relationships reported)
2299  Board #312  2:00 PM - 3:30 PM  Self-Reported Fitness and Objectively Measured Physical Activity among Older Adults  Katja Wuller1, Henri Väha-Hypää2, Noora Lindgren2, Jaakko Kaprio3, Harri Sievänen1, Urho M. Kujala1. 1University of Jyväskylä, Jyväskylä, Finland. 2UKK Institute, Tampere, Finland. 3PET Centre, Turku, Finland. 3Institute for Molecular Medicine Finland, Helsinki, Finland.  (No relationships reported)  Email: katja.wuller@jyu.fi  (No relationships reported)

2300  Board #313  2:00 PM - 3:30 PM  Validation of a Biometric Smart Shirt for Assessment of Physical Activity  Joe R. Mifflin1, Monroe J. Molesky, Alexander H.K. Montoye. 1Alma College, Alma, MI.  (No relationships reported)

2301  Board #314  2:00 PM - 3:30 PM  The Reasoned Action Approach Better Predicts Self-report Measures of Active Play than Accelerometer Measures  Elizabeth A. Mooradian, Andrea K. Corniskie, Jeanne D. Johnston, Susan E. Middlestadt, Georgia C. Frey, FACSM, Indiana University, Bloomington, IN.  (No relationships reported)

2302  Board #315  2:00 PM - 3:30 PM  Performance Of Actigraph’s Wear-time Sensors For Wear/ non-wear Time Classification  Diego J. Arguello1, Kristie Andersen1, Alvin Morton2, Dinesh John1.  1Northeastern University, Boston, MA. 2University of Tennessee Knoxville, Knoxville, TN.  (No relationships reported)

2303  Board #316  2:00 PM - 3:30 PM  A Decision-tree Model For Classifying Physical Activity Types Using A three-axis Accelerometer In Japanese Adults  Hideaki Hoshino1, Ryuji Takigawa1, Motohiko Miyachi1, Haruka Murakami1, Shigeho Tanaka2, Ryoko Kawakami3, Satoshi Nakae2, Kiyoji Tanaka, FACSM1, Kazumori Ohkawara1.  1University of Electro-Communication, Tokyo, Japan. 2National Institutes of Biomedical Innovation, Health and Nutrition, Tokyo, Japan. 3Waseda University, Saitama, Japan. 4University of Tsukuba, Ibaraki, Japan.  (No relationships reported)

2304  Board #317  2:00 PM - 3:30 PM  Moving Toward 24-hour Assessment: Validation Of PA Accelerometers For The Assessment Of Activity And Sleep  Kelsie Marie Full1, Jacqueline Kerr1, Atul Malhotra2, Kevin Moran3, Suneta Godbole1, Lokki Natavaraj1, Xavier Soler1.  1University of California - San Diego, La Jolla, CA. 2University of California - San Diego School of Medicine, La Jolla, CA. 3Northwestern University, Chicago, IL.  (No relationships reported)

2305  Board #318  2:00 PM - 3:30 PM  Recognising Bone Loading Exercises In Older Adults Using Machine Learning  Shirin Enshaeefar1, Nazli Farajidavar1, Alireza Abrhabian1, Payam Banagh1, Kimberly Hannam1, Kevin Deere2, Jon H. Tobias3, Sarah J. Allison4.  1University of Surrey, Guildford, United Kingdom. 2Bristol University, Bristol, United Kingdom. 3University of Oxford, Oxford, United Kingdom. 4University of Tsukuba, Ibaraki, Japan.  (No relationships reported)
Board #326 3:30 PM - 5:00 PM
Optoelectronic Plethysmography Characterises Thoracic Excursion In The Evaluation Of Dysfunctional Breathing (DB)
Irisz K. Levi1, Carlo Massaroni2, James Hull1, Greg Whyte, FACSM3, Sergio Silvestrì2, John W. Dickinson1. 1University of Kent, Chatham, United Kingdom. 2Campus Bio-Medico University of Rome, Rome, Italy. 3Royal Brompton Hospital, London, United Kingdom. 4Liverpool John Moores University, Liverpool, United Kingdom. (Sponsor: Prof Greg Whyte, FACSM)
Email: irisz.levi1dr@gmail.com
(No relationships reported)

Board #327 3:30 PM - 5:00 PM
Effect of Respiratory Activity on Traditional Center of Pressure Related Measures during Standing in Parkinson’s Patients
Jamal Roper1, Matthew Gloss1, Paul Wright1, Christina Odeh1, David Benner1, Shuqi Zhang1, Li Li, FACSM2. 1Georgia Southern University, Dekalb, IL. 2University of Texas at Southwestern Medical Center, Dallas, TX. (Sponsor: Greg Ehlers, FACSM)
Email: jroper2@georgiasouthern.edu
(No relationships reported)

Board #328 3:30 PM - 5:00 PM
Wii-Based and Supervised Exercise Training Decrease Falls Risk in Older Adults with Type 2 Diabetes
Rachel Simmons, Sheri R. Colberg, FACSM, Steven Morrison. Old Dominion University, Norfolk, VA. (Sponsor: Sheri Colberg-Ochs, FACSM)
Email: rmsimmon99@odu.edu
(No relationships reported)

Board #329 3:30 PM - 5:00 PM
Effects of Backpack Load and Load Height on Lower and Upper Body Reaching Ability
Patrick O’Malley, Jordyn Fera, Robbie Dolph II, Matthew D. Beekley, FACSM. University of DePauw, Greencastle, IN. (Sponsor: Sheri Colberg-Ochs, FACSM)
Email: patrickomalley_2018@depauw.edu
(No relationships reported)

Board #330 3:30 PM - 5:00 PM
Sprint Interval Training: Dissociating Stamina and Stability in Older Adults
Alissa A. Ackerman, Timothy W. Brelsdyk, Nathan C. Grimm, Jeremy Theisen, Simon P. Frederick, Erika Rigel, Raoul F. Reiser, II, FACSM, Christopher Bell. Colorado State University. Fort Collins, CO. (Sponsor: Raoul F. Reiser II, FACSM)
Email: alissa.ackerman@colostate.edu
(No relationships reported)

Board #331 3:30 PM - 5:00 PM
The Relationship Between Hip Musculature Range of Motion and BESTest Scores
Matt Paxton, Adam Alfaro, Kady Dieringer. Baker University, Baldwin City, KS. (Sponsor: Matthew Ganio, FACSM)
Email: mathewdpaxton@stu.bakeru.edu
(No relationships reported)

Board #332 3:30 PM - 5:00 PM
Examining Postural Control Without Feedback in Individuals with history of Ankle Sprain
Devan Groulx1, Michelle Fado2, Stephanie Manning1, Erik Wikstrom, FACSM, Jane Freund1, Srikant Vallabhajosula1. 1Elon University, Elon, NC. 2UNC Chapel Hill, Chapel Hill, NC.
Email: dgrouxl@d Elon.edu
(No relationships reported)

Board #333 3:30 PM - 5:00 PM
Evaluating Perturbations To Human Balance Following An Exercise Intervention In Previously Sedentary, Overweight Adults
Cody E. Morris, FACSM1, Harish Chander2, John C. Garner1, Hunter DeBusk2, Scott G. Owens3, Melinda W. Valliant4, Mark Loftin, FACSM5. 1Western Kentucky University, Bowling Green, KY. 2Mississippi State University, Mississippi State, MS. 3Troy University, Troy, AL. 4University of Mississippi, University, MS.
Email: cody.morris@wku.edu
(No relationships reported)

Board #334 3:30 PM - 5:00 PM
Effects of Long Term Marijuana Use On Postural Steadiness During Quiet Standing
Grace Rhodehouse, Brian C. Garcia, Jonathon Lisano, Laura K. Stewart, Jeremy D. Smith. University of Northern Colorado, Greeley, CO.
(No relationships reported)

Board #335 3:30 PM - 5:00 PM
Effect of Abdominal Wall Muscle Fatiguing Exercise on Balance in Healthy College-Age Individuals
(No relationships reported)

Board #336 3:30 PM - 5:00 PM
The Correlation of Forward Head Posture Measured via The Cranioventral Angle to Neck and Low Back Pain
Mike F. Dahlinghaus, 52803. St. Ambrose University, Davenport, IA.
Email: dahlinghausmichael@sau.edu
(No relationships reported)

Board #337 3:30 PM - 5:00 PM
Proprioception,Postural Sway and Mobility in Parkinson’S Disease Patients And Healthy Individuals
Yejun Wang1, Jia Han1, Judith Anson2, Gordon Waddington3, Roger Adams2. 1Shanghai University of Sport, Shanghai, China. 2University of Canberra, Canberra, Australia.
(No relationships reported)

Board #338 3:30 PM - 5:00 PM
Impact Of An Exercise Intervention On Human Balance Center Of Pressure Sway Parameters In Previously Sedentary, Overweight Adults
Alyssa K. Dispennette, FACSM1, Cody E. Morris1, Harish Chander2, John C. Garner1, Hunter DeBusk2, Scott G. Owens3, Melinda W. Valliant4, Mark Loftin, FACSM5. 1University of Memphis, Memphis, TN. 2University of Mississippi, University, MS.
Email: alyssa.dispennette311@topper.wku.edu
(No relationships reported)

Board #339 3:30 PM - 5:00 PM
Recovery Of Center Or Pressure Variability Following Total Ankle Arthroplasty
Douglas W. Powell1, Lindsey E. Allison1, Robin M. Queen, FACSM2. 1University of Memphis, Memphis, TN. 2Virginia Tech University, Blacksburg, VA. (Sponsor: Robin Queen, FACSM)
(No relationships reported)

Board #340 3:30 PM - 5:00 PM
A 6-week Rehabilitation Training Improves Single-leg Static Postural Control In Patients With Chronic Ankle Instability
Alyssa Evans1, S. Jun Son1, Hyunsoo Kim1, Sunku Kim2, Dustin Breuning1, Matthew K. Seeley1, J. Ty Hopkins, FACSM1. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA.
Email: alyssa7evans@gmail.com
(No relationships reported)
American College of Sports Medicine

Board #341 3:30 PM - 5:00 PM
Maintenance of Postural Steadiness throughout Chemotherapy Treatment
Shane P. Murphy, Jessica Brown, Reid Hayward, Jeremy D. Smith. University of Northern Colorado, Greeley, CO.
Email: shane.murphy@unco.edu
(No relationships reported)

Board #342 3:30 PM - 5:00 PM
Preliminary Analysis: No Differences in Leg Strength Between Fallers and Non-Fallers
Stuart McCrory1, Shane Caswell1, Amanda Estep1, Jatin Ambegaonkar2, Oladipo Eddo3, Steven Morrison1, Nelson Cortes2.
1George Mason University, Manassas, VA. 2Old Dominion University, Norfolk, VA. 3University of Memphis, Memphis, TN.
Email: bm06389@georgiasouthern.edu
(No relationships reported)

Board #343 3:30 PM - 5:00 PM
Postural And Cognitive Changes Observed During Re-Baseline Assessments
Brian J. Mizeski1, Megan E. Mormile1, Brian Szkely1, Katelyn Grimes1, Barry Munkasy1, Douglas W. Powell2, Nicholas G. Murray1.
1Georgia Southern University, Statesboro, GA. 2University of Memphis, Memphis, TN.
Email: bm06389@georgiasouthern.edu
(No relationships reported)

Free Communication/Poster - Protein Metabolism and Exercise

Board #344 3:30 PM - 5:00 PM
Effect Of Different Protein Ratio Beverages On Blood glucose Regulation
Chi Yang1, Chang Hong Guo2, Chi Hong Lu1, Chun Tai Chen1.
1University of Taipei, Taipei, Taiwan. 2Shih Hsin University, Taipei, Taiwan.
(No relationships reported)

Board #345 3:30 PM - 5:00 PM
Relationship Between Autophagy and Heat Shock Response in Peripheral Blood Mononuclear Cells Following Resistance Exercise
Trisha A. VanDusseldorp1, Kurt A. Escobar2, Kelly E. Johnson2, Roger A. Vaughan3, James J. McCormick4, Terence Morienty5, Matthew Stratton1, Nathan Cole1, Karol Dokladny6, Chad M. Kerksick, FACSM7, Len Kravitz8, Christine M. Mermier9.
1Kennesaw State University, Kennesaw, GA. 2University of New Mexico, Albuquerque, NM. 3High Point University, High Point, NC. 4Lindenwood University, St. Charles, MO. (Sponsor: Chad Kerksick, FACSM)
Email: tvanduss@kennesaw.edu
(No relationships reported)

Board #346 3:30 PM - 5:00 PM
Matrix Metalloproteinases and Tissue Inhibitors of Metalloproteinases Following High Fat Diet and Acute Exercise
Yunsuk Koh1, Yonghyeon Jo1, Eric K. O’Neal2, Angela Hollingsworth2, Lauren G. Killen2, Ashton F. Waddeff2, Alexander J. Heatherly2.
1Baylor University, Waco, TX. 2University of North Alabama, Florence, AL.
(No relationships reported)

Final Program P159

Board #347 3:30 PM - 5:00 PM
Whey Hydrolysate Supplementation Following Resistance Exercise Elicits Similar Anabolic Responses in Both Young and Older Adults
Bradley Lambert1, Teru Kato2, Paul Reidy3, Ted Graber4, Michael Borack5, Rachel Deer5, Blake Rasmussen6, Elena Volpi1.
1Texas A&M University, College Station, TX. 2Megmilk Snow Brand, Tokyo, Japan. 3University of Utah, Salt Lake City, UT. 4University of Texas Medical Branch, Galveston, TX.
(No relationships reported)

Board #348 3:30 PM - 5:00 PM
Recovery is Not Facilitated with Protein Supplementation Following Muscle-Damaging Concurrent Exercise
Lee Edden1, Sarah Browne1, Emma Stevenson1, Brad Sandersen1, Ken van Someren1, Glen Howatson, FACSM1. 2GSK Human Performance Lab, Brentford, United Kingdom. 3Newcastle University, Newcastle upon Tyne, United Kingdom. 4Northumbria University, Newcastle upon Tyne, United Kingdom.
Email: l.e.edden@gsk.com
(No relationships reported)

Board #349 3:30 PM - 5:00 PM
The Effects of Whey vs. Soy Protein at Breakfast on Satiation Response, Energy Intake and Metabolism
Caroline Melson, Svetlana Nepocatych, Takudzwa Madzima. Elon University, Elon, NC.
(No relationships reported)

Free Communication/Poster - Renal Physiology

Board #350 3:30 PM - 5:00 PM
Hydration and Renal Responses During Pre-Season High School American Football
Cory L. Butts1, Aaron R. Caldwell1, Richard A. Perry, Jr.1, Kathleen M. Heath1, J.D. Adams1, Matthew S. Ganio, FACSM2, Lisa T. Jansen1, Hyun-Gyu Suh1, Lesley W. Vanderbilt1, M. Kyle Smoot1, Brendon P. McDermott1. 1University of Arkansas, Fayetteville, AR. 2University of Kentucky, Lexington, KY.
Email: clbutts@uark.edu
Reported Relationships: C.L. Butts:
1University of Arkansas, Fayetteville, AR. 2University of Kentucky, Lexington, KY.
(No relationships reported)

Board #351 3:30 PM - 5:00 PM
Low Estimated Glomerular Filtration Rate (eGFR) is Associated with Skeletal Muscle Function Deficit in Elderly Persons
Jae Seung Chang, Tae Ho Kim, In Deok Kong. Korea University College of Medicine, Wonju, Korea, Republic of.
(No relationships reported)

Board #352 3:30 PM - 5:00 PM
Impact of Moderate Intensity Endurance Exercise on Kidney Injury
Coen C.W.G. Bongers1, Mohammad Alsady2, Yvorne A.W. Hartman3, Thijs M.H. Eijsvogels1, Peter M.T. Deen4, Maria T.E. Hopman, FACSM1. 1Radboudumc, Radboud Institute for Health Sciences, Nijmegen, Netherlands. 2Radboudumc, Radboud Institute for Molecular Life Sciences, Nijmegen, Netherlands.
Email: coen.bongers@radboudumc.nl
(No relationships reported)

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**Board #7**

Exercise Vital Sign and Health Care Utilization

Alex Mroszczyk-McDonald, Sponsor: Robert Sallis, FACSM. Kaiser Permanente Southern California, Fontana, CA.

(No relationships reported)

**ACSM 64th Annual Meeting**

**Board #8**

Association of Interrelated Neuromechanical Factors with Injury Occurrence among College Football Players

Gary B. Wilkerson, (Sponsor: Daniel C. Herman, FACSM). University of Tennessee at Chattanooga, Chattanooga, TN.

(No relationships reported)

**Board #9**

Sex Differences in Competition Volume, Club Sport Participation, Specialization, and Injury Among High School Athletes

Eric G. Post, David R. Bell, Stephanie M. Trigsted, Dan A. Schaefer, Madeline M. Miller, Adam Y. Pfäffer, Scott B. Hetzel, M. Alison Brooks, Timothy A. McGuire. University of Wisconsin-Madison, Madison, WI.

(No relationships reported)

**Board #10**

An Analysis of Female Athlete Triad Components in Elite Para-Athletes

Cheri A. Blauwet¹, Emily M. Brook², Adam S. Tenforde³, Elizabeth Broad¹, Elizabeth G. Matzkin¹. ¹Brigham and Women’s Hospital/ Harvard Medical School, Boston, MA. ²United States Olympic Committee, Chula Vista, CA.

(No relationships reported)

**Board #11**

Pre-Race Medical Screening and Educational Intervention Reduces Medical Complications: A SAFER Study in 153208 Runners

Martin Peter Schwellnus, FACSM¹, Karen Schwabe¹, Sonja Swanevelder¹, Esme Jordaan², Wayne Derman³, ¹University of Pretoria, Pretoria, South Africa. ²University of Cape Town, Cape Town, South Africa. ³University of Tennessee at Chattanooga, Chattanooga, TN.

(No relationships reported)
MicroRNAs are a class of short noncoding RNAs that play important roles in controlling gene expression. A rapidly emerging topic in biomedical research is the use of microRNAs as biomarkers of cardiovascular and musculoskeletal status and responses to aging, disease, and exercise. This symposium will discuss current information on the roles of microRNAs in the regulation of skeletal muscle, cardiorespiratory, and adipose tissue responses to exercise and the potential for microRNAs as biomarkers of disease.

**E-02 Highlighted Symposium - MicroRNAs: Roles in Exercise Adaptations and Potential Biomarkers of Disease**

**Friday, June 2, 2017, 9:30 AM - 11:30 AM**

**Room: 205**

| Session | Time | Chair | Location | Abstract
|---------|------|-------|----------|---------------------
| 2353 | 9:30 AM - 9:35 AM | Monica Hubal, FACSM. George Washington University, Washington, DC. | (No relationships reported) |
| 2354 | 9:35 AM - 10:00 AM | Aaron Russell, Institute for Physical Activity and Nutrition, Deakin University, Melbourne, Australia. | (No relationships reported) |
| 2355 | 10:00 AM - 10:25 AM | Aaron L. Baggish, FACSM. Cardiovascular Performance Program, Massachusetts General Hospital, Boston, MA. | (No relationships reported) |
| 2356 | 10:25 AM - 10:50 AM | J. Timothy Lightfoot, FACSM. Texas A&M University, College Station, TX. | (No relationships reported) |
| 2357 | 10:50 AM - 11:15 AM | Monica Hubal, FACSM. George Washington University, Washington, DC. | (No relationships reported) |

**Overall Discussion**

**E-04 Symposium - Device-Based Assessments of Physical Activity in Epidemiologic Cohort Studies: Early Findings**

**Friday, June 2, 2017, 9:30 AM - 11:30 AM**

**Room: Belco Theatre 3**

National physical activity guidelines emphasize participation in at least moderate intensity activity for substantial health benefits. Evidence for guidelines is primarily from prospective studies where physical activity level is reported by the participant. Reports of light intensity or sedentary behavior are generally not included in these studies because recall is difficult. Devices (i.e., accelerometers) overcome some limitations and assess actual physical activity movement. Many investigators are employing devices in ongoing prospective studies of physical activity and health outcomes. The purpose of this symposium is to present findings of device-based assessments of physical activity and health outcomes from prospective cohort studies.

| Session | Time | Chair | Location | Abstract
|---------|------|-------|----------|---------------------
| 2362 | 9:30 AM - 9:40 AM | Janet Fulton, FACSM. CDC, Atlanta, GA. | (No relationships reported) |
| 2363 | 9:40 AM - 10:05 AM | John Jakicic, FACSM. University of Pittsburgh, Pittsburgh, PA. | (No relationships reported) |
| 2364 | 10:05 AM - 10:30 AM | Virginia Howard. University of Alabama at Birmingham, Birmingham, AL. | (No relationships reported) |
| 2365 | 10:30 AM - 10:55 AM | David Buchner, FACSM. University of Illinois at Urbana-Champaign, Urbana-Champaign, IL. | (No relationships reported) |
| 2366 | 10:55 AM - 11:20 AM | I-Min Lee, FACSM. Harvard Medical School, Boston, MA. | (No relationships reported) |

**Overall Discussion**

Nationally, the management of chronic pain is an urgent concern in primary care settings. Due to high rates of prescription opioid use, many individuals are left addicted to or dependent on prescription medications, or with incomplete management of their chronic pain. This symposium highlights the prevalence of this issue and describes how this epidemic developed, discusses the physiology underlying pain and addiction, explains the physiological and behavioral effects of exercise on the neurobiology involved in chronic pain and addiction, and concludes by addressing the applied issue of making exercise as medicine for pain a more common practice in routine care.
E-05 Symposium - Optimizing Exercise and Diet for Insulin Sensitivity and Mitochondrial Function

Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 302

There is a strong need to re-focus efforts on designing the optimal exercise dose coupled with the appropriate nutrition for type 2 diabetes treatment. Oxidative stress is a major factor promoting insulin resistance and may explain differential responses to exercise. Herein, we present evidence that distinguishing people based on clinical phenotypes at risk for metabolic disease reveals unique differences in skeletal muscle insulin sensitivity following exercise. In turn, we discuss how varied cardio-metabolic benefits to exercise are possibly linked to the mitochondrial function. We also provide translational evidence that exercise-induced signals within skeletal muscle that include oxidative stress are important to the adaptation process and nutrition may be a way to enhance responses to exercise.

2367 9:30 AM - 9:40 AM
Chair: John P. Kirwan, FACSM. Cleveland Clinic, Cleveland, OH.
(No relationships reported)

2368 9:40 AM - 10:10 AM
Prescribing Individualized Exercise for Optimal Insulin Sensitivity and Fuel Selection
Steven K. Malin. University of Virginia, Charlottesville, VA.
(No relationships reported)

2369 10:10 AM - 10:40 AM
Role of Low vs. High Carbohydrate Diet on Mitochondrial Induced Oxidative Stress and Insulin Sensitivity following Exercise
Gordon Fisher, FACSM. University of Alabama at Birmingham, Birmingham, AL.
(No relationships reported)

2370 10:40 AM - 11:10 AM
Identifying the Exercise Intensity and Mode to Enhance Mitochondrial Adaptations
Brian A. Irving. Louisiana State University, Baton Rouge.
(No relationships reported)

11:10 AM - 11:30 AM
Overall Discussion

E-06 Symposium - Optimizing Performance during Long Endurance Events

Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: Bellco Theatre 1

The objective of this symposium is to showcase the state-of-the-art in endurance performance research by leading experts. Four talks will focus on the physiological bases of endurance (Andrew M. Jones FACSM), fatigue and efficiency (Guillaume Y Millet), performance prediction in applied settings (Brett S Kirby) and nutrition and hydration considerations (Ronald J Maughan FACSM). The symposium will advance theoretical knowledge as well as practical recommendations to researchers and practitioners with interest in endurance and ultra-endurance events. This symposium will enable attenders to address the key question: “How to apply the latest research to predict and optimize (ultra-)endurance performance?”

2371 9:30 AM - 9:40 AM
Chair: Anni Vanhatalo, FACSM. University of Exeter; Exeter; United Kingdom.
(No relationships reported)

2372 9:40 AM - 10:05 AM
Physiological Bases of Endurance Performance
Andrew M. Jones, FACSM. University of Exeter; Exeter; United Kingdom.
(No relationships reported)

E-07 Symposium - Women are from Venus: Issues Faced by Active Adult Females

Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 406

Numerous issues are encountered by females as they age and try to maintain being physically active. Many of these issues are gender specific, requiring different levels of both clinical suspicion and knowledge. This symposium will address issues such as pelvic floor dysfunction, exercise during pregnancy and the post-partum period, re-engaging in exercise later in life, as well as the risk for subchondral insufficiency fractures experienced by older females with osteopenic bone.

2376 9:30 AM - 9:35 AM
Chair: Kevin R. Vincent, FACSM. University of Florida, Gainesville, FL.
(No relationships reported)

2377 9:35 AM - 10:00 AM
Pelvic Floor and Hip issues
Sheila Dugan, FACSM. Rush University Medical Center, Chicago, IL.
(No relationships reported)

2378 10:00 AM - 10:25 AM
Exercise in Pregnancy
Susan Carter, FACSM. Northern Colorado Medical Center, Greeley, CO.
(No relationships reported)

2379 10:25 AM - 10:50 AM
Issues Related to Middle Aged Athletes: Ways to Keep Middle Aged Females Strong and Active
Carrie Jaworski, FACSM. NorthShore University HealthSystems, Chicago, IL.
(No relationships reported)

2380 10:50 AM - 11:15 AM
Spontaneous Osteonecrosis of the Knee: Subchondral Insufficiency Fractures in Osteopenic Bone
Kevin R. Vincent, FACSM. University of Florida, Gainesville, FL.
(No relationships reported)

11:15 AM - 11:30 AM
Overall Discussion
Venous thromboembolism (VTE) is often associated with advanced age, recent hospitalization, surgery or trauma and immobility, but also occurs without clear explanation. Athletes share some of the common risk factors, particularly frequent and prolonged travel, trauma, orthopedic surgical procedures, and/or contraceptive use. Occurrence of deep vein thrombosis (DVT) and pulmonary embolism (PE) in otherwise healthy athletes requires individualized treatment plans to assess return-to-play readiness and prevent future recurrence. There are no existing clinical guidelines addressing the prevention, diagnosis, treatment and care of DVT and PE in athletes. This symposium will address VTE risk factors inherent to athletes, current clinical practice in respect to treatment and care of athletes with VTE, and prevention strategies for athletes at risk for a new or reoccurring thrombotic event.

2381 9:30 AM - 9:40 AM
Chair: Benjamin Levine, FACSM. University of Texas Southwestern Medical Center, Dallas, TX.
(No relationships reported)

2382 9:40 AM - 10:00 AM
VTE in the General Population (Prevalence, Risk Factors, Presentation and Treatment)
Paul D. Thompson, FACSM. Hartford Hospital, Hartford, CT.
(No relationships reported)

2383 10:00 AM - 10:20 AM
Mechanisms Underlying VTE Risk in Athletes (Interaction between Exercise, Other Factors, and Thrombotic Risk)
Beth A. Taylor. University of Connecticut, Storrs, CT.
(No relationships reported)

2384 10:20 AM - 10:45 AM
Treatment and Care of VTE in Athletes (Strategies, Return-to-Play Considerations, Reoccurrence Prevention)
Stephan Moll. University of North Carolina School of Medicine, Chapel Hill, NC.
(No relationships reported)

2385 10:45 AM - 11:10 AM
From the Patient Perspective (Commonly Asked Questions from the Athlete with VTE)
Joshua N. Berkowitz. UNC Sports Medicine, Chapel Hill, NC.
(No relationships reported)

11:10 AM - 11:30 AM
Overall Discussion

E-09 Symposium - Wiggle It, Just a Little Bit! Interventions to Promote Physical Activity in Preschool Children: Lessons Learned
Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 603

Obesity rates are increasing in U.S. preschool-age children. Because children can spend up to 40 hours per week in childcare settings, policy, systems, and environmental change interventions in childcare settings may be important for altering obesity-related behaviors. Successful strategies are needed for implementing and sustaining interventions in childcare settings. This presentation will describe development, implementation, evaluation, and lessons learned from four interventions designed to increase physical activity in preschool children—a large scale clinical trial, a teacher-led program for low-income and racial/ethnic minority children, a train-the-trainer program for low-income schools, and a home-/family-based intervention focused on home-schooled preschoolers.

2386 9:30 AM - 9:35 AM
Chair: Melicia C. Whitt-Glover, FACSM. Gramercy Research Group, Winston-Salem, NC.
(No relationships reported)

2387 9:35 AM - 10:00 AM
Lessons Learned from Large-scale Trials to Promote Physical Activity in Preschoolers
Russell R. Pate, FACSM. University of South Carolina, Columbia, SC.
(No relationships reported)

2388 10:00 AM - 10:25 AM
Let’s Wiggle with 5-2-1-0: Curriculum Development for Training Childcare Providers to Promote Activity in Childcare Settings: Lessons Learned
Debra M. Vinci. University of West Florida, Pensacola, FL.
(No relationships reported)

2389 10:25 AM - 10:50 AM
Short Bouts of Exercise for Preschoolers (STEP) Study: Lessons Learned
Sofiya Alhassan, FACSM. University of Massachusetts - Amherst, Amherst, MA.
(No relationships reported)

10:50 AM - 11:15 AM
Overall Discussion

E-10 Thematic Poster - Cardiovascular Responses to Heat Exposure
Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 404

2391 9:30 AM - 11:30 AM
Impact Of Progressive, Chronic Dehydration On Cardiovascular Responses To Exercise In A Heated Environment
Kate S. Early1, Bailey Thall2, Nathan Lemoine3, Brian Harrell2, Conrad P. Earnest, FACSM4, Neil M. Johannsen1,1, Columbus State University, Columbus, GA. 2Louisiana State University, Baton Rouge, LA. 3Baton Rouge General, Baton Rouge, LA. 4Texas A&M, College Station, TX. (Sponsor: Conrad Earnest, FACSM)
Email: early_kate@columbusstate.edu
(No relationships reported)

2392 9:30 AM - 11:30 AM
Thematic Poster - Cardiovascular Responses to Heat Exposure
Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 404

2393 9:30 AM - 11:30 AM
The Independent Effect of Heart Rate on Stroke Volume When Skin Temperature is Hot and Cool During Exercise
Ting-Heng Chou, John D. Akins, Charles K. Crawford, Jakob R. Allen, Edward F. Coyle, FACSM. The University of Texas at Austin, Austin, TX.
Email: tinghengchou@gmail.com
(No relationships reported)

2394 9:30 AM - 11:30 AM
Heart Rate Variability as Potential Indication to the Mechanism of Heat Intolerance
yuval heled, FACSM. Heller Institute of Medical Resaerch, Ramat Gan, Israel.
Email: yuval.heled@sheba.health.gov.il
(No relationships reported)
P164 Final Program

2395 Board #4
9:30 AM - 11:30 AM
Whole-body Heat Stress Sensitizes β1-adrenergic Receptor Mediated Cardiac Systolic Function
Gilbert Moralez1, Ken Kouda2, Michinari Hieda3, Satyam Sarna4, Steven A. Romero5, Matthew N. Cramer6, Amy N. Adams1, Manall F. Jaffery1, Craig G. Crandall, FACSM7, Institute for Exercise and Environmental Medicine, Presbyterian Hospital and UT Southwestern Medical Center, Dallas, TX. 2Wakayama Medical University, Wakayama, Japan. (Sponsor: Craig G. Crandall, FACSM)
Email: GilbertMoralez@texashealth.org

2396 Board #5
9:30 AM - 11:30 AM
Effect of Exercise Mode on Cardiovascular Drift and Maximal Oxygen Uptake During Heat Stress
Tori M. Stone1, Jonathan E. Wingo, FACSM2, Jason Ng3. 1The University of Alabama, Tuscaloosa, AL. 2California State University, San Bernardino, San Bernardino, CA. (Sponsor: Jonathan E. Wingo, FACSM)
Email: tmstonc3@crimson.ua.edu

2397 Board #6
9:30 AM - 11:30 AM
Blood Pressure and Cardiovascular Responses to Emergency Calls in Volunteer Firefighters and Emergency Medical Technicians
Meaghan E. Corbin1, Cassandra C. Dorella1, Kelly C. McLaughlin1, Allyson K. Getty1, Lauren N. Chavis2, Tia R. Wisdo1, Christian K. Roberts, FACSM3, Deborah L. Feariheller4. 1Ursinus College, Collegeville, PA. 2Occidental College, Los Angeles, CA. (Sponsor: Christian K Roberts, FACSM)
Email: mecorbin@ursinus.edu

2398 Board #7
9:30 AM - 11:30 AM
12-hour Period Of Firefighting Is Associated With Short But Intense Periods Of Cardiac Strain
Rosenkranz M. Nogueira1, Edgard M. K. V. K. Soares2, Eugênio C. Nogueira3, Carlos Janssen G. da Cruz4, Guilherme E. Molina5, Keila E. Fontana6, Denise S. Smith7, Stefanos N. Kales8, Luiz Fernando Junqueira Jr9. 1Faculty of Physical Education and Cardiovascular Laboratory of Faculty of Medicine, University of Brasilia, Brasilia, Brazil. 2Faculty of Physical Education - Cardiovascular Laboratory of Faculty of Medicine, Brasilia, Brazil. 3Faculty of Physical Education, University of Brasília, Brasilia, Brazil. 4Harvard T.H. Chan School of Public Health and Cambridge Health Alliance, Harvard Medical School, Boston, MA, Boston, MA. 5Department of Health and Exercise Sciences, Skidmore College, Saratoga Springs, New York, Saratoga Springs, NY. 6Harvard T.H. Chan School of Public Health and Cambridge Health Alliance, Harvard Medical School, Boston, MA, Boston, MA. 7Cardiovascular Laboratory, Clinical Medicine Area, Faculty of Medicine, University of Brasilia, Brasilia, Brazil.
Email: hizggporto@gmail.com

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2399 Board #8
9:30 AM - 11:30 AM
Vagal Modulation and its Association With Cardiorespiratory Fitness During a Routine Firefighting Shift-work
Luiz Guilherme G. Porto1, Rosenkranz M. Nogueira2, Edgard M. K. V. K. Soares3, Eugênio C. Nogueira4, Carlos Janssen G. da Cruz5, Guilherme E. Molina6, Keila E. Fontana7, Maria K. Korre8, Denise Smith9, Stefanos N. Kales10, Luiz Fernando Junqueira Jr11. 1Faculty of Physical Education and Cardiovascular Laboratory of Faculty of Medicine, University of Brasilia and Harvard T. H. Chan School of Public Health, Boston, MA, Brasilia, Brazil. 2Military Fire Department of the Federal District—Faculty of Physical Education, University of Brasilia, Brasilia, Brazil. 3Faculty of Physical Education, University of Brasilia, Brasilia, Brazil. 4UniEuro University Center - Brasilia and Cardiovascular Laboratory of Faculty of Medicine, University of Brasilia, Brasilia, Brazil. 5Faculty of Physical Education - Cardiovascular Laboratory of Faculty of Medicine, Brasilia, Brazil. 6Faculty of Physical Education, University of Brasilia, Brasilia, Brazil. 7Harvard T.H. Chan School of Public Health and Cambridge Health Alliance, Harvard Medical School, Boston, MA, Boston, MA. 8Department of Health and Exercise Sciences, Skidmore College, Saratoga Springs, New York, Saratoga Springs, NY. 9Harvard T.H. Chan School of Public Health and Cambridge Health Alliance, Harvard Medical School, Boston, MA, Boston, MA. 10Cardiovascular Laboratory, Clinical Medicine Area, Faculty of Medicine, University of Brasilia, Brasilia, Brazil.
Email: hizggporto@gmail.com

E-11 Thematic Poster - Exercise Psychology - Cognition and Emotion

2400 Chair: J. Carson Smith, FACSM. University of Maryland, College Park, MD.

2401 Board #1
9:30 AM - 11:30 AM
Moderate Intensity Exercise Ameliorates Negative Impacts of Simulated Altitude on Executive Function.
Laura Q. Jimenez, Brian Arwari, Arlette C. Perry, FACSM, Joseph F. Signorile, FACSM, Soyeon Ahn, Sarah Kamakawiwo’ole, Kevin A. Jacobs, FACSM. University of Miami, Coral Gables, FL. (Sponsor: Dr. Kevin Allen Jacobs, FACSM)
Email: lqjimenez@uni.edu

2402 Board #2
9:30 AM - 11:30 AM
Relation Between Affective Valence During Exercise and Exercise Behavior
Zachary Zenko1, Panteleimon Ekkekakis, FACSM2. 1University of Miami, Coral Gables, FL. 2Duke University, Durham, NC. 3Iowa State University, Ames, IA.
Email: majbmnicaci@iag.com.br

2403 Board #3
9:30 AM - 11:30 AM
Does A Mentally Demanding Cognitive Task Influence Motor Reaction Time?
Bart Roelands1, Jeroen Van Cutsem2, Bart Roelands1, Jeroen Van Cutsem2, Samuele Marcora3, Romain Meeusen, FACSM4. 1Vrije Universiteit Brussel, Brussels, Belgium. 2University of Kent, Kent, United Kingdom. (Sponsor: Romain Meeusen, FACSM)
Email: bart.roelands@vub.ac.be

2404 Board #4
9:30 AM - 11:30 AM
Regulating Pleasure During Exercise: Impact on Exercise Adherence
Nicole B. Doolen, Walter B. Bixby, FACSM. Elon University, Elon, NC.
Email: bart.roelands@vub.ac.be

(No relationships reported)
American College of Sports Medicine

2405 Board #5  9:30 AM - 11:30 AM
 Effect Of High-intensity Intermittent Games-based Activity On Cognitive Function In Adolescents
 Simon B. Cooper1, Karah J. Dring1, Maria L. Nute1, John G. Morris1, Caroline Sunderland1, Stephan Bandelow2, Mary E. Nevill1. 1Nottingham Trent University, Nottingham, United Kingdom. 2Langhborough University, Langhborough, United Kingdom. Email: simon.cooper@ntu.ac.uk (No relationships reported)

2406 Board #6  9:30 AM - 11:30 AM
 Comparison Of The Effects Of Self-selected And Prescribed Intensity Exercise On Exertion And Feeling
 Walter R. Bixby, FACSM, Kristen A. Fontela. Elon University, Elon, NC. Email: wbixby@elon.edu (No relationships reported)

2407 Board #7  9:30 AM - 11:30 AM
 Postseason Emotion Dysregulation in High School Athletes
 Melissa A. Fraser. Texas State University, San Marcos, TX. Email: missyfraser@txstate.edu (No relationships reported)

2408 Board #8  9:30 AM - 11:30 AM
 A Randomized Control Intervention Investigating the Effects of Acute Exercise on Emotional Regulation
 Meghan K. Edwards, Paul D. Loprinzi. The University of Mississippi, Oxford, MS. Email: medward3@go.olemiss.edu (No relationships reported)

E-12 Thematic Poster - Moving Beyond Cancer

Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 505

2409 Chair: Kristin L. Campbell. University of British Columbia, Vancouver, BC, Canada. (No relationships reported)

2410 Board #1  9:30 AM - 11:30 AM
 Progressive Resistance Training In Breast Cancer Patients Undergoing Adjuvant Therapy: Adherence To Training Principles
 Joachim Wiskemann1, Martina E. Schmidt2, Cornelia M. Ulrich2, Andreas Schneeweiss2, Karen Steindorf2. 1German Cancer Research Center (DKFZ) and National Center for Tumor Diseases (NCT), Heidelberg, Germany. 2German Cancer Research Center, Heidelberg, Germany. Email: joachim.wiskemann@dkfz.de (No relationships reported)

2411 Board #2  9:30 AM - 11:30 AM
 Cancer Survivor Preferences, Barriers, And Facilitators To Exercise After Participation In A Cancer-specific Community Exercise Program
 Kirsten Suderman1, Kathryn Nishimura1, Nicole Culos-Reed1, Janice Yuuri1, Margaret McNeely1. 1University of Alberta, Edmonton, AB, Canada. 2University of Calgary, Calgary, AB, Canada. 3Cross Cancer Institute, Edmonton, AB, Canada. 4University of Alberta, Cross Cancer Institute, Edmonton, AB, Canada. Email: miazga@ualberta.ca (No relationships reported)

2412 Board #3  9:30 AM - 11:30 AM
 Cardioprotection in Breast Cancer Survivors: Sports Activity Vs Exercise As Prescription Model
 Laura Stefani1, Gianni Pedrizzetti2, Stefano Pedri2, Benedetta Tos1, Giorgio Galanti1. 1Sports and Exercise Medicine Center, Florence, Italy. 2University of Trieste, Trieste, Italy. Email: laura-stefani@tiscali.it (No relationships reported)

Final Program

P165 Board #4  9:30 AM - 11:30 AM
 Effect of an Argentine Tango Intervention on Gait Variability in Cancer Survivors
 Ajit M.W. Chaudhari, FACSM, Scott M. Monfort, Marie T. Lamantia, Maryam B. Lustberg, Lise C. Worthen-Chaudhari. The Ohio State University, Columbus, OH. (No relationships reported)

2414 Board #5  9:30 AM - 11:30 AM
 Exercise Maintenance After a Randomized Resistance Training Intervention in Breast Cancer Survivors Undergoing Adjuvant Therapy
 Martina E. Schmidt1, Joachim Wiskemann2, Cornelia M. Ulrich2, Andreas Schneeweiss2, Karen Steindorf2. 1German Cancer Research Center (DKFZ) and National Center for Tumor Diseases (NCT), Heidelberg, Germany. 2German Cancer Research Center, Heidelberg, Germany. Email: k.steindorf@dkfz.de (No relationships reported)

2415 Board #6  9:30 AM - 11:30 AM
 Effects Of Exercise On Sleep Problems In Breast Cancer Patients Receiving Radiotherapy: A Randomized Trial
 Karen Steindorf1, Joachim Wiskemann2, Cornelia M. Ulrich2, Martina E. Schmidt1. 1German Cancer Research Center, Heidelberg, Germany. 2German Cancer Research Center, Heidelberg, Germany. Email: k.steindorf@dkfz.de (No relationships reported)

2417 Board #8  9:30 AM - 11:30 AM
 Exercise Effects On Mental Fatigue, Cognitive Impairment And Inflammation In 479 Cancer Patients
 Karen M. Mustian, Ian Kleckner, Po Ju Lin, Calvin Cole, Charles Heckler. University of Rochester School of Medicine, Rochester, NY. (No relationships reported)

E-13 Thematic Poster - Nutritional Status of Athletes I

Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 304

2418 Chair: Enette Larson Meyer, FACSM. University of Wyoming, Laramie, WY. (No relationships reported)

2419 Board #1  9:30 AM - 11:30 AM
 75g/day Supplemental Protein Improves Lean Mass Index and Dance Performance Aesthetics in Female Collegiate Dancers
 Ann F. Brown1, Tom Welsh2, Lynn Panton, FACSM, Robert Moffat3, Michael J. Ormsbee, FACSM. 1University of Idaho, Moscow, ID. 2Florida State University, Tallahassee, FL. (Sponsor: Dr. Michael J. Ormsbee, FACSM) (No relationships reported)
E-14  Thematic Poster - Rehab and Recovery in Skeletal Muscle and Connective Tissue

Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 101

2427  Chair: Matthew C. Kostek, FACSM. Duquesne University, Pittsburgh, PA.
(No relationships reported)

2428  Board #1  9:30 AM - 11:30 AM
Knee Morphology After Secondary Iliasplastic ACL Injury Compared to Those that Have Not Rejured
Lindsey K. Lepley1, Jessica E. Diigiacomo2, John A. Redman2, Riann M. Palmieri-Smith1. 1University of Connecticut, Storrs, CT. 2University of Michigan, Ann Arbor, MI.
Email: lindsey.lepley@uconn.edu
(No relationships reported)

2429  Board #2  9:30 AM - 11:30 AM
Focused Shockwave Therapy & Low Level Laser Therapy In Patella Tendinopathy Among German Soccer Players
Karsten Knobloch. SportPraxis Prof. Dr. Karsten Knobloch, Hannover, Germany.
Email: knobi@yahoo.com
(No relationships reported)

2430  Board #3  9:30 AM - 11:30 AM
Progenitor Cells From Cartilage: Grade Specific Differences In Stem Cells Markers Expression
Marija Mazor1, Annabelle Cesaro2, Mazen Ali2, Thomas M. Best, FACSM1, Eric Lepsessailles1, Hechmi Toumi1. 1Service de Rhumatologie, Centre Hospitalier Régional d’Orléans, La Source, France, Orleans, France. 2-Service chirurgie orthopédique et traumatologique Centre Hospitalier Régional d’Orléans, La Source, France, Orleans, France. 1Department of Orthopedics, Division of Sports Medicine, Miami, FL. (Sponsor: Thomas best, FACSM)
Email: hechmi.toumi@univ-orleans.fr
(No relationships reported)

2431  Board #4  9:30 AM - 11:30 AM
Relaxin Influences Knee Laxity Changes Across the Menstrual Cycle
Travis Anderson, Zachary Kincaid, Laurie Wideman, FACSM, Sandra J. Shultz, FACSM. University of North Carolina at Greensboro, Greensboro, NC. (Sponsor: Dr. Sandra J. Shultz, FACSM)
Email: t_ander2@uncg.edu
(No relationships reported)

2432  Board #5  9:30 AM - 11:30 AM
The Human Piriformis Muscle: Sensory, Postural, Or Just A Pain
Matthew C. Kostek, FACSM, Rachel Sweetnich, Tim Dusch. Duquesne University, Pittsburgh, PA.
Email: kostekm@duquesne.edu
(No relationships reported)

2433  Board #6  9:30 AM - 11:30 AM
William H. DuPont, Vincent H. Hardesty, Emily C. Barnhart, Brek J. Meuris, William J. Kraemer, FACSM. The Ohio State University, Columbus, OH. (Sponsor: William J. Kraemer, FACSM)
Email: dupont.35@osu.edu
(No relationships reported)

2434  Board #7  9:30 AM - 11:30 AM
Performance-related And Molecular Effects Of External Pneumatic Compression Treatment As An Adjuvant To Heavy, Voluminous Resistance Exercise
Cody Haun. Auburn University, Auburn, AL.
Email: cth0023@auburn.edu
(No relationships reported)

2420  Board #2  9:30 AM - 11:30 AM
Inadequate, Habitual Dietary Protein Intake Amid Inadequate Calorie Intake In Collegiate Female Gymnasts
William R. Lunn. Southern Connecticut State University, New Haven, CT.
Email: lunnw1@scsu.edu
(No relationships reported)

2421  Board #3  9:30 AM - 11:30 AM
Comparison Of Dietary Energy And Macronutrient Intakes Of Division III Athletes To Sports Nutrition Guidelines
Trisha Sterringer, Elizabeth Goecke, Haley Murrell, Erin Simon, Kristen Ruckstuhl, Madeline Deabler, Lynn Cialdella-Kam. Case Western Reserve University, Cleveland, OH.
(No relationships reported)

2422  Board #4  9:30 AM - 11:30 AM
Effect of Vitamin D Supplementation on 25(OH)D Status in Elite Athletes with Spinal Cord Injury
Kelly L. Pritchett1, Robert C. Pritchett1, Lauren Stark1, Elizabeth Broad2, Melissa LaCroix3. 1Central Washington University, Ellensburg, WA. 2US Olympic Committee, Chula Vista, CA. 3Canadian Sport Institute Pacific, Richmond, BC, Canada. (Sponsor: Enette Larson-Meyer, FACSM)
Email: kelly.pritchett@cwu.edu
(No relationships reported)

2423  Board #5  9:30 AM - 11:30 AM
Evaluation of Nutrient Intakes of Masters Athletes
Ritanne Duszak1, Jody L. Herman1, Emily N. Werner, 19102, Jacqui Van Grouw1, Rachel C. Kelley2, Francesco Alessio3, Micaela L. Bruneau1, Stella L. Volpe, FACSM. 1Drexel University, Philadelphia, PA. 2University of Florida, Gainesville, FL. (Sponsor: Enette Larson-Meyer, FACSM)
Email: ritanneo@gmail.com
(No relationships reported)

2424  Board #6  9:30 AM - 11:30 AM
Evaluating Diet Quality in SEAL Qualification Training Students
Kim Beals1, Matthew E. Darnell1, Mita Lovalekar1, John Haubenstricker2, Bradley C. Nindl, FACSM1. 1University of Pittsburgh, Pittsburgh, PA. 2John Haubenstricker, San Diego, CA. (Sponsor: Bradley C Nindl, FACSM)
Email: Beals.kim@pitt.edu
(No relationships reported)

2425  Board #7  9:30 AM - 11:30 AM
Behavioural Predictors Of Muscle Dysmorphia Symptomatology In Natural Bodybuilders
Lachlan Mitchell1, Stuart B. Murray2, Matthew Hoon3, Daniel Hackett4, Tania Pva5, Helen O’Connor1. 1University of Sydney, Sydney, Australia. 2University of the Sunshine Coast, Maroochydoore, Australia. 3University of California San Francisco, San Francisco, CA. 4Australian Catholic University, Canberra, Australia. 5Macquarie University, Sydney, Australia. (Sponsor: Melinda Manore, FACSM)
Email: lachlan.mitchell@sydney.edu.au
(No relationships reported)

2426  Board #8  9:30 AM - 11:30 AM
Water Loading in Combat Sport Athletes as a Means to Acutely Manipulate Body Mass
Reid Reale1, Jan Dunican2, Gary Slater3, Louise M. Burke, FACSM1. 1Australian Institute of Sport, Bruce, Australia. 2University of Western Australia, Perth, Australia. 3University of the Sunshine Coast, Maroochydoore, Australia. (Sponsor: Louise Burke, FACSM)
Email: reid.reale@ausport.gov.au
(No relationships reported)
American College of Sports Medicine

E-15  Free Communication/Slide - Balance, Slips, and Falls
Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 110

2435  Chair: Brandi Row Lazzarini. Willamette University, Salem, OR.
(No relationships reported)

2436  9:30 AM - 9:45 AM
Lower Limb Muscle Fatigue Perturbs Gait Balance during Dual-Task Walking
Szu-Hua (Teresa) Chen, Jocelyn Taylor, Li-Shan Chou. University of Oregon, Eugene, OR.
Email: szuhuac@uoregon.edu
(No relationships reported)

2437  9:45 AM - 10:00 AM
The Validity of the Zebris FDM System for Measuring Static Balance
Robert W. Gregory, Marc I. Robertson. Southern Connecticut State University, New Haven, CT.
Email: gregoryr3@southernct.edu
(No relationships reported)

2438  10:00 AM - 10:15 AM
The Influence Of Proximal Versus Distal Strength On Balance Control In Athletes Versus Non-athletes
Ikttesh K. Chahal, Morgan F. Meyer, Erica M. Casto, Jean L. McCrory, FACSM. West Virginia University, Morgantown, WV.
(Sponsor: Jean McCrory, FACSM)
Email: ichahal@mix.wvu.edu
(No relationships reported)

2439  10:15 AM - 10:30 AM
Limb Strength and Balance in Community-Dwelling Older Women
Yuanyuan Tian1, Jia Han1, Junpeng Zhu1, Liping Lu1, Roger Adams2, Judith Anson2, Gordon Waddington2. 1Shanghai University of Sport, Shanghai, China. 2University of Canberra, Canberra, Australia.
(No relationships reported)

2440  10:30 AM - 10:45 AM
Effects Of A Short, Intensive, Multi-component Physical Exercise Program In Elderly At Risk Of Falls
Antonio Sgadari, Alessandra Martina, Aluena Battaglioli, Roberto Bernabei. Catholic University Sacred Heart, Rome, Italy.
Email: antonio.sgadari@unicatt.it
(No relationships reported)

2441  10:45 AM - 11:00 AM
Relationship of Fall Risk Questionnaires to Computerized Dynamic Posturography in Older Adults: A Pilot Study
Cody Sipe, 72143; Brianne Hillier, Tyler Wolfe. Harding University, Scary, AR.
Email: csipe@harding.edu
(No relationships reported)

2442  11:00 AM - 11:15 AM
Treadmill-based Perturbation Training For Preventing Falls Among Young Adults
Email: pacereceres@miners.utep.edu
(No relationships reported)

2443  11:15 AM - 11:30 AM
A Cost-Effective Method for Repeated Slip Training Increases Recovery Rate Following Laboratory-Induced Slips
Leigh J. Allin1, Maury A. Nussbaum2, Michael L. Madigan1. 1Texas A&M University, College Station, TX. 2Virginia Tech, Blacksburg, VA.
(Sponsor: Kevin Davy, FACSM)
Email: lullinl@tamu.edu
(No relationships reported)

E-16  Clinical Case Slide - Foot and Ankle III
Friday, June 2, 2017, 9:30 AM - 11:10 AM
Room: 103

2444  Chair: Patrick Leary, FACSM. Lake Erie College of Osteopathic Medicine, Erie, PA.
(No relationships reported)

2445  9:30 AM - 9:50 AM
Medial Foot Pain in a Youth Soccer Player
Christine Bender1, Heather Gillespie, FACSM1, Abby Markham2. 1Maine Medical Center, South Portland, ME. 2Maine Medical Center, Falmouth, ME.
(Sponsor: Heather Gillespie, FACSM)
Email: alkhamisi.ashkan@mayo.edu
(No relationships reported)

2446  9:50 AM - 10:10 AM
Foot Injury in a Recreational Runner
Ashkan Alkhamisi, Glenn G. Shi. Mayo Clinic, Jacksonville, FL.
(Sponsor: George G.A. Pujalte, MD, FACSM)
Email: alkhamisi.ashkan@mayo.edu
(No relationships reported)

2447  10:10 AM - 10:30 AM
A Rare Cause of Foot Pain in an Adolescent Male Multisport Athlete
John Franco, Edward Laskowski, FACSM, Cara Prideaux. Mayo Clinic, Rochester, MN.
(Sponsor: Edward Laskowski, FACSM)
Email: franco.john@mayo.edu
(No relationships reported)

2448  10:30 AM - 11:00 AM
Not Your Average Ankle Injury
Hassen Berri, Phillip Troy Henning. University of Michigan, Ann Arbor, MI.
(Sponsor: Robert Kiningham, FACSM)
(No relationships reported)

2449  11:00 AM - 11:15 AM
Not Your Ordinary Ankle Sprain
Juraj Zahatnansky, Robert Baker, FACSM, Mark Sytana. Western Michigan University Homer Stryker M.D. School of Medicine, Kalamazoo, MI.
(Sponsor: Robert Baker, FACSM)
Email: juraj.zahatnansky@med.wmich.edu
(No relationships reported)
E-17 Clinical Case Slide - Hip and Pelvis II
Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 401

Chair: James Patrick MacDonald, FACSM. Nationwide Children’s Hospital, Bexley, OH.
(No relationships reported)

Discussant: Joshua T. Goldman. University of California, Los Angeles, Los Angeles, CA.
(No relationships reported)

9:30 AM - 9:50 AM
Hip Injury- Marathon
Jaimi Weber, Caroline Hu, William O. Roberts, FACSM, Kelly Roberts Lane, FACSM, Steven D. Stovitz, FACSM. University of Minnesota, Minneapolis, MN. University of Minnesota Medical School, Minnesota, MN. Fix It Physical Therapy, Mahimedi, MN.
(No relationships reported)

9:50 AM - 10:10 AM
Looking Beyond the Joints, An Uncommon Case of Hip Pain
Ronan Cahill, Adam pourcho. Swedish Medical Center, Seattle, WA.
Email: ronan.cahill@swedish.org
(No relationships reported)

10:10 AM - 10:30 AM
Adolescent Track Athlete with Acute Right Hip and Groin Pain
Erin Moix Grieb, Kyle Nagle. University of Colorado, Denver, CO.
(Sponsor: John Hill, FACSM)
(No relationships reported)

10:30 AM - 10:50 AM
Hip Pain in a Ballet Dancer
Sarah S. Jackson. Boston Children’s Hospital, Boston, MA.
(Sponsor: Pierre d’Heurtecourt, FACSM)
Email: ss.jackson25@gmail.com
(No relationships reported)

10:50 AM - 11:10 AM
Right Hip Pain in a 36 year old Ironman Athlete
Alan J. Boucher, MD, Joel Shaw, MD, Joe Simko, PT. OhioHealth Grant Medical Center, Columbus, OH.
(No relationships reported)

11:10 AM - 11:30 AM
Pelvic Injury in a 60 Year Old Rollerblader
Andrew Barclay. LECOM Sports Medicine, Erie, PA.
(Sponsor: Patrick F. Leary, FACSM)
(No relationships reported)

E-18 Clinical Case Slide - Knee I
Friday, June 2, 2017, 9:30 AM - 11:30 AM
Room: 402

Chair: Scott A. Magnes, FACSM. Lovell Federal Health Care Center, North Chicago, IL.
(No relationships reported)

Discussant: Gregory Maletis. Kaiser Permanente Hospital, Baldwin Park, CA.
(No relationships reported)

Discussant: Lisa Barkley, FACSM. University of Central Florida, Orlando, FL.
(No relationships reported)

2465 9:30 AM - 9:50 AM
Knee Injury- Ballet
Lindsay Ramey, Daniel Blatz. Rehabilitation Institute of Chicago, Chicago, IL. (Sponsor: Joseph Ihm, FACSM)
Email: lhr8@virginia.edu
(No relationships reported)

2466 9:50 AM - 10:10 AM
Knee Injury-jumping
Daniel P. Montero. Mayo Clinic Florida, Jacksonville, FL. (Sponsor: George Pujalce, FACSM)
(No relationships reported)

2467 10:10 AM - 10:30 AM
Right Knee Pain - Runner
Ryan C. Kruse, Jonathan Finnoff, FACSM. Mayo Clinic Rochester, MN. (Sponsor: Jonh Rubin, FACSM)
Email: kruse.ryan@mayo.edu
(No relationships reported)

2468 10:30 AM - 10:50 AM
Knee Pain - Soccer
Kenneth Y. Choi, Marissa S. Vasquez, Michael K. Fong. Kaiser Permanente Los Angeles Medical Center, Los Angeles, CA. (Sponsor: Tom Best, FACSM)
(No relationships reported)

2469 10:50 AM - 11:10 AM
Utility of Dynamic Sonographic Evaluation of Left Knee Pain & Locking in a Softball Catcher
Allison N. Schroeder, Kentaro Oriishi. University of Pittsburgh Medical Center (UPMC), Pittsburgh, PA. (Sponsor: Tom Best, FACSM)
Email: aschroe1@alumni.nd.edu
(No relationships reported)

2470 11:10 AM - 11:30 AM
Knee Pain - Basketball
Nailah Coleman, FACSM. Children’s National Health System, Washington, DC.
(No relationships reported)

E-19 Tutorial Lecture - Emerging Extreme Sports Injuries in Children
Friday, June 2, 2017, 9:30 AM - 10:20 AM
Room: 104

This tutorial will discuss emerging extreme sports including parkour, kite sports, free boarding, long boarding, and their injuries in children. The goal will be to introduce clinicians to sports that they may not be as familiar with and to give them information to treat patients who may present to the office with injuries sustained while participating in one of these sports.

2471 John Batson, FACSM. Lowcountry Spine & Sport, Hilton Head, SC.
(No relationships reported)

2472 Andrew Gregory, FACSM. Vanderbilt University, Nashville, TN.
(No relationships reported)

E-20 Tutorial Lecture - You Find What You Look For and You Look For What You Know: Expanding What You Look For
Friday, June 2, 2017, 9:30 AM - 10:20 AM
Room: 507

There are many painful musculoskeletal conditions which can be difficult to diagnose and treat because the symptoms and signs are subtle and specific. This session will discuss several relatively common conditions which are only apparent if you know how to look for them. It will discuss key points in the history and physical examination which will allow the correct diagnosis to be made. Conditions to be discussed include: First rib syndrome, cuboid dysfunction, nerve tension, popliteal artery entrapment, coraco-humeral impingement, gout, spinal stenosis and radiculopathy.
E-21  Clinical Workshop-Hands On Demonstration - Examination of the Foot and Ankle

Friday, June 2, 2017, 9:30 AM - 10:20 AM
Room: 501

The foot and ankle workshop will consist of a short didactic session, followed by a demonstration of anatomy, injuries, and etiologies of foot, ankle, and lower leg injuries. A brief session utilizing computerized gait and sway analysis will help to determine those injuries. Conditions such as Achilles, peroneal, and posterior tibial tenosynovitis, plantar fasciitis, shin splints, neuromas, sesamoid injuries, and stress fractures will be demonstrated. Conservative management vs. surgical intervention will also be demonstrated.

2474  Jeffrey A. Ross, FACSM. Baylor College of Medicine, Houston, TX
(No relationships reported)

E-22  Colloquium - Conditions That Are Not What They Seem: Case Based Show Stoppers

Friday, June 2, 2017, 10:40 AM - 11:30 AM
Room: 507

Cases seen by the speakers that were unusual and not expected will be presented. Pearls learned from the cases will enable the attendees to make correct diagnosis and treatment plans.

2475  Mark Hutchinson, FACSM. University of Illinois Chicago, Chicago, IL
(No relationships reported)

2476  Margot Putukian, FACSM. Princeton University, Princeton, NJ
(No relationships reported)

2477  Mary Lloyd Ireland, FACSM. University of Kentucky, Lexington, KY
(No relationships reported)

E-23  Clinical Workshop-Hands On Demonstration - Musculoskeletal Ultrasound of the Ankle and Foot

Friday, June 2, 2017, 10:40 AM - 11:30 AM
Room: 501

Diagnostic musculoskeletal ultrasound is quickly becoming an essential tool for the sports medicine provider. This point of care tool is inexpensive and efficiently utilized to evaluate athletes both in the clinic and training room. ankle and foot injuries are all too frequent in sport. Attendees will learn how to use musculoskeletal ultrasound to systematically and dynamically evaluate athletes with ankle and foot injuries. This will allow for a more accurate determination of the extent of injury which will assist in guiding subsequent treatment.

2478  Peter H. Seidenberg, FACSM. Penn State University, State College, PA
(No relationships reported)

2479  Jimmy D. Bowen, Southeast Missouri State University, Cape Girardeau, MO
(No relationships reported)

2480  Philip J. Bonha. Penn State University, State College, PA
(No relationships reported)
P170 Final Program

2488 Board #8 9:30 AM - 11:00 AM Cerebral Pulsatility and Habitual Exercise Adam T. Corkery1, Kathleen B. Miller2, Ronée E. Harvey2, Anna J. Howery1, Jill N. Barnes3. 1University of Wisconsin-Madison, Madison, WI. 2Mayo Clinic College of Medicine, Rochester, MN. (Sponsor: Michael J. Joyner, FACSM) (No relationships reported)

2489 Board #9 9:30 AM - 11:00 AM Cerebral Autoregulation and Habitual Exercise in Young Healthy Adults Kathleen B. Miller1, Ronée E. Harvey2, Anna J. Howery1, Athena E. Golfinos1, Alexia E. Carl1, Jill N. Barnes3. 1University of Wisconsin-Madison, Madison, WI. 2Mayo Clinic College of Medicine, Rochester, MN. (Sponsor: Michael J. Joyner, FACSM) (No relationships reported)

2490 Board #10 9:30 AM - 11:00 AM Association Between Habitual Physical Activity and Mechanical Pain Sensitivity in Healthy Adults Katrina Maluf, Jaime Zinn, Luisa Davila-Pablo, Paige Kettenburg. San Diego State University, San Diego, CA. Email: kmaluf@mail.sdsu.edu (No relationships reported)

2491 Board #11 9:30 AM - 11:00 AM Effect of Exercise Training on Cerebral Microcirculation in Men with and without Type 1 Diabetes Antti-Pekka E. Rissanen1, Heikki O. Tikkanen2, Anne S. Koponen1, Jyrki M. Aho1, Juha E. Peltonen3. 1University of Eastern Finland, Kuopio, Finland. 2Foundation for Sports and Exercise Medicine, Helsinki, Finland. Email: anti-pekka.rissanen@helsinki.fi (No relationships reported)

2492 Board #12 9:30 AM - 11:00 AM Aerobic Exercise Training and Dynamic Cerebral Autoregulation in Patients with Mild Cognitive Impairment Takashi Tanimi1, Chang-Yang Xing2, Marcel Turner2, Justin Repsha3, Rong Zhang4. 1UT Southwestern Medical Center, Dallas, TX. 2Texas Health Presbyterian Hospital Dallas, Dallas, TX. Email: takati@gmail.com (No relationships reported)

2493 Board #13 9:30 AM - 11:00 AM Effects Of Aerobic And Resistance Exercise On Cognitive Function. Takaaki Komiyama1, Kenji Ando2, Mizuki Sado2, Ryuji Takigawa2, Kazunori Ohkawara1, Yoshinari Uehara1, Hiroaki Tanaka3, Yusaku Higaki1, Soichi Ando4. 1Fukuoka University, Fukuoka, Japan. 2The University of Electro-Communications, Tokyo, Japan. 3Meiji Yasuda Life Foundation of Health and Welfare, Tokyo, Japan. Email: anti-pekka.rissanen@helsinki.fi (No relationships reported)

2494 Board #14 9:30 AM - 11:00 AM Lifespan Physical Activity Profile, Cognitive Function And Brain Metabolism In Old Age Tobias Engeroff, Lutz Vogt, Johannes Fleckenstein, Eszter Füzöki, Silke Matura, Ulrich Pilatus, Sina Schwarz, Johannes Pantel, Winfried Banzer, FACSM. Goethe University, Frankfurt, Germany. (Sponsor: Winfried Banzer, FACSM) Email: Engeroff@sport.uni-frankfurt.de (No relationships reported)

2495 Board #15 9:30 AM - 11:00 AM Vascular Function And Progression Of Alzheimer’s Disease Massimo Venturelli1, Anna Pedrinolla1, Cristina Fonte1, Lucia Crispoltini1, Maria Vittoria Benetti1, Stefano Tamburin1, Mario Rende2, Nicola Smania1, Federico Scelena1. 1University of Verona, Verona, Italy. 2University of Perugia, Perugia, Italy. Email: massimo.venturelli@univr.it (No relationships reported)

2496 Board #16 9:30 AM - 11:00 AM Cognitive Function is Preserved in Aged Mice Following Long-term HMB Supplementation Michael Munroe, Ziad Mahmassani, Svyatoslav Dvoretskyi, Justin Rhodes, Marni D. Boppart, FACSM. University of Illinois at Urbana-Champaign, Champaign, IL. (Sponsor: Marni Boppart, FACSM) Email: mmunro2@illinois.edu (No relationships reported)

2497 Board #17 9:30 AM - 11:00 AM Learning To Suffer: High- But Not Moderate-intensity Training Increases Pain Tolerance: Results From A Randomised Study Martyn G. Morris1, Johnny Collett2, Ken Howells1, Thomas O’Leary1. 1Coventry University, Coventry, United Kingdom. 2Oxford Brooks University, Oxford, United Kingdom. Email: martyn.morris@coventry.ac.uk (No relationships reported)

2498 Board #18 9:30 AM - 11:00 AM Maximal Aerobic Exercise Alters Plasma BDNF And BDNF Expression In PBMCs In Obese And Non-obese Gabriel Pena, Arun Maharaj, Chung-Jung Huang, FACSM, Michael C. Zourdos, Aaron L. Shasher, Michael Whitehurst, FACSM. Florida Atlantic University, Boca Raton, FL. (Sponsor: Michael Whitehurst, FACSM) (No relationships reported)

2499 Board #19 9:30 AM - 11:00 AM The Effect of Two Types of Suspension and Unsuspension Resistance Training on Salivary Bdnf of Preadolescence Children Rana Fayazmilani, aynaz pourmotahari, Ahab Abbasi, Shahid Beheshti University, Tehran, Iran, Islamic Republic of. Email: r.milani@sbu.ac.ir (No relationships reported)

2500 Board #20 9:30 AM - 11:00 AM Acute Forced Exercise Increases Expression of Bdnf IV and Induces Anxiety-Like Behavior in C57BL/6 Mice Andrew C. Venezia1, Molly M. Hyer1, Erica R. Glasper1, Elizabeth Quinlan1, Stephen M. Roth, FACSM2. 2The University of Scranton, SCRANTON, PA. 3University of Maryland, College Park, MD. Email: andrew.venezia@scranton.edu (No relationships reported)

2501 Board #21 9:30 AM - 11:00 AM Exercise Attenuates Chronic Unpredictable Mild Stress Induced Brain Microvascular Rarefaction In Obese Zucker Rat: Role Of Stat3 Signaling Shinichi Asano1, Mariah L. Dowson1, Whitney J. Sheets1, Ashlee N. Seldomridge2, Kayla W. Branyan1, Evan R. DeValencie2, Jefferson C. Frisbee3, Paul D. Chantler2. 1Fairmont State University, Fairmont, WV. 2West Virginia University, Morgantown, WV. (No relationships reported)

2502 Board #22 9:30 AM - 11:00 AM Effects of Voluntary Wheel Running Exercise on the Circadian Alterations of Neuroendocrine Induced by Chronic Unpredictable Mild Stress in Rats Yan Zhao, Yu Fu. Cheng Du Sport University, Cheng Du, China. (No relationships reported)

2503 Board #23 9:30 AM - 11:00 AM Long-term Treadmill Exercise Reduces Obesity-induced Tau Hyperphosphorylation In Rat Brain Guoliang Fang1, Ye Tian2, Jinxia Zhao3, Zihong He1, Liang Li1, Xingya Yang1, Pengfei Li1, Tao Yu1, Yueming Wei1. 1China Institute of Sport Science, Beijing, China. 2China Anti-Doping Agency, Beijing, China. (No relationships reported)
Board #24 9:30 AM - 11:00 AM
Role Of Neuronal Fractalkine In Reducing Diet-induced Hypothalamic Inflammation
Robby Zacharias Tom, Yuanqin Gao, Sonja C. Schriver, Dominik Lutter, Chun-Xia Yi, Matthias Tschöp, Susanna M. Hofmann. Helmholtz Zentrum, München, Germany. Email: robbi.tom@helmholtz-muenchen.de
(No relationships reported)

Board #25 9:30 AM - 11:00 AM
Voluntary Exercise and Voluntary Exercise of Energy Homeostasis-related Genes in Hypothalaminus of High-fat Diet Fed Mice
Francesc P. Carvalho, Thais L. Moretto, Izabelle D. Benfato, Marcela Barthichoto, Camila A. M. Oliveira. Federal University of Sao Paulo, Santos, Brazil. Email: carvalho.frannp@gmail.com
(No relationships reported)

Board #26 9:30 AM - 11:00 AM
Regulation Of Hypothalamic Expression Of Kiss-lan Gp54 Genes Mrna By Moderate-intensity Exercise In Diet Induced Obesity Rats
Yi Yan, Rui Xu. Beijing Sport University, Beijing, China. Email: yanyi22@ sina.com
(No relationships reported)

Board #27 9:30 AM - 11:00 AM
Hypothalamic Leptin Signaling Modules Spontaneous Physical Activity During Ageing in Mice.
Izabelle Dias Benfato1, Francine Pereira De Carvalho, MSC1, Thaís Ludmilla Moretto, MSC1, Marcela Barthichoto, MSC1, Sandra Mara Ferreira, PhD1, José Maria Costa Junior, PhD1, Carolina Martinez, MSC1, Carolina Prado de França Carvalho, PhD1, Camila Aparecida Machado de Oliveira, PhD1, 2FEDERAL UNIVERSITY OF SÃO PAULO, SANTOS, BRAZIL. 3STATE UNIVERSITY OF CAMPINAS, CAMPINAS, BRAZIL. Email: izabelle.benfato@gmail.com
(No relationships reported)

Board #28 9:30 AM - 11:00 AM
Influences Of Swimming On Learning And Memory And Expression Of Orexin Aad Ncam In Rat Hippocampus
Qiongjia Yuan, Female1, Yeting Zhang, Male1, Xue Li, Female1, Lai Wang, Female1, 1Chenghu University, Chengdu, China. 2Chengdu University, Chengdu, China.
(No relationships reported)

Board #29 11:00 AM - 12:30 PM
An Analysis of Female Athlete Triad Components in Elite Para-Athletes
Cheri A. Blauwet1, Emily M. Brook1, Adam S. Tenforde1, Elizabeth Broad1, Elizabeth G. Matzkin1. 1Brigham and Women’s Hospital/ Harvard Medical School, Boston, MA. 2United States Olympic Committee, Chula Vista, CA. 
(No relationships reported)

Board #30 11:00 AM - 12:30 PM
Sex Differences in Competition Volume, Club Sport Participation, Specialization, and Injury Among High School Athletes
Eric G. Post, David R. Bell, Stephanie M. Trigsted, Dan A. Schaefer, Madeline M. Miller, Adam Y. Pfaffl, Scott B. Hetzel, M. Alison Brooks, Timothy A. McGuine, University of Wisconsin-Madison, Madison, WI. 
(No relationships reported)

Board #31 11:00 AM - 12:30 PM
Chronic Training Load, But Not Stress Or Sleep, Is An Independent Predictor Of Illness In Female Youth Athletes
Andrew Watson, Stacey Brickson, Warren Dunn. University of Wisconsin-Madison, Madison, WI. Email: watson@ortho.wisc.edu
(No relationships reported)

Board #32 11:00 AM - 12:30 PM
Influence Of Year In School On Health-related Quality Of Life Among Collegiate Athletes
Jennifer L. Sanfilippo, Liga A. Blyholder, Timothy A. McGuine, Bryan C. Heiderscheit. UW-Madison, Madison, WI. (Sponsor: Joseph Weir, FACSM)
(No relationships reported)

Board #33 11:00 AM - 12:30 PM
In-season Injury And Health-related Quality Of Life Among Collegiate Athletes
Email: blyholder@ortho.wisc.edu
(No relationships reported)

Board #34 11:00 AM - 12:30 PM
The Assessment Of Body Composition In Young Athletes
Giorgio Galanti, Benedetta Tosi, Martina Bocci, Giulio Tempesti, Gabriele Mascherini, Petri Cristian. Sport Medicine Center, Florence, Italy. Email: giorgio.galanti@unifi.it
(No relationships reported)

Board #35 11:00 AM - 12:30 PM
A Wellness Program for Older Female Golfers: Effects on Golf Performance and Range of Motion
Katherine James, Michael Rabel, Lorraine Lacoppola, Erin Raest. University of Maryland Eastern Shore, Princess Anne, MD. (No relationships reported)

Board #36 11:00 AM - 12:30 PM
Investigating the Acute Effects of Olympic-style Boxing Among Females
David R. Howell1, William P. Meehan, III1, Michael P. Loosemore2, Joseph Cummiskey1, Jean-Paul Grabner von Rosenberg3, David McDonough4. 1Boston Children’s Hospital, Boston, MA. 2University College Hospital London, London, United Kingdom. 3ABCA, Lausanne, Switzerland. 4St.Olavs Hospital, Trondheim, Norway. (Sponsor: Lou Ostering, FACSM) Email: david.howell2@childrens.harvard.edu
(No relationships reported)

Board #37 11:00 AM - 12:30 PM
The Influence Of Oral Contraceptives On Subjective Physical Condition And Athletic Performance In Japanese Female Athletes.
Mariko Nakamura, Sayaka Ogura-Nose. Japan Institute of Sports Sciences, Tokyo, Japan. (No relationships reported)

Board #38 11:00 AM - 12:30 PM
The Prevalence and Impact of Heavy Menstrual Bleeding Among Exercising Women.
Allyson L. Parziale1, Georgie Bruinvels2, Toby Richards3, Charles R. Pedlar4, Kathryn E. Ackerman, FACSM3. 1Boston Children’s Hospital, Boston, MA. 2University College London, London, United Kingdom. 3Massachusetts General Hospital, Boston, MA. (Sponsor: Kathryn Ackerman, FACSM) Email: allyson.parziale@childrens.harvard.edu
(No relationships reported)
**P172  Final Program**

**2519 Board #39  11:00 AM - 12:30 PM**

**Preliminary Evidence Of Sub-optimal Sleep Durations In Trained Middle Eastern Adolescent Soccer Players**
Email: lee.taylor@aspetar.com
(No relationships reported)

**2520 Board #40  11:00 AM - 12:30 PM**

**Influence of Sports Participation and Bone Stress Injury Anatomical Location on Low Bone Mineral Density in Male Athletes**
Adam S. Tenforde1, Allyson L. Pariziale2, Kathryn E. Ackerman, FACSM. 1Spaulding Rehabilitation Hospital, Charlestown, MA. 2Boston Children’s Hospital, Boston, MA. (Sponsor: Kathryn Ackerman, FACSM)
(No relationships reported)

**2521 Board #41  11:00 AM - 12:30 PM**

**Pediatric and Adult CrossFit Injuries Presenting to a Sports Medicine Clinic**
Bridget J. Quinn, Rebecca L. Zwicker, Dae Sugimoto, Andrea A. Straccioli, FACSM. Children’s Hospital Boston, Boston, MA. (Sponsor: Andrea Straccioli, FACSM)
(No relationships reported)

**2522 Board #42  11:00 AM - 12:30 PM**

**Injury Epidemiology at Multi-Day Youth Soccer Tournaments**
Ariel Kiyomi Daoud, Elyce Lamphere, Kayla Bumim, Anne Skelton, Julie C. Wilson. Children's Hospital Colorado, Aurora, CO.
(No relationships reported)

E-26  Free Communication/Poster - Behavioral Aspects of Sport

**Friday, June 2, 2017, 7:30 AM - 12:30 PM**

**Room: Hall F**

**2524 Board #44  11:00 AM - 12:30 PM**

**Effect of Yoga, Meditation or Body Awareness on Sports Performance and Attention in Futsal Players**
Email: marcio.cascante@ucr.ac.cr
(No relationships reported)

**2525 Board #45  11:00 AM - 12:30 PM**

**The Utilization of Different Cues in Visual Anticipation in Skilled Table Tennis Players**
Chenglin Zhou, Yingzhi Lu, Yingying Wang, Qiqi Yang. Shanghai University of Sport, Shanghai, China.
Email: chenglin.600@126.com
(No relationships reported)

**2526 Board #46  11:00 AM - 12:30 PM**

**Socially Prescribed Perfectionism Might Predict Enhanced Performance When Racing Against an Opponent**
Lieke Schiphof-Godart1, Marco J. Konings2, Florentina J. Hettinga1.
1University of Groningen, Groningen, Netherlands. 2University of Essex, Colchester, United Kingdom. (Sponsor: Carl Foster, FACSM)
Email: l.schiphof@umcg.nl
(No relationships reported)

**ACSM 64th Annual Meeting**

**2527 Board #47  11:00 AM - 12:30 PM**

**Exploring Parental Preferences for Choosing Youth Flag or Tackle Football**
Mallory McElroy1, Katie Stephenson-Brown1, Samantha Mohler1, Nathan D’Amico1, Anthony Kontos1, R.J. Elbin1. 1University of Arkansas, Fayetteville, AR. 2University of Pittsburgh, Pittsburgh, PA.
Email: mmcelroy@uark.edu
(No relationships reported)

**2528 Board #48  11:00 AM - 12:30 PM**

**Pain Coping Skills of Competitive High School Pole Vaulters**
Joshua T. Holland, Cody M. Smart, Michael C. Meyers, FACSM. Idaho State University, Pocatello, ID.
(No relationships reported)

**2529 Board #49  11:00 AM - 12:30 PM**

**Influence of Parent and Child Concussion History on Parental Knowledge and Attitudes Regarding Concussion**
Melissa C. Kay1, John K. Register-Mihalki1, Richelle M. Williams2, Jason P. Mihalik1, Tamara C. Valovich McLeod3. 1University of North Carolina - Chapel Hill, Chapel Hill, NC. 2A.T. Still University, Mesa, AZ.
Email: mkay@email.unc.edu
(No relationships reported)

**2530 Board #50  11:00 AM - 12:30 PM**

**Prevalence Of Muscle Dysmorphia In Male and Female NCAA Division III Athletes.**
Greg Farnell. John Carroll University, University Heights, OH. (Sponsor: Ellen Glickman, FACSM)
(No relationships reported)

**2531 Board #51  11:00 AM - 12:30 PM**

**Coach-identified Barriers To Removing Athletes With Concussion Symptoms From Play: Implications For Concussion Education**
Emily Kroshus, 98121. University of Washington, Seattle, WA.
(No relationships reported)

**2532 Board #52  11:00 AM - 12:30 PM**

**Factors That Predict Grit In Collegiate Athletes During The Competitive Season**
Mindy H. Mayol1, Urska Dobersek2, K. Lee Everett1, Matthew D. Beekley, FACSM. 1University of Indianapolis, Indianapolis, IN. 2University of Southern Indiana, Evansville, IN. (Sponsor: Carl Foster, FACSM)
Email: irmayol@uindy.edu
(No relationships reported)

**2533 Board #53  11:00 AM - 12:30 PM**

**Sport: Relationship Between Age And Skills Perceived By Children Sport Practitioners**
Iranné Oliveira-Silva, Bianca da Silva Peres, Fábio Santana. UNIEVANGÉLICA, ANÁPOLIS, Brazil. (Sponsor: Carl Foster, FACSM)
Email: irannoeoliveira@hotmail.com
(No relationships reported)

**2534 Board #54  11:00 AM - 12:30 PM**

**Athletic Coping Skills of the Competitive High School Pole Vaulter**
Cody M. Smart, Joshua T. Holland, Michael C. Meyers, FACSM. Idaho State University, Pocatello, ID.
(No relationships reported)

**2535 Board #55  11:00 AM - 12:30 PM**

**Adolescent Behavior Regarding Concussion**
Brent Harper, Ken Cox, Angela Mickle, Alex Sislyu, Cameron Holshouser, Adrian Aron. Radford University, Roanoke, VA. (Sponsor: Lynn Millar, FACSM)
Email: bharper2@radford.edu
(No relationships reported)
American College of Sports Medicine

Board #56 11:00 AM - 12:30 PM
Assessment of Disordered Eating and Orthorexia Nervosa in Endurance Athletes Following Gluten and Wheat-free Diets
Sarah E. Weber1, Margaret M. Harris1, Hattie H. Wright1, Melinda M. Manore, FACSM2. 1University of Colorado-Colorado Springs, Colorado Springs, CO. 2University of the Sunshine Coast, Sunshine Coast, Australia. (No relationships reported)

Board #57 11:00 AM - 12:30 PM
Psychological Follow-up of 6 Months Training for a Half Ironman Triathlon
Vincent Gosselin Boucher, François Lalonde, Alain Steve Corrtois. Université du Québec à Montréal, Montréal, QC, Canada. (Sponsor: Jean-Pierre Boucher, FACSM)

Board #58 11:00 AM - 12:30 PM
Vitamin D, Serum Ferritin, and College Athlete Burnout: A Pilot Study
Brigid Byrd1, Jeffrey Martin1, Kristen Landis-Piwowar2, Carrie Apriti1, Tamara Hew-Butler, FACSM3. 1Wayne State University, Detroit, MI. 2Oakland University, Rochester, MI. (Sponsor: Tamara Hew-Butler, FACSM)

Board #59 11:00 AM - 12:30 PM
Role Of Stressors In Physiological And Psychological Parameters Associated With Golf Playing
Samantha Bernardi. University of Pavia, Pavia, Italy. Email: samantha.bernardi@unipv.it (No relationships reported)

Board #60 11:00 AM - 12:30 PM
Psychophysiologic Stress In Women Athletes
Ivette Balen1, Maressa P. Krause1, Birgit Keller2, Carla Cristina Taglieri1, Cintia L. N. Rodacki1, Ricardo W. Coelho2. 1UFPR, Curitiba, Brazil. 2UFPR, Curitiba, Brazil. 3ARESC, Curitiba, Brazil. Email: ivetebalen@gmail.com (No relationships reported)

Board #61 11:00 AM - 12:30 PM
Modifications Of Negative Attitudes Toward Obesity In Pre-professionals Of Exercise Sciences.
Edda Lorenzo-Bertheau1, Francisco Cruz-Quintana2, Athanasios Pappou1, Yaira Barranco3, Athanasios Papadakis3, Yaira Barranco3. 1University of Mississippi, University, MS. 2University of Sao Paulo, Sao Paulo, Brazil. 3University of Sao Paulo, Sao Paulo, Brazil. Email: eloreno@umc.edu (No relationships reported)

Board #62 11:00 AM - 12:30 PM
Perceived Stress has a Negative Impact on Variables Related to Exercise Recovery in Adolescent Athletes
Katelyn A. Born, Erin E. Dooley, Andy Cheshire, John B. Bartholomew, FACSM. University of Texas, Austin, TX. (Sponsor: John Bartholomew, FACSM)

Board #63 11:00 AM - 12:30 PM
Sex Differences in Perceived Achievement after an ACL Injury Prevention and Yoga Program
Kirsten R. Buchanan1, Carly A. Keafer1, Alison E. Newell1, Karissa M. Wells1, Irene S. Davis, FACSM. 1University of New England, Portland, ME. 2Harvard Medical School, Cambridge, MA. (Sponsor: Irene Davis, FACSM)

Board #64 11:00 AM - 12:30 PM
Lived Experiences of College Athletes Misuse of Drinking Alcohol with their Teams: A Phenomenological Study
Debra L. Fetherman, Joan A. Cebrick-Grossman. The University of Scranton, Scranton, PA. Email: debra.fetherman@scranton.edu (No relationships reported)

Board #65 11:00 AM - 12:30 PM
The Psychological Parameters of Sports Related Injuries in Female Collegiate Athletes
Courtney Stewart-Reiner. Valparaiso University, Valparaiso, IN. Email: courtneystewartreiner@gmail.com (No relationships reported)

Board #66 11:00 AM - 12:30 PM
Health and Well-being Mindset and Behavior Patterns: A Qualitative Analysis of Swim Coaches
Krista M. Keizers1, Bridget M. Miller1, Jamie C. Clark1, Suraj Vadhu Sivakumar2. 1Oklahoma State University, Stillwater, OK. 2Barry University, Miami Shores, FL. Email: krista.keizers@okstate.edu (No relationships reported)

Board #67 11:00 AM - 12:30 PM
Underserved Boys' Self-efficacy, Face Performance and Ethnicity In A Summer Sports Camp
Yiyu Wang. Texas A&M University, College Station, TX. (Sponsor: Zan Gao, FACSM)

Board #68 9:30 AM - 11:00 AM
Are Higher Blood Flow Restriction Pressures More Beneficial When Lower Loads Are Used?
Jeremy P. Loenneke, Scott J. Dankel, Matthew B. Jessee, Samuel L. Buckner, John T. Matttokes. The University of Mississippi, University, MS. (No relationships reported)

Board #69 9:30 AM - 11:00 AM
The Acute Muscular Responses to Blood Flow Restricted Exercise Using Low and High Relative Pressures
Matthew B. Jessee1, Kevin T. Matttokes1, Brittany R. Counts2, Samuel L. Buckner1, J Grant Mouser1, Scott J. Dankel1, Gilberto C. Laurentino1, Jeremy P. Loenneke1. 1The University of Mississippi, University, MS. 2University of South Carolina, Columbia, SC. (No relationships reported)

Board #70 9:30 AM - 11:00 AM
Effects of Different Levels of Blood Flow Restriction on Arterial Occlusion Pressure and Perceptual Responses
Kevin T. Matttokes1, Matthew B. Jessee1, Brittany R. Counts2, Samuel L. Buckner1, J Grant Mouser1, Scott J. Dankel1, Gilberto C. Laurentino1, Jeremy P. Loenneke1. 1The University of Mississippi, University, MS. 2University of South Carolina, Columbia, SC. 3University of Sao Paulo, Sao Paulo, Brazil. (No relationships reported)

Board #71 9:30 AM - 11:00 AM
Cardiovascular And Perceptual Responses To Various Blood Flow Restriction Pressures And Exercise Loads
Scott J. Dankel, Matthew B. Jessee, Samuel L. Buckner, J Grant Mouser, Kevin T. Matttokes, Jeremy P. Loenneke. The University of Mississippi, University, MS. (No relationships reported)
2559 Board #79 9:30 AM - 11:00 AM
Comparison of Heart Rate Variability in Intercollegiate Explosive Power vs. Sustained Power and Endurance Athletes
Alex Claiborne, Helaine M. Alessio, 45056, FACS, Eric Slattery, Emma Nilsson, Ron H. Cox, Edwin Barth. Miami University, Oxford, OH. (Sponsor: Helaine Alessio, FACS)
Email: chaitob@miamioh.edu
(No relationships reported)

2560 Board #80 9:30 AM - 11:00 AM
Effect of the Muscle Metaboreflex on Heart Rate Kinetics during the Exercise Transient Spanning the Entire Moderate Intensity Domain
Dana S. Lahti1, Natasha G. Boyes1, Josie T.J. Fries1, Paul J. Fadel2, Corey R. Tomczak1. 1University of Saskatchewan, Saskatoon, SK, Canada. 2University of Texas at Arlington, Arlington, TX. (Sponsor: Paul J Fadel, FACS)
(No relationships reported)

2561 Board #81 9:30 AM – 11:00 AM
Cardiac Autonomic and Blood Pressure Responses to an Acute Bout of Kettlebell Exercise
Alexei Wong1, Michael Nordvall1, Michelle Walters-Edwards1, Kevin Lastova1, Gwendolyn Francaivilla1, Jennifer Tripken1, Arturo Figueroa, FACS2, 1Marymount University, Falls Church, VA. 2Florida State University, Tallahassee, FL. (Sponsor: Arturo Figueroa, FACS)
Email: awong@marymount.edu
(No relationships reported)

2562 Board #82 9:30 AM – 11:00 AM
Acute Resistance Exercise Effects on Autonomic Modulation Between Resistance-Trained Men and Women
Alaina Glasgow, Erica Marshall, Yu Lun Tai, J. Derek Kingsley, Kent State University, Kent, OH. (Sponsor: Ellen L. Glickman, FACS)
(No relationships reported)

2563 Board #83 9:30 AM – 11:00 AM
The Effects Of Ultra-endurance Event Participation On Biomarkers Of Cardiac Damage - A Systematic Review And Meta-analysis
Steven E. Safille1, Hayley V. MacDonald2, Michael V. Fedewa2, James M. Smoliga1. 1High Point University, High Point, NC. 2University of Alabama, Tuscaloosa, AL. (Sponsor: Gerald Zavorsky, FACS)
Email: jsmoliga@highpoint.edu
(No relationships reported)

2564 Board #84 9:30 AM – 11:00 AM
Influence of Exercise Mode on Post-Exercise Indices Reflecting Cardiac Parasympathetic Reactivation and Sympathetic Withdrawal
Scott W. Michael1, Ollie Jay, FACS, Kenneth S. Graham1, Glen M. Davis, FACS2, 1University of Sydney, Sydney, Australia. 2New South Wales Institute of Sport, Sydney, Australia. (Sponsor: Prof. Glen Davis, FACS)
Email: scott.michael@sydney.edu.au
(No relationships reported)

2565 Board #85 9:30 AM – 11:00 AM
Early Life Nutrition Alters the Electrocardiogram of Adult Mice with Dobutamine Stimulation
Joseph R. Visker, David P. Ferguson. Michigan State University, East Lansing, MI.
Email: viskerjo@msu.edu
(No relationships reported)

2566 Board #86 9:30 AM – 11:00 AM
Cardiac Autonomic Response to Handgrip Exercise Performed with and without Blood Flow Restriction
Kimberly E. Allen, Edward T. Kelley, Jeffrey D. Miller, Daniel P. Credeur. University of Southern Mississippi, Hattiesburg, MS.
Email: kimberly.e.allen@usm.edu
(No relationships reported)
Board #87  9:30 AM - 11:00 AM
Multi-layer Myocardial Mechanics In The Athlete’s Heart
Glenn Stewart1, Surendran Sabapathy2, Bryce Balmain3, Bruce Johnson1. 1Mayo Clinic, Rochester, MN. 2Griffith University, Gold Coast, Australia.
Email: stewart.glenn@mayo.edu
(No relationships reported)

Board #88  9:30 AM - 11:00 AM
Cardiac Autonomic Modulation and High Intensity Interval Training in Physically Inactive Men
Jamie M. O’Driscoll, Steven Wright, Katrina A. Taylor, Damian D. Coleman, Jim D. Wiles, Jim D. Wiles. Canterbury Christ Church University, Canterbury, United Kingdom.
Email: janie.odriscoll@canterbury.ac.uk
(No relationships reported)

Board #89  9:30 AM - 11:00 AM
Post-exercise Heart-rate Recovery Correlates To Resting Parasympathetic Modulation In Apparantly Healthy Men
Guilherme E. Molina1, Keila E. Fontana1, Giliard L. Garcia1, Carlos J. G. da Cruz2, Edgar M. K. V. Koares3, Luiz G. G. Porto4, Luiz F. Junesqueira4. 1University of Brasilia- UnB, BRASILIA, Brazil.
Email: corey.tomczak@usask.ca
(No relationships reported)

Board #90  9:30 AM - 11:00 AM
Long-term Intensive Exercise Induced Atrial Fibrosis Is Associated With Tgfβ1-Mir-21 Signaling Pathway
Yun Chang, China institute of sport science, beijing, China.
Email: changyun2518@vip.sina.com
(No relationships reported)

Board #91  9:30 AM - 11:00 AM
Muscle Metaboreflex Modulation of Heart Rate Kinetics During the Transition to Low-Moderate and High-Moderate Exercise Intensities
Natasha G. Boyes1, Josie T.J. Fries1, Stephanie Fusnik1, Paul J. Fadel, FACSFM, Corey R. Tomczak1. 1University of Saskatchewan, Saskatoon, SK, Canada. 2University of Texas at Arlington, Arlington, TX. (Sponsor: Paul J Fadel, FACSFM)
(No relationships reported)

Board #92  9:30 AM - 11:00 AM
Test-retest Reliability of Female Heart Rate Variability
Meghan Murley, Charles R. Marks, Jacqueline S. Drouin. Oakland University, Rochester, MI. (Sponsor: Steven Keteyian, FACSFM)
(No relationships reported)

Board #93  9:30 AM - 11:00 AM
Left Atrial Enlargement is Related to Diastolic Dysfunction in Obese Individuals
Norman N. Aiad, Michinari Hieda, Satyam Sarma, Benjamin Levine, FACSFM. UT Southwestern Medical Center, Dallas, TX. (Sponsor: Benjamin Levine, FACSFM)
Email: Norman.Aiad@utsouthwestern.edu
(No relationships reported)

Board #94  9:30 AM - 11:00 AM
Doppler Measurement of Parasternal Aortic Blood Flow Velocity: A Pilot Study
Evans L. Matthews, Stephanie A. Guarino, Jennifer M. Masidko, Peter A. Hosick. Montclair State University, Montclair, NJ.
Email: matthewse@mail.montclair.edu
(No relationships reported)

Board #95  9:30 AM - 11:00 AM
Cardioprotective Benefits Associated With Routine Physical Activity In Middle Aged Population
Stephen Gagnon, Benjamin Skutnik, Joel Greenshields, Maleah Holland, Joel Stager, FACSFM. Indiana University, Bloomington, IN. (Sponsor: Joel Stager, FACSFM)
Email: sgagnon@indiana.edu
(No relationships reported)
Board #102
The Muscle Metaboreflex Improves Post Exercise Blood Pressure Responses in Children after the Fontan Operation
Stephanie Fusnik1, Michael K. Stickland1, Natasha G. Boyes1, Elizabeth Hogewoede1, Mark J. Haykowsky1, Shonah Runalls1, Ashok Kakadekar1, Scott Pharis1, Charissa Pockent1, Kristi D. Wright1, Marta Erlandson1, Timothy J. Bradley1, Corey R. Tomczak1.
1University of Saskatchewan, Saskatoon, SK, Canada. 2University of Alberta, Edmonton, AB, Canada. 3University of Texas Arlington, Arlington, TX. 4University of Regina, Regina, SK, Canada. (Sponsor: Paul J Fadel, FACSM)
Email: stephanie.fusnik@usask.ca
(No relationships reported)

Board #103
Race Effect On Improved Aerobics Efficiency In Pediatric Obese Patients After A Weight Management Program
Sandra K. Knecht, Wayne A. Maya, Michelle A. Amos, Yvette M. Gerides, Clifford Chin. Cincinnati Children’s Hospital, Cincinnati, OH.
Email: sandy.knecht@cchmc.org
(No relationships reported)

Board #104
Relationship between Self-Reported Physical Activity Levels and Exercise Capacity in Pediatric Fontan Patients
Kelli Teson, David White, Jessica Hall, Suman Goudar. The Children’s Mercy Hospital, Kansas City, MO.
Email: kmteson@cmh.edu
(No relationships reported)

Board #105
Adolescent Children Born Preterm Have An Inhibited Stroke Volume And Cardiac Output Response To Exercise
Kristin Haraldsdottir, Andrew Watson, Arj Beshish, Laura Tetri, Kara Goss, Mari Paltta, Marlowe Eldridge. University of Wisconsin, Madison, WI.
Email: haraldsdottir@wisc.edu
(No relationships reported)

Board #106
Activity Levels and Caloric Expenditure in Obese Youth Before, During and After Weight Management Camp.
Christopher Kist, Amanda Gier, Shelley Kirk, Philip Khoury, Robert Siegel. Cincinnati Children’s Hospital, Cincinnati, OH.
Email: christopher.kist@cchmc.org
(No relationships reported)

Board #107
Accuracy of Cardiorespiratory Fitness and Adiposity to Discriminate Elevated Cardiometabolic Risk Among Prepubertal Children
Tuomo Tampuri1, Jarno Jaaskelainen2, Eero Haapala2, Tomi Laitinen1, Timo A. Lakka2. 1Kuopio University Hospital, Kuopio, Finland. 2University of Eastern Finland, Kuopio, Finland. 3University of Saskatchewan, Saskatoon, SK, Canada. 4University of Alberta, Edmonton, AB, Canada. 5University of Texas Arlington, Arlington, TX. 6University of Regina, Regina, SK, Canada. (Sponsor: Paul J Fadel, FACSM)
Email: m.zwinkels@dehoogstraat.nl
(No relationships reported)

Board #108
High-intensity Interval Training in Children With A Chronic Disease Or Condition
Marenka Zwinkels1, Tim Takken2, Anne Visser-Meily2, Olaf Verschuren1. 1De Hoogstraat Rehabilitation, Utrecht, Netherlands. 2University Medical Center Utrecht, Utrecht, Netherlands. (Sponsor: Thomas Janssen, FACSM)
Email: m.zwinkels@dehoogstraat.nl
(No relationships reported)

Board #109
An Assessment of Cardiovascular Health in Southern Maine Children and Comparison to National Normative Values
Katherine Wallingford. University of New England, Biddeford, ME.
Email: kwallingford1@une.edu
(No relationships reported)

Board #110
Exploring the Relationships of Body Composition, Aerobic Fitness and Physical Activity Levels with Arterial Stiffness in Healthy Children with Children with Congenital Heart Disease
Shayne Hayward1, Natasha G. Boyes1, Michael K. Stickland2, Stephanie Fusnik1, Elizabeth Hogewoede1, Josie TJ Fries1, Mark J. Haykowsky1, Shonah Runalls1, Ashok Kakadekar1, Scott Pharis1, Charissa Pockent1, Kristi D. Wright1, Marta Erlandson1, Corey R. Tomczak1. 1University of Saskatchewan, Saskatoon, SK, Canada. 2University of Alberta, Edmonton, AB, Canada. 3University of Texas Arlington, Arlington, TX. 4University of Regina, Regina, SK, Canada. (Sponsor: Paul J Fadel, FACSM)
Email: stephanie.fusnik@usask.ca
(No relationships reported)

Board #111
Muscle Strength and Power Deficits in Children with Type SS Sickle Cell Disease
Kelly A. Dougherty1, Chiara Bertolazzi2, Joan I. Schall1, Kim Smith-Whitley1, Virginia A. Stallings1. 1Stockton University, Galloway, NJ. 2University Hospital Umberto I, Sapienza University, Rome, Italy. 3The Children’s Hospital of Philadelphia, Philadelphia, PA. 4The Children’s Hospital of Philadelphia and University of Pennsylvania, Philadelphia, PA.
Email: Kelly.Dougherty@stockton.edu
(No relationships reported)

Board #112
Is The Acsm Recommendations For Exercise Prescription For Obese Adolescents In Accordance With Ventilatory Threshold?
WAGNER L. PRADO1, Mara C. Lofrano-Prado2, Daniel Calado3, Antonio Henrique G. Soares1, James O. Hill1, João Paulo Botero2, Raphael M. Ritti-Dias2. 1Universidade Federal de São Paulo, Santos, Brazil. 2Universidade de Pernambuco, Recife, Brazil. 3University of Colorado, Denver, CO. 4Hospital Israelita Albert Einstein, São Paulo, Brazil.
Email: wagner.prado@unesp.br
(No relationships reported)

Board #113
Physiological & Anthropometric Profiles Of Elite Collegiate Rugby Union Players
Robert C. Pritchett1, Todd T. Thomley1, Kelly L. Pritchett1, Matt J. Green, FACSM. 1Central Washington University, ELLensburg, WA. 2University of North Alabama, Florence, AL.
Email: pritchett@cwu.edu
(No relationships reported)

Board #114
Positional Norms For Critical Speed And D’ Of High-level Male Rugby Athletes
Robert Pettitt, FACSM1, Ida E. Clark2, Nicholas A. Jamnick3, Cody J. Strom1, Mark Kramer4. 1Minnesota State University, Mankato, Mankato, MN. 2University of Exeter, Exeter, United Kingdom. 3Victoria University, Mebourne, Australia. 4Nelson Mandela University, Port Elizabeth, South Africa.
Email: robert.pettitt@minsu.edu
(No relationships reported)

Board #115
An Interdisciplinary Athlete Development Program Aimed at Improving Skills and Physical Attributes in Elite Athletes
Tracy A. Dierko1, Vincent C. Nettoli2, Jason Pociask3, Erin E. Angle1. 1Indiana University, Indianapolis, IN. 2St. Vincent Hospital, Indianapolis, IN. 3Community Health Network, Indianapolis, IN.
Email: tdierks@iuupui.edu
(No relationships reported)
Board #116  11:00 AM - 12:30 PM
A Comparative Study of Shoulder ROM, Proprioception and Balance Ability between General People and Pro Golfers
Deuk-Su Park, Moo-Yeop Ji, Shun-Zhe Piao, Da-Woon Park, Yong-Woo Kim, Tae-Yeon Kim, Hyeong-Jun Park, Jae-Keun Oh. Korea National Sport University, Seoul, Korea, Republic of.
(No relationships reported)

Board #117  11:00 AM - 12:30 PM
Comparison of Agility and Approach Jump in Elite Sand and Indoor Collegiate Volleyball Athletes
Morgan H. Kocher, Heather C. Boyan, Matthew E. Niesen, Ronald K. Hetzler. FACSM. University of Hawaii at Manoa, Honolulu, HI. (Sponsor: Ronald Hetzler, FACSM)
Email: morganhk@hawaii.edu
(No relationships reported)

Board #118  11:00 AM - 12:30 PM
Salivary Cortisol Responses After A Women’S Basketball Match In Elite Athletes
Athanasios Moustogiannis1, Anastassios Philippou1, Nikolaos Kostopoulos1. 2:Medical School, National and Kapodistrian University of Athens, Gonds-Athens, Greece. 3:Faculty of Physical Education and Sport Science, National and Kapodistrian University of Athens, Dafni-Athens, Greece.
Email: moustogi@gmail.com
(No relationships reported)

Board #119  11:00 AM - 12:30 PM
Profling Inflammatory Markers During The Competitive Season And Post Season In Collegiate Wrestlers
Mary Moore, Joe Roth, Taylor SzczygIEL, Ryan Pettin-Micah Zahl. Central Michigan University, Mount Pleasant, MI.
Email: moore8m@cmich.edu
(No relationships reported)

Board #120  11:00 AM - 12:30 PM
The Retention Potential of the 2016 U.S. Olympic Track and Field Team
Tyler J. Noble, Robert F. Chapman, FACSM. Indiana University-Bloomington, Bloomington, IN.
Email: tyenoble@indiana.edu
(No relationships reported)

Board #121  11:00 AM - 12:30 PM
Metabolic Approach in Canoeing Olympic Medalist Athletes in Rio 2016 Summer Olympic Games
PEDRO RODSTEN, RAFAEL FERREIRA, RODRIGO MANDA, OKESELEY TIEIXE, SALETE COELHO, FRANZ BURINI, ROBERTO BURINI, FACSM. UNESP MEDICAL SCHOOL, BOTUCATU, Brazil. (Sponsor: ROBERTO CARLOS BURINI, FACSM)
Email: pmrodstein@alunos.fmb.unesp.br
(No relationships reported)

Board #122  11:00 AM - 12:30 PM
Differences Among Kinetics, Kinematics, Performance, and Elbow Varus Torque in Professional Versus High School Pitchers
Michael A. Luera1, Mitchell A. Magrini1, Tyler W.D. Muddle1, Ryan J. Colquhoun1, Jason M. DeFreitas2, Brittany Dowling2, Nathaniel D.M. Jenkins1. 1:Oklahoma State University, Stillwater, OK. 2:Motus Global, Massapequa, NY.
(No relationships reported)
Board #130  9:30 AM - 11:00 AM  
Measuring Stride Intervals Using Wearable Devices For Solo And 3-legged Walking  
Sara J. McAllister1, Anna N. Ahn1, Cassandra Davis2, Pallavi Deshpande1, Leanna M. Namovic1, Kenneth S. Robertson1, N. P. Reeves1, John G. Milton1. 1Harvey Mudd College, Claremont, CA. 2Claremont McKenna College, Claremont, CA. 3Scrpps College, Claremont, CA. 4Pitzer College, Claremont, CA. 5College of Osteopathic Medicine, Michigan State University, East Lansing, MI. 6Claremont Colleges, Claremont, CA.  
(No relationships reported)

Board #131  9:30 AM - 11:00 AM  
Effects of Carrying a Loaded Energy Harvesting Backpack on Trunk Lean  
Maria Talarico1, Courtney Haynes1, Julienne Douglas1, Jose Collazo1. 1U.S. Army Research Laboratory, Aberdeen Proving Ground, MD. 2Communications-Electronics, Research, Development, and Engineering Center, Aberdeen Proving Ground, MD.  
(No relationships reported)

Board #132  9:30 AM - 11:00 AM  
Test-retest Reliability Of Spatial-temporal Characteristics In Novice Walkers  
Sydni Wilhoite, Sally-Marie Futch, Nicholas Murray, Li Li, FACSM.  
Georgia Southern University, Statesboro, GA.  
(No relationships reported)

Board #133  9:30 AM - 11:00 AM  
Altered Locomotive Hip Joint Patterns in Patients with Chronic Ankle Instability  
James Mitchell1, Hyunsoo Kim2, S. Jun Son1, Jordan Read1, Matthew K. Seeley1, J. Ty Hopkins, FACSM. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM)  
Email: janetichener@gmail.com  
(No relationships reported)

Board #134  9:30 AM - 11:00 AM  
Effect Of Activity-related Pain On Gait Characteristics During 4-meter Usual-pace Walking Across The Lifespan  
Duane B. Corbett1, Amal A. Wanigatunga1, Vincenzo Valiani1, Matin Kheirkhahan1, Kelly M. Naugle1, Eileen M. Handberg1, Christopher M. Janelle1, Todd M. Manini, FACSM1. 1Indianapolis, Indianapolis, IN.  
(No relationships reported)

Board #135  9:30 AM - 11:00 AM  
Altered Gait Characteristics In Individuals With Medial Knee Osteoarthritis  
Keyi Yin, Cui Zhang, Donghai Wang, Yu Liu.  
Shanghai University of Sport, Shanghai, China.  
Email: yky0504@hotmail.com  
(No relationships reported)

Board #136  9:30 AM - 11:00 AM  
Obesity Is Associated with Altered Plantar Pressure Distribution in Elderly Women  
University of Brasilia, Brasilia, Brazil.  
Email: silvia_gr@hotmail.com  
(No relationships reported)

Board #137  9:30 AM - 11:00 AM  
The Kinematic Effects Of KT Flex And Knee Sleeves On The Hip And Knee  
Brian Burton, Jordan Peterson, Jordan Eatonough, J. Brent Feland.  
Brigham Young University, Provo, UT. (Sponsor: J. Ty Hopkins, FACSM)  
Email: btbjr89@gmail.com  
Reported Relationships: B. Burton: Contracted Research - Including Principle Investigator; Study Funded by KT Tape, PI - J. Brent Feland.

Board #138  9:30 AM - 11:00 AM  
Functional Patterns of Knee Neuromechanics during Stance in Subjects with Chronic Ankle Instability  
Jake Roush1, Hyunsoo Kim1, S. Jun Son1, Trevor Fuhriman1, Matthew K. Seeley1, J. Ty Hopkins, FACSM1. 1Brigham Young University, Provo, UT. 2West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM)  
Email: ajakert94@gmail.com  
(No relationships reported)

Board #139  9:30 AM - 11:00 AM  
Comparison Of Absolute Gait Parameters Between Breast Cancer Survivors And Healthy Controls During Forward And Backward Walking  
Emily H. Harrison, Takudzwa A. Madzima, Caroline D. Deaterly, Srikant Vallabhajosula.  
Elon University, Elon, NC. (Sponsor: Dr. Stephen Bailey, FACSM)  
Email: charrison6@elon.edu  
(No relationships reported)

Board #140  9:30 AM - 11:00 AM  
Concussion Recovery: Gait Characteristics In Collegiate Student-athletes  
Caroline J. Ketcham, Briana N. O’Grady, Jeanine J. Grabowski, Brighton E. Summers, Lauren A. Brown, Srikant Vallabhajosula, Kirtida Patel, Eric E. Hall, FACSM.  
Elon University, Elon, NC. (Sponsor: Eric E. Hall, FACSM)  
Email: ekoteham@elon.edu  
(No relationships reported)

Board #141  9:30 AM - 11:00 AM  
Shorter Distance In 6-minute Walk Test In People With Multiple Sclerosis Demonstrating Leg Strength Asymmetries  
Felix Proessl, Matt J. Carnal, Nathan B. Ketelhut, John H. Kindred, Brian L. Tracy, FACSM, Thorsten Rudroff, FACSM.  
Colorado State University, Fort Collins, CO. (Sponsor: Thorsten Rudroff, FACSM)  
Email: fproessl@colostate.edu  
(No relationships reported)

Board #142  9:30 AM - 11:00 AM  
Changes In Healthy Old Adults’ Gait Biomechanics Following Short-term Lower Extremity Power Training  
Azusa Uematsu1, Tiber Hortobagyi, FACSM1, Kazushi Tsuchiya1, Norio Kadono1, Hirofumi Kobayashi1, Tomoyo Ogawa1, Shuji Suzuki1. 1Dokkyo Medical University, Shimitosuga-gun, Japan. 2University of Groningen, Groningen, Netherlands. 3Waseda University, Tokorozawa, Japan. 4The University of Tokyo, Meguro-ku, Japan. (Sponsor: Tiber Hortobagyi, FACSM)  
Email: auematsu@dokkyomed.ac.jp  
(No relationships reported)

Board #143  9:30 AM - 11:00 AM  
High Intensity Cycling Improves Spatiotemporal and Kinematic Gait Parameters in Parkinson’s disease Patients  
Elise Baron.  
Cleveland Clinic, Cleveland, OH.  
Email: barone@ccf.org  
(No relationships reported)

Board #144  9:30 AM - 11:00 AM  
The Effect of a Backpack Hip Strap on Energy Expenditure While Walking  
Peter A. Hosick1, Jamie Pigman2, William Sullivan1, Steven Leigh1. 1Montclair State University, Montclair, NJ. 2University of Delaware, Newark, DE. (Sponsor: Marshall University, Huntington, WV)  
Email: hosickp@mail.montclair.edu  
(No relationships reported)

Board #145  9:30 AM - 11:00 AM  
Altered Lower Extremity Joint Energetic Patterns in Patients with Chronic Ankle Instability during Walking  
Trevor Fuhriman, Hyunsoo Kim, S. Jun Son, Jake Roush, Matthew K. Seeley, J. Ty Hopkins, FACSM.  
Brigham Young University, Provo, UT. (Sponsor: J. Ty Hopkins, FACSM)  
Email: trevorfuhriman@gmail.com  
(No relationships reported)
<table>
<thead>
<tr>
<th>Board #146</th>
<th>9:30 AM - 11:00 AM</th>
<th>Effects of Strength and Proprioceptive Exercises on Walking Energetic Patterns in Chronic Ankle Instability Patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunku Kwon1, S. Jun Son1, Hyunsoo Kim1, Alyssa Evans1, Dustin Bruening1, Matthew Seeley1, J. Ty Hopkins, FACSM1, Brigham Young University, Provo, UT.2</td>
<td>West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM) Email: <a href="mailto:sunkukwon@gmail.com">sunkukwon@gmail.com</a></td>
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<td>(No relationships reported)</td>
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<tr>
<td>Board #147</td>
<td>9:30 AM - 11:00 AM</td>
<td>Performing The Six-minute Walk Test Is Linked To Increased Risk Of Falling For Persons With MS</td>
</tr>
<tr>
<td>Collin D. Bowersock1, Corey Rynders2, Jake Kosnoff3, Steven Morrison1, Old Dominion University, Norfolk, VA.2</td>
<td>University of Colorado, Boulder, CO.3</td>
<td>University of Illinois, Champaign, IL. Email: <a href="mailto:cdbowersock@gmail.com">cdbowersock@gmail.com</a></td>
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<td>(No relationships reported)</td>
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<tr>
<td>Board #148</td>
<td>9:30 AM - 11:00 AM</td>
<td>Individuals with Chronic Ankle Instability Exhibit Altered Ground Reaction Force Patterns during Walking</td>
</tr>
<tr>
<td>Jordan R. Read1, Hyunsoo Kim1, S. Jun Son1, James Mitchell1, Matthew K. Seeley1, J. Ty Hopkins, FACSM1, Brigham Young University, Provo, UT.2</td>
<td>West Chester University, West Chester, PA. (Sponsor: J. Ty Hopkins, FACSM) Email: <a href="mailto:jordanread31@gmail.com">jordanread31@gmail.com</a></td>
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<td>(No relationships reported)</td>
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**E-32 Free Communication/Poster - Methodology**

**Friday, June 2, 2017, 7:30 AM - 12:30 PM**

**Room:** Hall F

<table>
<thead>
<tr>
<th>Board #149</th>
<th>11:00 AM - 12:30 PM</th>
<th>Does the Polar FT60 Fitness Test™ Accurately Predict Maximal Oxygen Consumption in Healthy Subjects?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kent D. Johnson, FACSM, Jenny Beadle. Lipscomb University, Nashville, TN. Email: <a href="mailto:kent.johnson@lipscomb.edu">kent.johnson@lipscomb.edu</a></td>
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<td>(No relationships reported)</td>
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<tr>
<td>Board #150</td>
<td>11:00 AM - 12:30 PM</td>
<td>Accuracy And Practicality Of A NIRS Device On Blood Lactate Levels</td>
</tr>
<tr>
<td>John Abbott, Melissa A. Whidden. West Chester University, West Chester, PA.</td>
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<td>(No relationships reported)</td>
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<tr>
<td>Board #151</td>
<td>11:00 AM - 12:30 PM</td>
<td>Reliability Of An On-court Basketball-specific Protocol</td>
</tr>
<tr>
<td>Kelly A. Barnes, Melissa L. Anderson, Lindsay B. Baker. PepsiCo, Inc., Barrington, IL. Email: <a href="mailto:kelly.barnes1@pepsico.com">kelly.barnes1@pepsico.com</a></td>
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<tr>
<td>Reported Relationships: K.A. Barnes: Salary; PepsiCo, Inc. Ownership Interest (Stocks, Bonds); PepsiCo, Inc.</td>
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<td>(No relationships reported)</td>
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<tr>
<td>Board #152</td>
<td>11:00 AM - 12:30 PM</td>
<td>Time of Day and Leg Dominance Influence Estimated and Actual Maximal Single Leg Hop Performance</td>
</tr>
<tr>
<td>David MacDonald1, Stephanie Desjardins2, Kylie Tucker1. Griffith University, Gold Coast, Australia.3</td>
<td>The University of Queensland, Brisbane, Australia. Email: <a href="mailto:david.macdonald@griffith.edu.au">david.macdonald@griffith.edu.au</a></td>
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<td>(No relationships reported)</td>
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<tr>
<td>Board #153</td>
<td>11:00 AM - 12:30 PM</td>
<td>Resting and Post-exercise Heart Rate Detection from Fingertip and Facial Photoplethysmography Using a Smartphone Camera</td>
</tr>
<tr>
<td>Bryan P. Yan1, Christy K. Chan1, Olivia T. To1, Christien K. Li1, William H. Lai1. The Chinese University of Hong Kong, Hong Kong, China.2</td>
<td>Newcastle University, Newcastle, United Kingdom. Email: <a href="mailto:bryan.yan@cuhk.edu.hk">bryan.yan@cuhk.edu.hk</a></td>
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<tr>
<td>(No relationships reported)</td>
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</tbody>
</table>
ACSM 64th Annual Meeting

FRIDAY, JUNE 2, 2017

Board #162
11:00 AM - 12:30 PM
Talk Test As A Marker For Maximal Lactate Steady State In Athletes
Carl Foster, FACSM, Danielle Kolman, Sarah Ault, John P. Porcari, FACSM, Richard P Mikat, FACSM. University of Wisconsin-La Crosse, La Crosse, WI.
Email: c fosterr@uwlaux.edu
(No relationships reported)

Board #163
11:00 AM - 12:30 PM
Comparison of the Talk Test and Percent Heart Rate Reserve for Exercise Prescription
John P. Porcari, FACSM, Carl Foster, FACSM, Katelyn Falck, Samantha Suckow, Jillian Turek, Anna Warnowsky, Maria L. Cress, Scott T. Dobeerstein. University of Wisconsin - La Crosse, La Crosse, WI.
Email: jporcari@uwlaux.edu
(No relationships reported)

Board #164
11:00 AM - 12:30 PM
Repeatability Of 5-km Time Trials On A Non-motorized Treadmill
(No relationships reported)

Board #165
11:00 AM - 12:30 PM
The Validity Of A Ruler-Based Alternative To The Sit And Reach Test In Females
Mark G. Cullum, Justin R. Bland, Ken R. Turley, FACSM. Harding University, Searcy, AR. (Sponsor: Ken R. Turley, FACSM)
(No relationships reported)

Board #166
11:00 AM - 12:30 PM
The Effect of Cadence on Muscular Activity and Performance During the Push-Up Exercise
Chris Pitsikoulis, David Cesario, Hae Ryong Chung. 1.Aurora University, Aurora, IL. 2.Clayton State University, Morrow, GA.
Email: epitsikoulis@auroru.edu
(No relationships reported)

Board #167
11:00 AM - 12:30 PM
Estimation of the Lactate Threshold Using a New Wireless Near-Infrared Spectroscopy System
Shara Perry, Lindsay Davis, Paul Bender, John Thistlethwaite, Craig Broeder, FACSM, Jakob D. Lauver, Trent E. Cayot, Álvaro Dominican University, Columbus, OH. 2.Exercising Nutritionally, LLC, Lisle, IL. 3.Adrian College, Adrian, MI. (Sponsor: Craig Broeder, FACSM)
(No relationships reported)

Board #168
11:00 AM - 12:30 PM
Effectiveness of a Student-Led Worksite Wellness Project Addressing Health-Related Physical Fitness
Jeffrey M. Hartman. Gardner-Webb University, Boiling Springs, NC.
Email: jhartman@gardner-webb.edu
(No relationships reported)

Board #169
11:00 AM - 12:30 PM
Validation Of A 10-point OMNI Rating Of Perceived Exertion Colored Scale
Email: niexiang.tou@nie.edu.sg
(No relationships reported)

Board #170
11:00 AM - 12:30 PM
Validation Of Heart Rate Sensor And Phone App In Lab Versus Home-based Environment
Galen Morton, Carin Greice, Ann Gibson, FACSM. 1.University of New Mexico, Albuquerque, NM. 2.Colorado Mesa University, Grand Junction, CO. (Sponsor: Dr. Ann L. Gibson, FACSM)
Email: gmorton@cmu.edu
(No relationships reported)

Board #171
11:00 AM - 12:30 PM
Ventilatory Thresholds Differ Between Bruce And Self-paced Vo2Max Tests
Cory M. Scheadler, Gabriel Sanders, Heath Mello, Anthony Coul, Nicholas Hanson, Northern Kentucky University, Highland Heights, KY. 2.Western Michigan University, Kalamazoo, MI.
Email: scheadlerc1@aku.edu
(No relationships reported)

Board #172
11:00 AM - 12:30 PM
Relationship Between Physiological Lab Tests and On-Ice Measures Among NCAA DIII Collegiate Hockey Players
Devon J. Erps, Adam Coughlin, Andrea Workman, Joe Williams, Stephen McGregor. 1.Eastern Michigan University, Ypsilanti, MI. 2.Saginaw Valley State University, University Center, MI. (Sponsor: Mark Peterson, FACSM)
Email: drps@emich.edu
(No relationships reported)

Board #173
11:00 AM - 12:30 PM
Comparison Of Pre- And Post-season Laboratory And On-Ice Measures Among NCAA Division III Hockey Players
Dakota Burke, Stephen McGregor, Andrea Workman, Joe Williams, Adam Coughlin, Martin Urbaniaik. 1.Eastern Michigan University, Ypsilanti, MI. 2.Saginaw Valley State University, Grand Rapids, MI. (Sponsor: Mark Peterson, FACSM)
(No relationships reported)

Board #174
11:00 AM - 12:30 PM
Determination of Trials Needed for Measurement Consistency of Standing Long Jump in Collegiate Volleyball Players
Robert Ah Sue, Chad Harris, FACSM, Kent J. Adams, FACSM, Joseph Benning, FACSM, Mark DeBeliso, FACSM. 1.Southern Utah University, Cedar City, UT. 2.Metropolitan State University of Denver, Denver, CO. 3.California State University Monterey Bay, Seaside, CA. 4.New Mexico State University, Las Cruces, NM.
(No relationships reported)

Board #175
11:00 AM - 12:30 PM
Comparison Of Cardiorespiratory Responses During Body Weight-supported Treadmill And Standard Treadmill Exercise
Kyle D. Biggerstaff, Kaitlyn Abruzzese, Desiree Patterson, Christopher Irvine, Matthew F. Brisebois. Texas Woman's University, Denton, TX.
(No relationships reported)

Board #176
11:00 AM - 12:30 PM
Agreement Between Electromyographic Fatigue And Ventilatory Thresholds During Taekwondo Specific Test
Marcus Paulo Araujo, Pedro Paulo Soares, Matheus Hausen, Débora Esteves, Hilbert Julio, Roberto Taul, Jonas Gurgel. Fluminense Federal University, Niterói, Brazil.
(No relationships reported)

Board #177
11:00 AM - 12:30 PM
Reliability and Smallest Worthwhile Difference in Reactive Strength Index Modified in Male and Female Athletes
Email: marrn@health.missouri.edu
(No relationships reported)
American College of Sports Medicine

Board #178  11:00 AM - 12:30 PM

Validity of Linear Position Transducers Versus the Optotrak 3D Motion Capture System

Jessica L. Halle, Jacob A. Goldsmith, Cameron Tropeck, Ryan K. Byrnes, Daniel M. Cooke, Michael H. Haischer, Kristin M. Mendez, Robert F. Zoeller, Michael Whitehurst, FACSM, Michael C. Zourdos. Florida Atlantic University, Boca Raton, FL. Email: jhalle2014@fau.edu

(No relationships reported)

Board #179  11:00 AM - 12:30 PM

Comparison of Two Commonly Used Metabolic Measurement Systems.

Anna K. Little1, Hyun-Sung An1, Wonwoo Byun2, JUNG-MIN LEE1. 1University of Nebraska at Omaha, Omaha, NE. 2North Dakota State University, Fargo, ND. Email: alittle1211@gmail.com

(No relationships reported)

Board #180  11:00 AM - 12:30 PM

Power Push-up Tests Performed from the Knees and Toes in Young Male Athletes

Zachary M. Gillen1, Joel T. Cramer, FACSM1, Amelia A. Miramonti1, Nathaniel DM Jenkins2, Brianna D. McKay1, Todd J. Leutzinger1. 1University of Nebraska-Lincoln, Lincoln, NE. 2Oklahoma State University, Stillwater, OK. (Sponsor: Joel T Cramer, FACSM)

Email: zgillen2@unl.edu

(No relationships reported)

E-33  Free Communication/Poster - Monitoring

Friday, June 2, 2017, 7:30 AM - 12:30 PM
Room: Hall F

Board #181  9:30 AM - 11:00 AM

Tracking Of Blood Lactate Response Across Eight Sessions Of Muscular Endurance Resistance Training

John W. Farrell III, David J. Lantis, Gregory S. Cantrell, Debra A. Benben, FACSM, Rebecca D. Larson. University of Oklahoma, Norman, OK. (Sponsor: Dr. Debra A. Benben, FACSM)

Email: John.W.Farrell-1@ou.edu

(No relationships reported)

Board #182  9:30 AM - 11:00 AM

Varying Exercise Intensities: The Accuracy of Three Self-Monitoring Heart Rate and Physical Activity Wearable Devices

Erin E. Dooley, Natalie M. Golaszewski, John B. Bartholomew, FACSM, University of Texas at Austin, Austin, TX. (Sponsor: John B. Bartholomew, FACSM)

Email: erin.dooley@utexas.edu

(No relationships reported)

Board #183  9:30 AM - 11:00 AM

Sex and Age Differences in Wrist and Hip Accelerometry in Adults

Shannon Merkle1, Dana Dailey2, Kathleen Sluka2, Laura Frey Law2. 1United States Army Research Institute of Environmental Medicine, Natick, MA. 2University of Iowa, Iowa City, IA.

Email: shannon.l.merkle.mil@mail.mil

(No relationships reported)

Board #184  9:30 AM - 11:00 AM

The Degree Of Tracking Of Physical Fitness And The Possibility Of Anti-tracking

Kosho Kasagi1, Takahiro Nakano1, Kazuo Oguri2, Tomoaki Sakai1. 1Gifu University, gifu, Japan. 2Nagoya Gakuen University, seto, Japan. 3Gifu Phototoku Gakuen University, gifu, Japan. (Sponsor: Kiyoji Tanaka, FACSM)

(No relationships reported)

Board #185  9:30 AM - 11:00 AM

GPS Analysis of Elite Chinese Male Hockey Players During Competition: Based on New IHF Rules

Xudan Cai1, Wayne Lombard1, Niansheng Zhou1, Xiaoping Chen2. 1Ningbo University, Ningbo, China. 2University of Cape Town, Cape Town, South Africa. (Sponsor: Robert F. Zoeller, FACSM)

Email: caixudan1993@yahoo.com

(No relationships reported)

Board #186  9:30 AM - 11:00 AM

An Examination of Body Mass Index Influence on Activity Tracker Accuracy

Chris Dondzila, Holly Johnson, MeKayla Stackel. Grand Valley State University, Allendale, MI. (Sponsor: Steve Glass, FACSM)

(No relationships reported)

Board #187  9:30 AM - 11:00 AM

Accuracy of Garmin and Polar Smart Watches to Predict VO2max

Nikolas C. Snyder, Courtney A. Willoughby, Bryan K. Smith. Southern Illinois University Edwardsville, Edwardsville, IL. (No relationships reported)

Board #188  9:30 AM - 11:00 AM

Comparison Of Vo2Max Values Obtained From The Garmin Forerunner 230 And 235

Courtney A. Willoughby, Nikolas C. Snyder, Bryan K. Smith. Southern Illinois University Edwardsville, Edwardsville, IL. (No relationships reported)

Board #189  9:30 AM - 11:00 AM

The Validity And Agreement Of Running Distance Measurements By A Consumer Accelerometer And Gps

Andrew J. Carnes1, Jacob A. Barkley2, Jennifer L. Petersen3. 1Bellarmine University, Louisville, KY. 2Kent State University, Kent, OH. 3Walsh University, North Canton, OH. (Sponsor: Ellen Glickman, FACSM)

(No relationships reported)

Board #190  9:30 AM - 11:00 AM

Accuracy of Wearable Devices for Determining Physiological Measures during Different Physical Activities

Benjamin D. Boudreaux, Corinne L. Cornier, Brian M. Williams, Edward P. Hebert, Robert R. Kraemer, FACSM. Southeastern Louisiana University, Hammond, LA. (Sponsor: Robert R. Kraemer, FACSM)

Email: benjamin.boudreaux@selu.edu

(No relationships reported)

Board #191  9:30 AM - 11:00 AM

Validity Of The Diagnostix™ 2100 And Fitbit Charge HR™ In Assessing Heart Rate

Paige Harderkopf, Charles Fountaine. University of Minnesota Duluth, Duluth, MN. (Sponsor: John R. Keener, FACSM)

Email: hard0365@d.umn.edu

(No relationships reported)

Board #192  9:30 AM - 11:00 AM

Validity of the Fitbit® Distance Traveled Feature Among Multiple Speed Trials

Christina J. Marton. Gustavus Adolphus College, Saint Peter, MN. Email: cmarton@gac.edu

(No relationships reported)

Board #193  9:30 AM - 11:00 AM

Measuring Acceleration of a Trampoline Circus Act during Training and In-Show Using Wearable Technology

Leland Barker, 89120, John Mercer, FACSM. UNLV, Las Vegas, NV.

Email: barkel1@unlv.nevada.edu

(No relationships reported)

www.acsm.org

FRIDAY, JUNE 2, 2017
Board #197  
9:30 AM - 11:00 AM
Assessing Physiological Function During a High-Altitude Hike Using Real-time Monitoring
Nicholas Fox¹, John E. Davis¹, Allison Brown¹, Nicole Deel¹, Alexander Montoya¹, Monroe Molesky¹, Eric Adzic², Michael Miller³, Jeremy Reitinger⁴, Elaine Rens², Luke Yang⁵, Aram Wislowsk², Andrew Subudhi⁶, FACSM, David Roach⁴, FACSM.¹
1Alma College, Alma, MI. ²CU School of Medicine, Aurora, CO. ³Altitude Research Center CU School of Medicine, Aurora, CO. (Sponsor: Andy Subudhi, FACSM)
Email: foxn1@alma.edu
(No relationships reported)

Board #198  
9:30 AM - 11:00 AM
Accuracy of Smart Phone Application to Monitor Heart Rate
A. Page Glave, Jennifer J. Didier, Mary L. Williams, Christina Waters, Emily Ferens, Megan Cole. Sam Houston State University, Huntsville, TX.
Email: apglave@shsu.edu
(No relationships reported)

Board #199  
9:30 AM - 11:00 AM
The Validity Of A Novel, Low-cost, Wearable Physical Activity Monitor In A Laboratory Setting
Andrew Newton¹, Ellen Glickman, FACSM, Curtis Fennell², John Gunstad³, Jacob Barkley³. ¹Kent State University, Kent, OH. ²University of Montevallo, Montevallo, AL.
(No relationships reported)

Board #200  
11:00 AM - 12:30 PM
Differentiating Swelling and Hypertrophy Following Repeated Bouts of Resistance Exercise
Samuel L. Buckner¹, Scott J. Dankel², Kevin T. Mattocks², Matthew B. Jessee², J. Grant Mossė², Brittany R. Countis², Gilberto C. Laurentino³, Jeremy P. Loenneke³. ¹The University of Mississippi, University, MS. ²University of South Carolina, Columbia, SC. ³University of Sao Paulo, Sao Paulo, Brazil.
(No relationships reported)

Board #201  
11:00 AM - 12:30 PM
AMPK Subunit Isoform Expression Differers Between Human Skeletal Muscle Fiber Types
Irene S. Tobias¹, James R. Bagley², Lee E. Brown, FACSM, Andrew J. Galpin¹. ¹California State University, Fullerton, Fullerton, CA. ²San Francisco State University, San Francisco, CA.
(No relationships reported)

Board #202  
11:00 AM - 12:30 PM
Effects Of Resistance Training During 8-week Bed-rest On Intramuscular-fat And Muscle-tissues Of The Thigh Muscle Groups
Madoka Ogawa¹, Akito Yoshikado¹, Gabriele Armbrrecht¹, Tanja Miskovic², Dieter Felsenberg², Daniel Belay³, Hiroshi Akima³. ¹Nagoya University, Nagoya, Japan. ²Freie und Humboldt Universitäten, Berlin, Germany. ³Deakin University, Burwood, Victoria, Australia. (Sponsor: Katsumi Asano, FACSM)
Email: d0c0dem0nado20@gmail.com
(No relationships reported)

Board #203  
11:00 AM - 12:30 PM
Influence Of Dpp-iv And Catd26+ T-cells On Ii-6 Following Dorms Protocol In College-aged Participants
Leslie E. Neidert, Elise K. Mann, Zachary B. Rightmire, Anna M. L Mantia, Heidi A. Kluess, FACSM, Auburn University, Auburn, AL. (Sponsor: Heidi A. Kluess, FACSM)
(No relationships reported)

Board #204  
11:00 AM - 12:30 PM
Exercise-Induced Muscle Damage Reduces Critical Torque and Impulse Above End Test Torque
Darshit S. Patel. The University of Oklahoma, NORMAN, OK. (Sponsor: Kevin K McCully, FACSM)
Email: dpatel7@ou.edu
(No relationships reported)

Board #205  
11:00 AM - 12:30 PM
Myogenic And Atrophic Signaling In The Progression Of Cancer-cachexia
Thomas A. Blackwell¹, Jacob L. Brown¹, David E. Lee², Megan E. Rosa-Caldwell², Richard A. Perry Jr², Lemuel A. Brown², Wesley S. Haynie³, Michael P. Wiggs⁴, Tyrone A. Washington³, Nicholas P. Greene³. ¹University of Arkansas, Fayetteville, AR. ²University of Texas-Tyler, Tyler, TX. (Sponsor: Stephen F. Crouse, FACSM)
Email: thomasanblackwell@gmail.com
(No relationships reported)

Board #206  
11:00 AM - 12:30 PM
Effects Of Sleep Deprivation And Sleep Recovery On Muscular Igf-1 And Muscle Regeneration
Marcos Mônico-Neto¹, Murilo Dâttilo¹, KIi Sun Lee¹, Marco Túlio de Melo¹, Hanna Karen Moreira Antunes¹. ¹Federal University of Sao Paulo, Sao Paulo, Brazil. ²University of Minas Gerais, Belo Horizonte, Brazil.
Email: marcosmonica@gmail.com
(No relationships reported)

Board #207  
11:00 AM - 12:30 PM
Effects Of Muscle Specific Pgc-1a Overexpression At The Onset Of Muscle Regeneration
(No relationships reported)

Board #208  
11:00 AM - 12:30 PM
Reliability And Comparison Of Measurements Of The Tibialis Posterior Cross-Sectional Area Via Ultrasound Imaging
Victoria A. Violette, Sarah T. Ridge, Dustin Bruneing, J. W. Myrer, A. W. Johnson. Brigham Young University, Provo, UT. (Sponsor: Pat Vehrs, FACSM)
(No relationships reported)
Board #221 11:00 AM - 12:30 PM
Muscle Regeneration after Anterior Cruciate Ligament Reconstruction - Effects of Strength Training Regime and Different Autocrafts
Francisca Proffit1, Thomas Grewechenberger1, Nadine Weiberg1, Marc-André Weber2, Nikolaus Streich1, Alexandre Barrié1, Birgit Friedmann-Betto1. 1University Hospital, Heidelberg, Germany. 2University Hospital/Olympic Training Center, Heidelberg, Germany. 3Clinic St. Elisabeth, Heidelberg, Germany. Email: francsca.proffit@med.uni-heidelberg.de (No relationships reported)

Board #222 11:00 AM - 12:30 PM
Thigh Muscle Cross-sectional Area by pQCT: Precision of Two Software Programs
Samuel R. Buchanan1, Christopher Poole2, Daniel Schifferle1, Debra Bemben, FACSM1, Michael Bemben, FACSM2. 1The University of Oklahoma, Norman, OK. 2Southern Methodist University, Dallas, TX. Email: tsujita@cvn.bai.ne.jp (No relationships reported)
### E-35 Free Communication/Poster - Musculoskeletal Mechanics and Modeling

**Friday, June 2, 2017, 7:30 AM - 12:30 PM**

**Room: Hall F**

<table>
<thead>
<tr>
<th>Time</th>
<th>Board #</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30 AM - 11:00 AM</td>
<td>#225</td>
<td>Regional Differences in Bone Mineral Density in Male Collegiate Runners With Different Foot-strike Patterns</td>
<td>Kevin S. Ryan, Alec C. Miller, Tony D. Uhrich, Kristof Kipp. Marquette University, Milwaukee, WI. (Sponsor: Paula E. Papanek, FACSM) Email: <a href="mailto:kevin.ryan@marquette.edu">kevin.ryan@marquette.edu</a> (No relationships reported)</td>
</tr>
<tr>
<td>9:30 AM - 11:00 AM</td>
<td>#226</td>
<td>Individuals with Sacroiliac Joint Dysfunction Display Fewer Muscle Synergies When Walking</td>
<td>Daniel F. Feeney1, Robyn A. Capobianco1, Jana R. Jeffers1, Joseph Morreale1, Alena M. Grabowski1, Roger M. Enoka1. 1University of Colorado Boulder, Boulder, CO. 2Center for Spinal Disorders, Thornton, CO. (No relationships reported)</td>
</tr>
<tr>
<td>9:30 AM - 11:00 AM</td>
<td>#227</td>
<td>Vest-borne Loads Increase Bending Moments at the Distal Tibia</td>
<td>Nathaniel I. Smith1, Timothy R. Derrick2, Joseph F. Seay3, Peter N. Frykman4, Rebecca E. Fellin1. 1U.S. Army Research Institute of Environmental Medicine, Natick, MA. 2Iowa State University, Ames, IA. 3Army Research Laboratory, Washington, DC. 4US Army Research Laboratory, Natick, MA. Email: <a href="mailto:nathaniel.smith2.cr@mail.mil">nathaniel.smith2.cr@mail.mil</a> (No relationships reported)</td>
</tr>
<tr>
<td>9:30 AM - 11:00 AM</td>
<td>#228</td>
<td>Peak Patellofemoral and ACL/PCL Forces While Performing the Forward Lunge Exercise With Varying Techniques</td>
<td>Rafael F. Escamilla, FACSM1, Naiaqan Zheng1, Toran D. MacLeod1, Rodney Imamura1, Shangcheng Wang1, Glenn S. Fleisig1, Kevin E. Wille1, James R. Andrews1. 1California State University, Sacramento, Sacramento, CA. 2University of North Carolina, Charlotte, Charlotte, NC. 3American Sports Medicine Institute, Birmingham, AL. 4Champion Sports Medicine, Birmingham, AL. 5Andrews Institute, Gulf Breeze, FL. Email: <a href="mailto:rescamilla@csus.edu">rescamilla@csus.edu</a> (No relationships reported)</td>
</tr>
<tr>
<td>9:30 AM - 11:00 AM</td>
<td>#229</td>
<td>Slope of Time-to-maximum Intensity of the Mechanomyograph in the Calf Muscles During Incremental Electrical Stimulation</td>
<td>W. Jeffrey Armstrong. Western Oregon University, Monmouth, OR. (No relationships reported)</td>
</tr>
</tbody>
</table>
Board #254
11:00 AM - 12:30 PM
Characterizing the Relationship between Physical Activity and Osteoporosis in the Greater Philadelphia Hispanic Population
Allison R. Altman-Singles, Eliana Bolano, Pennsylvania State University, Berks Campus, Reading, PA. (Sponsor: Mary Jane De Souza, FACSM)
Email: ams5993@psu.edu
(No relationships reported)

Board #255
11:00 AM - 12:30 PM
Healthy Lifestyle Behaviors Related to Cardiovascular Risk among Young Adults
Melissa A. Napolitano1, Jessica A. Whiteley2, Meghan Mavredes1, Laura L. Hayman2, Samuel Simmens1, Loretta DiPietro, FACSM.
1The George Washington University, Washington, DC. 2University of Massachusetts Boston, Boston, MA. (Sponsor: Loretta DiPietro, FACSM)
Email: mnapolitano@gwu.edu
(No relationships reported)

Board #256
11:00 AM - 12:30 PM
Effects Of Changes in Depressive Symptoms and Cardiorespiratory Fitness on All-cause Mortality: The HUNT Study
Trude Carlsen1, Øyvind Salvesen1, Ulrik Wisloff2, Carl J. Lavie2, Steven N. Blair, FACSM3, Linda Ernstsen1. 1Norwegian University of Science and Technology, Trondheim, Norway. 2John Ochsner Heart and Vascular Institute, Ochsner Clinical School, The University of Queensland School of Medicine, New Orleans, LA. 3Arnold School of Public Health, University of South Carolina, Columbia, SC.
Email: trude.carlsen@ntnu.no
(No relationships reported)

Board #257
11:00 AM - 12:30 PM
New Get-up Test As an Indicator Of Sarcopenia, Sarcopenic Obesity, And Cardiovascular Disease Risk Factors
Duck-chul Lee, FACSM, Nathan F. Meier, FACSM, Arnold School of Public Health, University of South Carolina, Columbia, SC. (Sponsor: Arnold School of Public Health, University of South Carolina, Columbia, SC.)
Email: dllee2@istate.edu
(No relationships reported)

Board #258
11:00 AM - 12:30 PM
Active Transportation And C-reactive Protein In U.S. Adults
Nicholas F. Diaz, Michael R. Richardson, James R. Churilla, FACSM, University of North Florida, Jacksonville, FL. (Sponsor: James R Churilla, FACSM)
(No relationships reported)

Board #259
11:00 AM - 12:30 PM
Impact Of Race And Non-exercise Estimated Cardiorespiratory Fitness On Incident Stroke: The Regards Study
Xuemei Sui1, Virginia Howard2, Michelle McDonnell1, Linda Ernstsen3, Carl Lavie4, Steven Hooker, FACSM5. 1University of South Carolina, Columbia, SC. 2University of Alabama at Birmingham, Birmingham, AL. 3University of South Australia, Adelaide, Australia. 4University of Science and Technology, Trondheim, Norway. 5John Ochsner Heart and Vascular Institute, New Orleans, LA. 6Arizona State University, Phoenix, AZ. (Sponsor: Steven P. Hooker, FACSM)
Email: msui@mailbox.sc.edu
(No relationships reported)

Board #260
11:00 AM - 12:30 PM
Exercise Cardiac Power And Coronary Artery Calcification In Men
Sae Young Jae1, Kanokwan Bunsawat1, Eun Sun Yoon1, Hyun Jongs Kim1, Won Hah Park2, Bo Fernhall, FACSM1. 1University of Seoul, Seoul, Korea. Republic of. 2University of Illinois at Chicago, Chicago, IL. (Sponsor: Seoul, Korea, Republic of.)
Email: syjae@uos.ac.kr
(No relationships reported)
American College of Sports Medicine

Board #267 11:00 AM - 12:30 PM
Novel Predictors of Age-Related Changes in Lung Function: An Analysis of the Fels Longitudinal Study
Shilpa Dogra¹, Andrew W. Froehle², Peterson J. Matthew³.
1University of Ontario Institute of Technology, Oshawa, ON, Canada. 2Wright State University, Dayton, OH.
Email: shilpa.dogra@uoit.ca
(No relationships reported)

Board #268 11:00 AM - 12:30 PM
Adiposity Parameters As A Full Mediation Of The Influence Of Muscular Function And Cardiometabolic Risk Clustering In Adults From Colombia
Lorenzo E. Benavides-Rodriguez¹, Jorge E. Correa-Bautista¹, Andres Vivas¹, Daniel H. Prieto-Benavidez¹, Javier Martinez-Torres³, Katherine Gonzalez-Ruiz¹, Hugo Alejandro Carrillo¹, Hector Reynaldo Triana-Reina³, Jeison Alexander Garcia-Hernando², Robinson Ramirez-Velez¹. 1Centro de Estudios para la Medicina de la Actividad Física «CEMA». Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogotá D.C, Co, Bogota, Colombia.
2Grupo de Investigación en Ejercicio Físico y Deporte. Vicerrectoría de Investigación, Universidad Manuela Beltrán, Bogotá, D.C.
3Facultad de Cultura Física, Deporte y Recreación, Universidad Santo Tomás, Bogota, Colombia. 4Grupo GRINDER, programa de Educación Física y Deportes, Universidad del Valle, Cali, Colombia. 5Facultad de Educación a Distancia y Virtual. Institución Universitaria Antonio José Camacho, Cali, Colombia.
Email: robin640@hotmail.com
(No relationships reported)

Board #269 11:00 AM - 12:30 PM
Physical Activity and not Sedentary Time Influence on Metabolic Risk in Older Community-dwelling Women
Andreas Nilsson, Britta Wåhlin, Larsson, Fawzi Kadi. Örebro University, Örebro, Sweden.
Email: andreas.nilsson@oru.se
(No relationships reported)

Board #270 11:00 AM - 12:30 PM
Physical Activity and Periodontal Bacteria in Saliva among Japanese Adults
Cong Huang¹, Rui Yamashita¹, Yukato Sato², Haruki Momma¹, Junko Kawashima¹, Bin Ye¹, Shota Sugiyama¹, Masakazu Nanno¹, Akito Taubö¹, Masao Nagasaka¹, Ryouchi Nagatomi¹, Tohoku University, Sendai, Japan. 1University of the Ryukyus, Naka, Japan.
Email: hconman@yahoo.com
(No relationships reported)

Board #271 11:00 AM - 12:30 PM
Met-minutes Of Activity And Telomere Length In 5,823 Men And Women: An NHANES Investigation
Larry A. Tucker, Brigham Young University, Provo, UT.
Email: tucker@byu.edu
(No relationships reported)

Board #272 11:00 AM - 12:30 PM
Disparities Between BMI And BFR To Evaluate Obesity Rate In Chinese Urban-white-collar Population: A Cross-section Study
WanMei Cheng, YuHua Jia, DongLiang Zhang, YunXin Luo, Bin Liang, Gang Bei, QiHua Huang, Xue Huang, XiaoLing He, Fei Xiao. Cinkate Corporation, Shanghai, China.
Email: hemolly@cinkate.com.cn
(No relationships reported)

Board #273 11:00 AM - 12:30 PM
Objective And Self-reported Measures Of Physical Activity And Sex Hormones: Women’s Lifestyle Validation Study.
Marquis S. Hawkins¹, Deirdre K. Tobis¹, Hala B. Alesa¹, Andrea K. Chonistek¹, Walter C. Willett², Sue E. Hankinson¹.
1University of Massachusetts Amherst, Amherst, MA. 2Harvard Medical School and Brigham and Women’s Hospital, Boston, MA.
(No relationships reported)

Board #274 11:00 AM - 12:30 PM
Muscle Strengthening Activity, C-reactive Protein, And Diabetes: 1999-2006 Nhanes
Brandi S. Rariden, Adrian J. Boltz, Bethany D. Williams, Michael R. Richardson, Tammi M. Johnson, James R. Churilla, FACSM. University of North Florida, Jacksonville, FL. (Sponsor: James R. Churilla, FACSM)
Email: no0774738@unf.edu
(No relationships reported)

Board #275 11:00 AM - 12:30 PM
Impact Of The American Heart Association (AHA)’S 7 Health Metrics On Life Expectancy In The United States General Population
Chong-Do Lee, FACSM, Erin Dierickx, Tongyu Ma, Kyle Menkosky. Arizona State University, Phoenix, AZ.
(No relationships reported)

Board #276 11:00 AM - 12:30 PM
Functional Ability and Physical Activity in Urban African American and Rural White Older Adults
Haocen Wang, Carly E. Babino, Wan-chin Kuo, Randall J. Gretebeck, FACSM, Kimberly A. Gretebeck. University of Wisconsin-Madison, Madison, WI.
Email: hwang472@wisc.edu
(No relationships reported)

Board #277 11:00 AM - 12:30 PM
Fatness and Low Back Pain: A Cohort Study of Japanese Male Workers in the Tokyo Metropolitan Area
Yuko Hashimoto¹, Susumu S. Sawada, FACSM¹, Ko Matsuda¹, Yuko Gando², Ryoko Kawakami², Chihiro Kimukawa¹, Takashi Okamoto¹, Koji Tsukamoto¹, Motokazu Miyachi¹, Hisashi Naito¹, Steven N. Blair, FACSM², Junjiro University, Chiba, Japan. 2National Institutes of Biomedical Innovation, health and Nutrition, Tokyo, Japan. 3University of Tokyo Hospital, Tokyo, Japan. 4Waseda University, Tokyo, Japan. 5Toyota Gas Health Promotion Center, Yokohama, Japan. 6University of South Carolina, Columbia, SC.
Email: mshawkins@schoolph.umass.edu
(No relationships reported)

Board #278 11:00 AM - 12:30 PM
Physical Fitness Changes In 80 Year-old Japanese Adults With No-Medication Use Over 10 Years
Mieko Shimada¹, Nobuko Hongui¹, Mamoru Nishimuta¹, Yasuo Kimura¹, Naoki Nakagawa², Masaharu Ohashi³, Hideo Miyazaki³, Yukata Yoshitake², Chiba Prefectural University Of Health Sciences, Chiba, Japan. 1The University of Arizona, Tucson, AZ. 2Toyo University, Gunma, Japan. 3Inst. Fitness & Health Sciences, Tokyo, Japan. 4Sanno University, Isehara, Japan. 5Niigata University, Niigata, Japan. 6National Institute of Fitness and Sports in KANOYA, Kanoya, Japan.
Email: mieko.shimada@cpuhs.ac.jp
(No relationships reported)

Board #279 11:00 AM - 12:30 PM
Physical Activity In Bouts And Nonbouts: Relation To Physical Fitness And Health-related Quality Of Life
Daniela Ciprandi¹, Filippo Bertozzi¹, Matteo Zago¹, Chiarella Sforza¹, Christel Galvani². 1Università degli Studi di Milano, Milan, Italy. 2Catholic University of the Sacred Heart, Milan, Italy.
Email: daniela.ciprandi@unimi.it
(No relationships reported)
Board #280
11:00 AM - 12:30 PM
Dose-Response of Light Intensity Physical Activity and Glucose Dynamics in Older Adults
Whitney A. Welch1, Scott J. Strath, FACSM2, Renee E. Walker1, Ann M. Swartz, FACSM1. 1Northwestern University, Chicago, IL. 2University of Wisconsin-Milwaukee, Milwaukee, WI.

Email: whitney.welch@northwestern.edu
(No relationships reported)

Board #281
11:00 AM - 12:30 PM
Lower Cognition and Prefrontal Cortex Oxygenation during High Intensity Exercise in Individuals with Substance Addiction
Kell Grandjean da Costa1, Wesley Quirino Alves da Silva1, Daniel Aranha Rego1, Alexandre Hideki Okano1, Hassan Mohamed Elsangedy1, Eduardo Caldas Costa1, Vanessa De Paula Soares Rachetti1, Erika Hussey2, Natan Ward3, Eduardo Bodnariuc Fontes4, 1Federal University of Rio Grande do Norte, Natal, Brazil. 2Tufts University, Boston, MA.

Email: kellgrandjean@gmail.com
(No relationships reported)

Board #282
11:00 AM - 12:30 PM
Acute And Chronic Immune Responses To Consecutive Or Non-consecutive Days Of Resistance Training
Pang Boon Bay1, Yontai Raymond Wang1, Hillary Wei Jian Teo1, Junli Huang1, Gorming Goh2, Yifan Yang1, 1Nanyang Technological University, Singapore, Singapore. 2National University of Singapore, Singapore. 3Singapore. 4Singapore.

Email: blgob@nus.edu.sg
(No relationships reported)

Board #283
11:00 AM - 12:30 PM
3 Week Behavioral Intervention Does Not Lower Urinary Bisphenol A Concentrations In Women With Obesity
Todd Hagopian, FACSM, Zoe Belli-Dovi, Adrian Mercado, Megan Guy, Suzanne Phelan. California Polytechnic State University, San Luis Obispo, CA.

Email: tlangobias@calpoly.edu
(No relationships reported)

Board #284
11:00 AM - 12:30 PM
Relationship Between Oxygen Consumption, Percentage Of Muscle Mass And Risk Of Cardiovascular Disease In Adult Men
Aurora C. Zea-Robles1, Astrid Y. Rodriguez-Arboleda1, Diana P. Saenz1, Henry H. Leon-Ariztia2, Marilucio De Souza-Martins3, Sandra Posada-Bernal4, 1Santo Tomás University, Bogotá, Colombia. 2La Sabana University, Chia, Colombia. 3Pontificia Javeriana University, Bogotá, Colombia. 4University of Texas at Austin, Austin, Texas.

Email: aurusaez@usantotomas.edu.co
(No relationships reported)

Board #285
11:00 AM - 12:30 PM
Effect of Bikram Yoga on Heart Rate Variability and Associated Outcomes in Stressed and Sedentary Adults
Zoe L. Hewett1, Kate L. Pumpa2, Caroline A. Smith1, Paul P. Fabey1, Birinder S. Cheema1. 1Western Sydney University, Sydney, Australia. 2University of Canberra, Canberra, Australia.

Email: zoehewett@hotmail.com
Reported Relationships: Z.L. Hewett: Ownership Interest (Stocks, Bonds); Bikram Yoga Kingston.

Board #286
11:00 AM - 12:30 PM
Association of Cardiorespiratory Fitness, Visceral Fat and Weight Cycling History in Pre-menopausal Women.
Karen Moreno, Pamela D. Swan, FACSM, Matthew Buman, FACSM, Zachary Zeigler, Arizona State University, Phoenix, AZ. 1Pamela Swan PhD, FACSM

Email: kimoren@asu.edu
(No relationships reported)

Board #287
11:00 AM - 12:30 PM
Improvement Of Cognitive Function By dual-task Exercise
Ryu Itô1, Soichi Ando1, Ruyi Takigawa1, Sakamoto Kazunori1, Ataru Kobayashi1, Shinobu Tsurugano1, Kiyoji Tanaka, FACSM2, Kazunori Ohkawara1. 1The University of Electro-Communications, Tokyo, Japan. 2National Institute of Information, Tokyo, Japan.

Email: sushi@tkac.polimi.it
(No relationships reported)

Board #288
11:00 AM - 12:30 PM
Physical Activity and Sedentary Behavior among Hispanic Obstructive Sleep Apnea Patients in Puerto Rico
Alexis Gonzalez-Rodriguez, Lucia del R. Martinez-Colon, Marta Aamaral-Figueroa, Farah A. Ramirez-Marrero, FACSM. University of Puerto Rico, Rio Piedras Campus, San Juan, Puerto Rico.

(No relationships reported)

Board #289
11:00 AM - 12:30 PM
Effects of Short Term Detraining in Metabolic Syndrome Patients
Felix Morales Palomo, Miguel Ramirez-Jimenez, Juan Fernando Ortega Forseca, Ricardo Mora Rodriguez. UCLM, Toledo, Spain.

Email: felixmoralespalomo@gmail.com
(No relationships reported)

Board #290
11:00 AM - 12:30 PM
Effect of Age on Sex Differences in the Inspiratory Muscle Metaboreflex
Joshua R. Smith, Andrew M. Alexander, Shane M. Hammer, Kaylin D. Didier, Stephanie P. Kurti, Ryan M. Broxterman, Thomas J. Barstow, FACSM, Craig A. Harms, FACSM. Kean University, Union, NJ.

Email: smithtb24@ksu.edu
(No relationships reported)

Board #291
11:00 AM - 12:30 PM
Respiratory Muscle Endurance And Cardiovascular Response To Hyperpnoea After Respiratory Muscle Training In Hypoxia
Keisito Katayama1, Erika Iwamoto2, Takahiro Shimizu3, Kazushige Hori1, Kenji Takao2, Nobukazu Kasai2, Daichi Sumi1, Koji Ishida1, Yasuhiro Suzuki2, Nagoya University, Nagoya, Japan. 1Sapporo Medical University, Sapporo, Japan. 2Japan Institute of Sports Sciences, Tokyo, Japan. 3Ritsumeikan University, Kusatsu, Japan. (Sponsor: William Sheel, FACSM)

Email: katayama@htc.nagoya-u.ac.jp
(No relationships reported)

Board #292
11:00 AM - 12:30 PM
Pulmonary Function And Endurance Performance In Triathlon
Kunanya Masodaisai1, Chia-Ting Su2, Chun-Ping Ye1, Chun-Hsin Lin1, Ai-Lun Yang1. 1University of Taipei, Taipei, Taiwan. 2Fu Jen Catholic University, New Taipei, Taiwan. (Sponsor: Kuo Chia-Hua, FACSM)

Email: kunanyamasodaisai@gmail.com
(No relationships reported)

Board #293
11:00 AM - 12:30 PM
Does Inspiratory Muscle Training Affect Leg Blood Flow during Hypoxic Exercise?
Shane A. Bielko, Chad C. Wiggins, Daniel G. Hursh, Timothy D. Mickleborough, FACSM, Joel M. Stager, FACSM, Robert F. Chapman, FACSM. Indiana University. Bloomington, IN. (Sponsor: Robert F. Chapman, FACSM)

Email: sabelko@iu.edu
(No relationships reported)
P190 Final Program

2790 Board #309 9:30 AM - 11:00 AM
The Acute Effect Of Massage On Local Skeletal Muscle Perfusion And Oxygenation: A Pilot Study
1University Gloucestershire, Gloucester, United Kingdom. 2University of North Carolina, Chapel Hill, NC. 3University of Winchester, Winchester, United Kingdom. 4University of Southampton, Southampton, United Kingdom.
(No relationships reported)

2790 Board #310 9:30 AM - 11:00 AM
In Vivo Intracellular Ca2+ Dynamics Over 7 Days Following Eccentric Contractions In Rat Skeletal Muscle
Ayaka Tabuchi,1 Hideki Shirakawa,2 David C. Poole, FACSM2, Yutaka Kano1. 1University of Electro-Communications, Tokyo, Japan. 2Kansas State University, Manhattan, KS. (Sponsor: David C Poole, FACSM)
Email: tabuchii@eee.pc.uec.ac.jp
(No relationships reported)

2791 Board #311 9:30 AM - 11:00 AM
Growth Inhibition Of Mesenchymal Stem Cells By Laminarin Definitions
Gaith Larguech1, Annabelle Cesaro1, Hechmi Toumi2, ivana Martinic2, Stephane Petout2, Richard Daniellou1, Eric Lepsessailles1.
1Centre hospitalier régional d’Orléans. Orleans University, Orleans, France. 2Centre de Biophysique Moléculaire, CNRS UPR 4301, 45071 Orleans, France, Orleans, France.
(No relationships reported)

2792 Board #312 9:30 AM - 11:00 AM
Leg Dominance and Fiber Type Composition Influence Landing Performance in Resistance-Trained Men
Jose A. Arevalo1, James R. Bagley2, Jakob J. Rosengarten1, Scott K. Lym1, Lee E. Brown, FACSM1, Pablo B. Costa2, Andrew J. Galpin2. 1California State University, Fullerton, Fullerton, CA. 2San Francisco State University, San Francisco, CA.
Email: joarevalo@fullerton.edu
(No relationships reported)

2793 Board #313 9:30 AM - 11:00 AM
Body Weight Support Training Modulates Muscle NF-κB p65 Expression Induced By Spinal Cord Injury
Lloyd P. Ruiz, Erika J. Hinahon, Emanuel Ruiz, Christina A. Estrada, Silvia Villameva, Ray D. de Leon, Stefan Keslacy. California State University, Los Angeles, Los Angeles, CA.
Email: lruiz13@calstatela.edu
(No relationships reported)

E-39 Free Communication/Poster - Systematic Reviews and Meta-Analysis

2794 Board #314 9:30 AM - 11:00 AM
Systematic Review Of The Association Between Physical Activity With Natural And Assisted Female Fertility
Kelly R. Evenson, FACSM1, Shana G. da Silva2, Kathryn R. Hesketh1. 1UNC-Chapel Hill, Chapel Hill, NC. 2Federal University of Pelotas, Pelotas, Brazil. 3UCL Institute of Child Health, London, United Kingdom.
(No relationships reported)
American College of Sports Medicine

E-40  Free Communication/Poster - Vascular Function

Board #325  9:30 AM - 11:00 AM
The Impact of Laminar and Oscillatory Shear Stress on Cellular Adhesion Molecule Expression in HUVEC
Edward B. Crabb, Daniel E. Conway, Lindsay M. LaFratta, Edmund O. Acvedo, FACSM, Robert L. Franco, FACSM.
Virginia Commonwealth University, Richmond, VA. (No relationships reported)

Board #326  9:30 AM - 11:00 AM
Physical Activity Attenuates NLRP3 Inflammasome-associated Vascular Dysfunction in Obese Mouse Heart
Jonghae Lee1, Yang Lee2, Kwangheon Kim1, Eunkyoung Park1, Junyoung Hong1, Yoongjung Park1. 1University of Houston, Houston, TX. 2Texas A&M Health Science Center College of Medicine, College Station, TX. Email: jlee88@central.uh.edu (No relationships reported)

Board #327  9:30 AM - 11:00 AM
Vigorous-Intensity Physical Activity May Improve Central Aortic Pressure Response to Glucose Loading in Overweight/Obese Men
Toru Yoshikawa, Hiroshi Kumagai, Kanae Myoenzonno, Tomoko Kaneko, Takehiko Tsujimoto, Kiyoshi Tanaka, FACSM, Seiji Maeda.
University of Tsukuba, Tsukuba, Japan. (Sponsor: Kiyoshi Tanaka, FACSM) Email: yoshikawa@live.jp (No relationships reported)

Board #328  9:30 AM - 11:00 AM
The Impact of Repetitive Long-duration Water Immersion on Vascular Function
Erin E. Simmons, Elizabeth R. Bergeron, John P. Florian. Navy Experimental Diving Unit, Panama City, FL. Email: ees06f@tamu.edu (No relationships reported)

Board #329  9:30 AM - 11:00 AM
Serum CTRPs Levels Are Associated With Exercise Training-induced Reduction Of Arterial Stiffness In The Elderly
Natsuki Hasegawa1, Shunpei Fujie1, Masataka Uchida1, Naoki Horii1, Toshiyuki Kurihara1, Kiyoshi Sanada1, Takafumi Hamaoka, FACSM2, Motoyuki Iemitsu1. 1Ritsumeikan University, Kusatsu, Japan. 2Tokyo Medical University, Tokyo, Japan. (Sponsor: Takafumi Hamaoka, FACSM) (No relationships reported)

Board #330  9:30 AM - 11:00 AM
Evidence Suggesting Reduced Macrovacular and Microvascular Dilator Function in Well-Healed Burned Survivors
Amy N. Adams1, Steven A. Romero1, Daniel Gagnon2, Manall F. Jaffery1, Matthew N. Cramer1, Ken Kouda1, Gilbert Morales2, Craig G. Crandall, FACSM. 1Institute for Exercise and Environmental Medicine, Dallas, TX. 2Montreal Heart Institute and Université de Montréal, Montreal, QC, Canada. Email: AmyAdams3@texashealth.org (No relationships reported)

Board #331  9:30 AM - 11:00 AM
Serum Salusin-a Level Is Associated With Exercise Training-induced Reduction Of Arterial Stiffness In The Elderly
Shunpei Fujie1, Natsuki Hasegawa1, Masataka Uchida1, Naoki Horii1, Kiyoshi Sanada1, Takafumi Hamaoka, FACSM2, Motoyuki Iemitsu1. 1Ritsumeikan University, Kusatsu, Japan. 2Tokyo Medical University, Tokyo, Japan. (Sponsor: Takafumi Hamaoka, FACSM) Email: sh0017hv@ed.ritsumei.ac.jp (No relationships reported)

Board #332  9:30 AM - 11:00 AM
Physical Fitness Protects Against Age-Related Vascular Dysfunction in the Lower Limb
Matthew J. Rossman1, H. Jonathan Groot2, Ryan S. Garten1, Eivind Wang1, Jan Helgren1, Jan Hoft3, Russell S. Richardson1. 1University of Colorado, Boulder, CO. 2University of Utah, Salt Lake City, UT. 3Virginia Commonwealth University, Richmond, VA. (Sponsor: Takafumi Hamaoka, FACSM) Email: natsuki.hasegawa@utoronto.ca (No relationships reported)

Board #333  9:30 AM - 11:00 AM
The Acute Effect of Total Resistance Training Load on Blood Pressure: A Meta-Analysis
Engell Quesada-Valle, Elizabeth Carpino-Rivera, Andrea Solera-Herrera. University of Costa Rica, San José, Costa Rica. Email: engellqp@gmail.com (No relationships reported)

Board #334  9:30 AM - 11:00 AM
Arterial Stiffness is Not Altered in Well-Healed Burn Survivors
Manall F. Jaffery1, Steven A. Romero1, Daniel Gagnon2, Amy N. Adams1, Ken Kouda1, Matthew N. Cramer1, Matthew N. Cramer1, Gilbert Morales2, Naomi Kennedy3, Craig G. Crandall, FACSM. 1Institute for Exercise and Environmental Medicine (IEEM), Dallas, TX. 2Université de Montréal, Montreal, QC, Canada. 3Wakayama Medical University, Wakayama, Japan. (Sponsor: Craig Crandall, FACSM) Email: manalljaffery@texashealth.org (No relationships reported)

Board #335  9:30 AM - 11:00 AM
Effect Of Topical EMLA Application On Cutaneous Sympathetic C-fiber Function
Kevin Wr Kunz, Gary W. Mack, 84602, FACSM. Brigham Young University, Provo, UT. (Sponsor: Gary W. Mack, FACSM) (No relationships reported)
Board #336 9:30 AM - 11:00 AM  Effect Of Habitual Interval Walking On Arterial Stiffness In Older Adults  Takanobu Okamoto, Ryota Kobayashi, Yuto Hashimoto, Hiroyuki Hatakeyama. Nippon Sport Science University, Setagaya-ku, Tokyo, Japan. Email: tokamoto@nittai.ac.jp  (No relationships reported)  

Board #337 9:30 AM - 11:00 AM  Post Exercise Hypotension and Blood Flow Characteristics Between Eccentric and Concentric Exercise  Jon Stavres, Stephen Fischer, John McDaniel. Kent State University, Kent, OH.  (No relationships reported)  

Board #338 9:30 AM - 11:00 AM  Reductions In Posterior Cerebral Blood Flow Are Susceptible To Orthostatic Stress During Post-exercise Acute Hypotension  Takuro Washio1, Jennifer R. Vranish2, Jasdeep Kaur2, Benjamin E. Young3, Paul J. Fadel, FACSM4, Shigehiko Ogoh, FACSM5. 1Toyo university, kawagoe, Japan. 2University of Texas at Arlington, Arlington, TX. (Sponsor: Shigehiko Ogoh, FACSM)  Email: twashio@gmail.com  (No relationships reported)  

Board #339 9:30 AM - 11:00 AM  Internal Laboratory Validation of Flow Mediated Dilatation Analyses  Brycen J. Ratcliffe, Robert Pawlak, Francisco Morales, Caleb Harrison, Alvaro N. Gurovich, FACSM, Indiana State University, Terre Haute, IN. (Sponsor: Alvaro N Gurovich, FACSM)  Email: bratcliffe62@iskeyamores.indstate.edu  (No relationships reported)  

Board #340 9:30 AM - 11:00 AM  Influence of an Acute Bout of Sitting on Leg Vascular Function  Jennifer R. Vranish1, Benjamin E. Young1, Brandi Y. Stephens1, Jasdeep Kaur1, Jaume Padilla4, Paul J. Fadel, FACSM5. 1University of Texas at Arlington, Arlington, TX. 2University of Missouri, Columbia, MO. (Sponsor: Paul J. Fadel, FACSM)  (No relationships reported)  

Board #341 9:30 AM - 11:00 AM  Habitual Endurance Exercise And Vascular Mechanical Biomarkers Derived From Arterial Reservoir Pressure Analyses  Hsin-Fu Lin1, Takashi Tarumi2, Andreana Haley3, Hao-Min Cheng4, Chen-Huan Chen5, Hirofumi Tanaka, FACSM6. 1National Taiwan University, Taipei, Taiwan. 2University of Texas-Southwestern Medical Center, Dallas, TX. 3University of Texas at Austin, Austin, TX. 4Taipei Veterans General Hospital, Taipei, Taiwan. (Sponsor: Hirofumi Tanaka, FACSM)  Email: datole.lin@gmail.com  (No relationships reported)  

Board #342 9:30 AM - 11:00 AM  High Fit Older Adults Maintain a Similar Endothelial Response to Acute Inflammation as Younger Adults  Elizabeth C. Schroeder1, Abbi D. Lane-Cordova2, Sushant M. Ranadive3, Tracy Baynard, FACSM4, Bo Fernhall, FACSM5. 1University of Illinois at Chicago, Chicago, IL. 2Northwestern University, Chicago, IL. 3Mayo Clinic, Rochester, MN. (Sponsor: Bo Fernhall, FACSM)  (No relationships reported)  

Board #343 9:30 AM - 11:00 AM  Arterial Distensibility and Compliance Following Hypovolemic Challenge in Individuals with and without Down Syndrome  Sang Ouk Wee, 60607, Alexander J. Rosenberg2, Kanokwan Bunsawat1, Garett Griffith3, Tracy Baynard, FACSM4, Bo Fernhall, FACSM5. 1University of Illinois at Chicago, CHICAGO, IL. 2University of Illinois at Chicago, Chicago, IL.  (No relationships reported)  

Board #344 9:30 AM - 11:00 AM  Reliability of the Passive Leg Movement Assessment of Vascular Function  H Jonathan Groot1, Ryan M. Broxtermann2, Ryan S. Garten1, Matthew J. Rossman1, Jayson R. Gifford3, Oh Sung Kwon4, Jay R. Hydren1, Russell S. Richardson1. 1University of Utah, Salt Lake City, UT. 2Geriatric Research, Education, and Clinical Center, Salt Lake City, UT. 3Virginia Commonwealth University, Richmond, VA. 4University of Colorado Boulder, Boulder, CO.  (No relationships reported)  

Board #345 9:30 AM - 11:00 AM  Quantification of Sympathetic Transduction in Type 2 Diabetes Patients  Benjamin E. Young1, Jennifer R. Vranish1, Seth W. Holwerda2, David M. Keller1, Paul J. Fadel, FACSM5. 1University of Texas at Arlington, Arlington, TX. 2University of Iowa, Iowa City, IA. (Sponsor: Paul J. Fadel, FACSM)  (No relationships reported)  

Board #346 9:30 AM - 11:00 AM  Exercise And Vascular Function In Overweight And Obese Adults: A Meta-analysis  Yoonsun Son1, Kyungun Kim2, Soeun Jeon1, Minsoo Kang, FACSM3, Yoonjung Park4. 1University of Houston, Houston, TX. 2The University of Texas at Austin, Austin, TX. 3Texas A&M University-San Antonio, San Antonio, TX. 4Middle Tennessee State University, Murfreesboro, TN. Email: xppzim@naxem.com  (No relationships reported)  

Board #347 9:30 AM - 11:00 AM  Cardiorespiratory Fitness and Adiposity do not Predict Vascular Reactivity in Sedentary Men and Women  Siddharth A. Angadi1, Catherine L. Jarrett1, Wesley J. Tucker2, Brandon J. Sawyer3, Zachary S. Zeigler4, Glenn A. Gaesser, FACSM3, Yannis Pitsiladis, FACSM4, Yoonjung Park1. 1Syracuse University, Syracuse, NY. 2Texas A&M University, College Station, TX. 3University of Utah, Salt Lake City, UT. 4Toyo university, kawagoe, Japan.  (No relationships reported)  

Board #348 9:30 AM - 11:00 AM  Effect of Sitting Time on Measures of Subclinical Atherosclerosis in Older Adults  Jacob F. DeBloss, Wesley K. Lefferts, Jacqueline A. Augustine, Kayla N. Nunemacher, Kevin S. Heffernan. Syracuse University, Syracuse, NY. (Sponsor: Denise L. Smith, FACSM)  (No relationships reported)  

Board #349 9:30 AM - 11:00 AM  Anti-Bacterial Mouthwash Reduces Plasma Nitrite Following Dietary Nitrate Supplementation but Does Not Alter Stress Response  Chris Easton1, Chris Monaghan1, Luke Liddle1, Luke McIlvenna2, Mia Burleigh1, David J. Muggeridge1, Bernadette O. Fernandez2, Martin Feelisch3. 1University of the West of Scotland, Hamilton, United Kingdom. 2University of Strathclyde, Glasgow, United Kingdom. 3University of Southampton, Southampton, United Kingdom. (Sponsor: Professor Vannis Pitsiladis, FACSM)  Email: chris.easton@uws.ac.uk  (No relationships reported)
Free Communication/Poster - Women-Exercise Responses

Friday, June 2, 2017, 7:30 AM - 12:30 PM
Room: Hall F

Board #357 9:30 AM - 11:00 AM
Vascular and Temperature Changes During and After Applications of Superficial Heat Therapy
Jihong Park, Sunghoon Kang, Kyung Hee University, Yongin, Korea, Republic of.
Email: jihong.park@khu.ac.kr
(No relationships reported)

Board #358 11:00 AM - 12:30 PM
Effects of Aquarobic Exercise on Senior Fitness, Prostaglandin I$_2$, And Thromboxane A$_2$ in Elderly Korean Women
Do-Yeon Kim1, Ji-Hyeon Kim1, Jong-Won Kim2, Su-Jin Hyun1, Jung-Sook Kim1, Su-Han Koh1, Ji-Hoon Kim1, Min-Soong Ha1, 1Pusan National University, Busan, Korea, Republic of; 2Busan National University of Education, Busan, Korea, Republic of.
(No relationships reported)

Board #359 11:00 AM - 12:30 PM
Total Workload And Energy Expenditure During And After A Bodypump Session In Overweight Women
Anne Mette Rustaden1, Christina Gjestvang1, Kari Bu1, Lene Annette Hagen Haakstad1, Goran Paulsen1, 1Norwegian School of Sports Sciences, Oslo, Norway; 2The Norwegian Olympic and Paralympic Committee and Confederation of Sport, Oslo, Norway.
Email: anne.mette.rustaden@rah.no
(No relationships reported)

Board #360 11:00 AM - 12:30 PM
Can The Lamberts Submaximal Cycle Test Reflect Overreaching In Professional Female Cyclists?
Lieselot Decroix1, Robert Patrick Lamberts2, Romain Meeusen, FACSM1, 1Vrije Universiteit Brussel, Brussel, Belgium; 2University of Cape Town, Cape Town, Belgium.
Email: lieselot.decroix@vub.ac.be
(No relationships reported)

Board #361 11:00 AM - 12:30 PM
Acute Inflammatory and Blood Pressure Response to Episodic Resistance Exercise in Young, Healthy Females
Katherine LeWine, Elizabeth Mullin, Brian Thompson, Samuel A.E Headley, FACSM, Springfield College, Springfield, MA. (Sponsor: Dr. Samuel Headley, FACSM)
(No relationships reported)

Board #362 11:00 AM - 12:30 PM
Effect of Combined Exercise on Urinary Incontinence in Postmenopausal Women
Sun Young Na1, Nan Hee Lee1, Chung Moo Lee2, John D. Smith2, Sukho Lee1, 1Sookmyung Women’s University, Seoul, Korea, Republic of; 2Texas A&M University, San Antonio, San Antonio, TX.
(No relationships reported)

Board #363 11:00 AM - 12:30 PM
Effect of Etioologically Mediated Cardiorespiratory Dysfunction on Resistance to Fatigue in Women with Systemic Lupus Erythematosus (SLE)
Liana C. Wooten, Monira I. Aldhahi, Randall E. Keyser, FACSM, FACSM, George Mason University, Fairfax, VA.
(No relationships reported)
This featured symposium will overview the importance of circadian rhythm as a biological process which influences exercise and muscle biology. New findings reveal that biological circadian clocks are cell autonomous mechanisms that confer the selective advantage of anticipation. Cardiac and skeletal muscle have two predictable cycles to contend with on a daily basis; namely sleep/wake and fasting/feeding cycles. Regulation of circadian process is especially important to prepare muscle for periods of activity and exercise. Findings from the Young laboratory include new evidence that the myocyte circadian clock temporally partitions muscle metabolism, promoting oxidative metabolism at the beginning of the active period (in anticipation of energetic demand upon awakening), nutrient storage towards the end of the active period (in anticipation of the fast during sleep), and turnover and replacement of cellular constituents during the sleep period (in anticipation of muscular activity upon awakening). The importance of orchestrating metabolism in this manner is highlighted following disruption of myocyte clocks, resulting in impaired performance and cardiometabolic disease. Work from the Esser laboratory includes insight into the role of the clock mechanism in muscle to regulate both contractile and metabolic gene programs. Moreover, conceptual evidence suggests that the time of exercise may serve as a cue to set and synchronize the molecular clocks in skeletal muscle. In this regard, specific mechanistic findings into the role of E3 ligases as regulators of protein homeostasis and muscle contractions will be discussed. Speakers will provide applicable take home messages from these innovative findings as they relate to exercise, training adaptations, and muscle biology.

**F-02 Symposium - The World reSHAPED**

Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: Belco Theatre 3

Since fitness is an important health outcome predictor, it is vital to have a database with reference values in order to know what is considered a “normal” fitness. The general public can estimate their fitness using a freely available world fitness level app. More than 3 million people worldwide have used the app and we have their fitness data. Physical activity intelligence tool is also a freely available app which can tell people how much physical activity they need to do to improve health and live longer in addition to motivating those who struggle with inactivity to keep physically active.

**F-03 Symposium - Creating Positive Developmental Trajectories in Young Children**

Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 104

Motor skills and physical activity contribute to positive developmental trajectories of health for children. Emerging evidence suggests important links between movement and physical activity to other aspects of child development critical to academic success during the preschool years. In this symposium, speakers will discuss: 1) ecological perspectives of factors that influence physical activity and motor skills in children; 2) self-regulation, its connection to physical activity and motor skills and potential avenue to promote self-regulation through movement; 3) school readiness and executive function in preschoolers, and 4) policies used which prevent and promote motor skills and physical activity in childcare settings.
This symposium will help attendees to become familiar with and understand the evidence regarding the influence of exercise mode during pregnancy and benefits to offspring at birth and beyond.

F-04 Symposium - Benefits of Different Exercise Modes During Pregnancy on Perinatal Outcomes
Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 302

1:00 PM - 1:05 PM
Chair: Linda E. May, East Carolina University, Greenville, NC. (No relationships reported)

1:05 PM - 1:30 PM
Guidelines for Physical Activity During Pregnancy: Comparisons from Around the World
Kelly R. Evenson, FACSM. University of North Carolina, Chapel Hill, NC. (No relationships reported)

1:30 PM - 1:55 PM
Activity Patterns during Pregnancy Relative to Current Guidelines
Michelle Mottola, FACSM. University of Western Ontario, London, ON, Canada. (No relationships reported)

1:55 PM - 2:20 PM
Different Types of Exercise Training During Pregnancy and Offspring Size
Sarah Hopkins. The University of Auckland, Auckland, New Zealand. (No relationships reported)

2:20 PM - 2:45 PM
Influence of Exercise Types on Birth/Offspring Outcomes
Maria Perales. Camilo Jose Cela University, Madrid, Spain. (No relationships reported)

2:45 PM - 3:00 PM
Overall Discussion

F-05 Symposium - Interactions of Glucose Regulation and Bone Health
Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 607

1:00 PM - 1:10 PM
Chair: Vanessa D. Sherk. University of Colorado Anschutz Medical Campus, Aurora, CO. (No relationships reported)

1:10 PM - 1:40 PM
Metabolic Dysfunction in Skeletal Tissue
Vanessa D. Sherk. University of Colorado Anschutz Medical Campus, Aurora, CO. (No relationships reported)

2864 1:40 PM - 2:10 PM

Metabolic Dysfunction in Skeletal Tissue
Vanessa D. Sherk. University of Colorado Anschutz Medical Campus, Aurora, CO. (No relationships reported)

2865 1:40 PM - 2:10 PM
Bone Health in Type 1 Diabetes
Viral Shah. University of Colorado Anschutz Medical Campus, Denver, CO. (No relationships reported)

2866 2:10 PM - 2:40 PM
Is There a Role for Vitamin D in Glucose Regulation?
Sue Shapses. Rutgers University, New Brunswick, NJ. (No relationships reported)

2867 1:00 PM - 1:10 PM
Chair: David C. Nieman, FACSM. Appalachian State University, Boone, NC. (No relationships reported)

2868 1:10 PM - 1:40 PM
Immunometabolism: Learning More About Exercise Immunology from Metabolomics and Proteomics-Based Investigations
David C. Nieman, FACSM. Appalachian State University, Kannapolis, NC. (No relationships reported)

2869 1:40 PM - 2:10 PM
Applying Proteomics in Exercise-Based Studies
Arnold J. Groen. University of Cambridge, Cambridge, United Kingdom. (No relationships reported)

2870 2:10 PM - 2:40 PM
Applying Metabolomics in Exercise-Based Studies
Kirk Pappan. Metabolon, Inc., Durham, NC. (No relationships reported)

Heavy exertion has a profound, acute effect on human metabolism, but most studies have focused on a small, targeted number of biochemical outcome measures. The recent development of metabolomics and proteomics profiling technologies provides a system-wide view of the metabolic response to exercise by simultaneously measuring and identifying a large number of small molecules and proteins. Recent studies show that metabolites and proteins with linkages to inflammation and immune function are elevated after prolonged and intensive exercise. In general, exercise activates multiple molecular pathways, many involving the immune system, and these are sensitive to nutritional influences. Metabolomics and proteomics are particularly useful in interpreting human immune responses to nutritional manipulation within the exercise context, and improves the capacity to capture complex and subtle influences on whole body metabolism and physiology. Metabolomics and proteomics data have the potential to shape a new generation of integrative studies using metabolite measurements with immunology, molecular epidemiology, genomics, and transcriptomics.
**F-07 Symposium - Jumping Performance of the Maasai People**

Friday, June 2, 2017, 1:00 PM - 3:00 PM  
Room: 110

The symposium includes three speakers who will describe the lifestyle of the Maasai, a Nilotic and agro-pastoralist people residing in Kenya and Tanzania, and their extreme jumping capabilities. The speakers will share recently obtained anatomical, anthropometric, and biomechanical data and its influence on jumping performance. Based on a number of field studies carried out over the last decade, the first speaker will set the scene by describing the Maasai people, culture and tradition of living, daily activity profiles, metabolism, aerobic performance, dietary intake, cardio-metabolic diseases, and changes in lifestyle and health with increasing urbanization (Introduction and Presentation 1). From a recent biomechanical field study conducted in Tanzania (January 2016), the two subsequent speakers will present A) biomechanical (kinetic, kinematic, and EMG) data on maximal and repetitive jumping in Maasai people (Presentation 2), and B) anthropometric characteristics and data on mechanical tendon properties and muscle-tendon function during repetitive jumping (Presentation 3).

**2871 1:00 PM - 1:10 PM**  
Chair: Dirk Lund Christensen. University of Copenhagen, Copenhagen, GU, Denmark.  
(No relationships reported)

**2872 1:10 PM - 1:40 PM**  
Metabolism in Health and Disease, and Daily Physical Activity Profiles of the Maasai People  
Dirk Lund Christensen. University of Copenhagen, Odense, GU, Denmark.  
(No relationships reported)

**2873 1:40 PM - 2:10 PM**  
Maximal Jumping Performance of Maasai People  
Per Aagaard. University of Southern Denmark, Odense, Denmark.  
(No relationships reported)

**2874 2:10 PM - 2:40 PM**  
Mechanical Properties of Tendon and Muscle-tendon Function During Ritual Jumping of Maasai People  
Jens Bojsen-Møller. Norwegian School of Sport Sciences, Oslo, Norway.  
(No relationships reported)

**2875 2:40 PM - 3:00 PM**  
Overall Discussion

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**F-08 Basic Science World Congress - Thematic Poster - Neuroplasticity and Cerebral Perfusion**

Friday, June 2, 2017, 1:00 PM - 3:00 PM  
Room: 304

**2875 Chair**: Hirofumi Tanaka, FACSM. University of Texas at Austin, Austin, TX.  
(No relationships reported)

**2876 Board #1 1:00 PM - 3:00 PM**  
Habitual Physical Activity Mitigates the Adverse Effects of Metabolic Syndrome on Arterial Stiffness and Cerebral White Matter Integrity  
Evan P. Paetau, Alex C. Birdsill, Stephanie Oleson, Andreana P. Haley, Hirofumi Tanaka, FACSM. The University of Texas at Austin, Austin, TX. (Sponsor: Hirofumi Tanaka, FACSM)  
Email: evan.pasha@utexas.edu  
(No relationships reported)
F-09  Thematic Poster - Cardiovascular Regulation

Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 403

2884  Board #8  1:00 PM - 3:00 PM
Assessing Cerebrovascular Responsiveness: Comparing Functional Magnetic Resonance Imaging With Doppler Ultrasound
Claire V. Burley1, Karen J. Mullinger2, Susan T. Francis3, Anna C. Phillips1, Samuel J.E. Lucas1, 1University of Birmingham, Birmingham, United Kingdom. 2University of Birmingham / University of Nottingham, Birmingham / Nottingham, United Kingdom. 3University of Nottingham, Nottingham, United Kingdom. (Sponsor: Prof Damian Bailey, FACSM)
Email: CVB469@student.bham.ac.uk
(No relationships reported)

2885  Board #1  1:00 PM - 3:00 PM
Are Vascular Conductance and Muscle Blood Flow During Exercise Affected by Hypoxia and Arterial Perfusion Pressure? Rodrigo Villar1, Richard L. Hughson2. 1Franklin Pierce University, Rindge, NH. 2University of Waterloo, Waterloo, ON, Canada.
(No relationships reported)

2886  Board #2  1:00 PM - 3:00 PM
Blood Flow Regulation and Oxygen Uptake during High Intensity Forearm Exercise
Eivind Wang1, Stian K. Nyberg1, Ole K. Berg2, Jan Helgerud1. 1Norwegian University of Science and Technology, Trondheim, Norway. 2Molde University College, Molde, Norway.
Email: eivind.wang@ntnu.no
(No relationships reported)

2887  Board #3  1:00 PM - 3:00 PM
Regional Cerebral Blood Flow Responses to Graded Sympathetic Activation in Young Healthy Subjects
Jasdeep Kaur1, Takuro Washio2, Jennifer R. Vranish1, Benjamin E. Young1, R. Matthew Brothers1, Shigehiko Ogoh3, FACSM1, Paul J. Fadel, FACSM4. 1University of Texas at Arlington, Arlington, TX. 2Toyo University, Saitama, Japan. 3University of Illinois at Chicago, Chicago, IL. 4University of Waterloo, Waterloo, ON, Canada.
(No relationships reported)

2888  Board #4  1:00 PM - 3:00 PM
Muscle Blood Flow Responses to Dynamic Handgrip Exercise in Young Obese Adults
Kanokwan Bunsawat, Georgios Grigoriadis, Garett Griffith, Sang Oak Woe, Elizabeth Schroeder, Bo Fennhall, FACSM, Tracy Baynard, FACSM. 1University of Illinois at Chicago, Chicago, IL. (Sponsor: Tracy Baynard, FACSM)
Email: bunsawat2@uic.edu
(No relationships reported)

2889  Board #5  1:00 PM - 3:00 PM
Reduced Skeletal Muscle Blood Flow In Persons With Multiple Sclerosis Exhibiting Autonomic Nervous System Dysfunction
Nathaniel B. Kellhubt, Christopher M. Hearon, Frank A. Dinanno, Thorsten Rudrof, FACSM. Colorado State University, Fort Collins, CO. (Sponsor: Thorsten Rudrof, FACSM)
Email: nathan.kellhubt@colostate.edu
(No relationships reported)

2890  Board #6  1:00 PM - 3:00 PM
Oxygen Extraction Reserve Immediately After Ramp Incremental Maximal Exercise: Beyond the Deoxy-hemoglobin Breaking Point
E. Calaine Inglis, Danilo Iannetta, Juan M. Murias. University of Calgary, Calgary, AB, Canada. (Sponsor: Donald H Paterson, FACSM)
Email: ecinglis@ucalgary.ca
(No relationships reported)
2904 Board #4 1:00 PM - 3:00 PM
Dehydration Impairs Exercise Performance Independent of Thirst Perception: A Blinded Study
J.D. Adams, Yasuki Sekiguichi, Adam Seal, Hyun-Gyu Suh, Cameron Spong, Lisa Jansen, Stavros A. Kavouras, FACSM. University of Arkansas, Fayetteville, AR. (Sponsor: Stavros A. Kavouras, FACSM)
Email: jxa014@uark.edu
(No relationships reported)

2905 Board #3 1:00 PM - 3:00 PM
Thirst Modulates Cycling Performance in the Heat in Dehydrated Males
Yasuki Sekiguchi1, J.D Adams2, Adam Seal1, Hyun-Gyu Suh2, Cameron Spong1, Lisa Jansen1, Stavros A. Kavouras, FACSM1.
1University of Connecticut, Storrs, CT. 2University of Arkansas, Fayetteville, AR.
Email: yasuki.sekiguchi@uconn.edu
(No relationships reported)

2906 Board #4 1:00 PM - 3:00 PM
Effects of Dose Timing on Fluid Retention during Sodium-Aided Hyperhydration Protocols
David Morris1, Shelby Greene2, Elizaveta Roslanova2. 1University of Texas, Odessa, TX. 2University of Texas, odessa, TX.
Email: morris_da@utpb.edu
(No relationships reported)

2907 Board #5 1:00 PM - 3:00 PM
Time-course Of Diuresis During Sodium-aided Hyperhydration Protocols With And Without Caffeine
Elizaveta Roslanova, David M. Morris. University of Texas, Odessa, TX. (Sponsor: Alan Utter, FACSM)
Email: lisa-roslanova@hotmail.com
(No relationships reported)

F-12 Thematic Poster - Neuromechanics of Concussion
Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 101

2908 Chair: Kevin Guskiewicz, FACSM. University of North Carolina, Chapel Hill, NC.
(No relationships reported)

2909 Board #1 1:00 PM - 3:00 PM
The Effect of Tackling Form on Head Accelerations Experienced by Youth Football Players
Eric Schussler1, Richard Jagacinski2, John Buford,F, Ajit Chaudhari, FACSM, Susan White1, James Onate2. 1Old Dominion University, Norfolk, VA. 2The Ohio State University, Columbus, OH.
Email: schussler.eric@gmail.com
(No relationships reported)

2910 Board #2 1:00 PM - 3:00 PM
Isometric Cervical Muscle Strength Does Not Affect Head Impact Kinematics in High School Boys' Lacrosse
Patricia Kelshaw1, Nelson Cortes1, Amanda Caswell1, Andrew Lincoln1, Shane Caswell1. 1George Mason University, Manassas, VA. 2MedStar Sports Medicine, Baltimore, MD.
Email: scaswell@gmu.edu
(No relationships reported)

2911 Board #3 1:00 PM - 3:00 PM
Head Impact Density A Better Estimator Of Concussion Than Threshold
Steven P. Broglio, FACSM1, Andrew Lapointe1, Kathryn O’Connor1, Michael McCrea2. 1University of Michigan, Ann Arbor, MI. 2Medical College of Wisconsin, Milwaukee, WI.
(No relationships reported)

2912 Board #4 1:00 PM - 3:00 PM
Concussion History And Kinematics Of Dynamic Balance In Division I Athletes: A Pilot Study
Email: moira.pryhoda@du.edu
(No relationships reported)
Board #5 1:00 PM - 3:00 PM
The Relationship Between Post-Concussion Neurocognitive Performance and Postural Control
Katelyn Grimes1, Emily Lasko2, Megan E. Mornmle1, Brian J. Szekely1, Barry A. Munkasy2, Douglas W. Powell3, Nicholas G. Murray1.
1: Georgia Southern University, Statesboro, GA. 2: University of Memphis, Memphis, TN. 3: Institute for Exercise and Environmental Medicine, Dallas, TX. (No relationships reported)

Board #6 1:00 PM - 3:00 PM
Gender Specific Differences In Knee Kinematics Between Participants With And Without A Concussion History
Andrew P. Lapointe, Luis Nolasco, Aniela Soznowski, Eva Andrews, Douglas N. Martini, Deanna H. Gates, Steven P. Broglio, FACSM.
University Of Michigan, Ann Arbor, MI. (No relationships reported)

Board #7 1:00 PM - 3:00 PM
Assessments Of Standing Balance In Division I Athletes With History Of Concussion: A Pilot Study
Jenna J. Powell, Moira K. Pyhoda, Hammam Belgasem, William Sanders, Kevin B. Shellburne, Ann-Charlotte Granholm-Bentley, Bradley S. Davidson, University Of Denver, Denver, CO. (No relationships reported)

Board #8 1:00 PM - 3:00 PM
Postural and Gaze Stability Deficits Following Concussion
Nicholas G. Murray1, Brian Szekely1, Megan E. Mornmle1, Peter Chrysosferidis1, Katelyn Grimes1, Barry A. Munkasy2, Douglas Powell3. 1: Georgia Southern University, Statesboro, GA. 2: University of Memphis, Memphis, TN. (No relationships reported)

F-13 Free Communication/Slide - Cardiovascular Assessment and Training Responses
Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 402

Chair: Mark A. Sarzynski, FACSM. University of South Carolina, Columbia, SC. (No relationships reported)

1:00 PM - 1:15 PM
Effect of Prolonged Endurance Training on Ambulatory Systolic Blood Pressure and Arterial Function
Erin J. Howden1, Justin S. Lawley2, Mitchel Samels3, Dean Palmer4, Braden Evrting1, Sheryl Livingstoin1, Satyam Sarna2, Benjamin D. Levine, FACSM1. 1: Ut Southwestern Medical Center, Dallas, TX. 2: Texas Health Presbyterian Dallas, Dallas, TX. (Sponsor: Benjamin D Levine, FACSM) Email: erin.howden@bakeridi.edu.au (No relationships reported)

1:15 PM - 1:30 PM
Safety, Detection and Hemodynamic Effects of Acute Xenon Inhalation: Implications for Athletic Doping Practices
Justin S. Lawley1, Gatterer Hannes1, Erin J. Howden1, Satyam Sarna1, Michinari Hieda1, Christopher Hearon Jr1, Max Hendrix1, Thomas Piper1, Mario Thevis1, Benjamin D. Levine, FACSM1. 1: Institute for Exercise and Environmental Medicine, Dallas, TX. 2: University Innsbruck, Innsbruck, Austria. 3: University of Texas Southwestern Medical Center, Dallas, TX. 4: German Sport University Cologne, Cologne, Germany. (No relationships reported)

F-14 Free Communication/Slide - Exercise and Chronic Disease
Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 401

Chair: Matthew Harber, FACSM. Ball State University, Muncie, IN. (No relationships reported)
P200 Final Program

2927 1:00 PM - 1:15 PM
Exercise Training Improves Ventilatory Efficiency in Patients With Small Abdominal Aortic Aneurysm: A Randomized Controlled Study
Ricardo M. Lima1, Baruch Vainselboim2, Rucha Ganatra3, Ronald Dalman4, Khin Char5, Jonathan Myers, FACSM1. 1University of Brasilia, Brasilia, Brazil. 2VA Palo Alto Health Care System and Stanford University, Palo Alto, CA. 3Stanford University, Stanford, CA. (Sponsor: Jonathan Myers, FACSM)
(No relationships reported)

2928 1:15 PM - 1:30 PM
Associations Between Perceptual and Ventilatory Responses to Exercise: Effect of Sympathetic Blockade
Email: braden.mitchell@mymsl.unisa.edu.au
(No relationships reported)

2929 1:30 PM - 1:45 PM
Cardiorespiratory Fitness Versus Physical Activity as Predictors of All-Cause Mortality in Men
Taryn Davidson1, Baruch Vainselboim2, Peter Kokkinos, FACSM3, Jonathan Myers1, Robert Ross, FACSM1. 1Queen’s University, Kingston, ON, Canada. 2Veterans Affairs Palo Alto Health Care System and Stanford University, Palo Alto, CA. 3Veterans Affairs Medical Center and Georgetown University School of Medicine, Washington, DC. (Sponsor: Robert Ross, FACSM)
Email: taryn.davidson@queensu.ca
(No relationships reported)

2930 1:45 PM - 2:00 PM
Can A Prediction Formula Accurately Predict Cardiorespiratory Fitness In Fibromyalgia Patients?
Pierre Boulay, Lucie Bouvrette LeBlanc, Daniel Tessier, Warner Mampuya, Pierre Arcensault, Nathaly Gaudreault. Sherbrooke University, Sherbrooke, QC, Canada.
Email: pierre.boulay@usherbrooke.ca
(No relationships reported)

2931 2:00 PM - 2:15 PM
The Immediate Antihypertensive Effects of Aerobic Exercise: A Meta-Analysis
Lauren ML Corso1, Hayley V. MacDonald2, Blair T. Johnson1, Jill Livingston1, Alyssa Jones1, Linda S. Pescatello, FACSM1. 1University of Connecticut, Storrs, CT. 2The University of Alabama, Tuscaloosa, AL. (Sponsor: Dr. Linda S. Pescatello, FACSM)
Email: lauren.lamberti@uconn.edu
(No relationships reported)

2932 2:15 PM - 2:30 PM
Effect of Differential Exercise Intensities on Interleukin-22 in Metabolic Syndrome
Joyce S. Ramos1, Lance C. Dulleck, FACSM2, Gregore I. Mielke3, Shelley E. Keating1, Michael McGuckin3, Lydia S. Murray1, Sumairah Harnain1, Robert G. Fasset2, Jeff S. Coombes, FACSM3. 1University of Queensland, Brisbane, Australia. 2Western State Colorado University, Gunnison, CO. (Sponsor: Wendy Brown, FACSM)
Email: mary.ramos@uq.net.au
(No relationships reported)

2933 2:30 PM - 2:45 PM
Effects Of Aerobic & Resistance Training On Cardiorespiratory Fitness In People Living with HIV. A Meta-analysis
Camilo G.A. Pérez Chaparro1, Philipp A. Zech1, Stephan Heinzel2, Frank Mayer1, Bernd Wolfarth1, Michael Rapp1, Andreas Heißel1. 1University of Potsdam, Potsdam, Germany. 2Freie Universität Berlin, Berlin, Germany. 3Humboldt Universität, Berlin, Germany.
Email: perezchau@uni-potsdam.de
(No relationships reported)

2934 2:45 PM - 3:00 PM
Role Of Physical Activity In Closing The Life Expectancy Gap of People With Mental Illness
Simon Rosenbaum1, Anita Hobson-Powell2, Kade Davison3. 1Catherine Elliot4, Philip B. Ward4. 1Exercise & Sports Science Australia & UNSW, Sydney, Australia. 2Exercise & Sports Science Australia, Queensland, Australia. 3Exercise & Sports Science Australia & University of South Australia, Adelaide, Australia. 4Sport and Exercise Science New Zealand & Lincoln University, Canterbury, New Zealand. (Sponsor: Robert Ross, FACSM)
Email: srosenbaum@unsw.edu.au
(No relationships reported)

F-15 Free Communication/Slide - Perception of Effort, Pain and Fatigue
Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 103

2935 1:15 PM - 1:30 PM
Influence Of Physical Activity And Sedentary Behavior On Anticipation-related Pain Sensitivity In Gulf War Veterans With Chronic Muscle Pain
Jacob Lindheimer1, Aaron Stegner2, Stephanie VanRiper2, Laura Ellingson1. 1US Department of Veterans Affairs, East Orange, NJ.
2University of Wisconsin-Madison, Madison, WI. (Sponsor: Dane Cook, FACSM)
Email: jacob.lindheimer@va.gov
(No relationships reported)

2936 1:30 PM - 1:45 PM
Playing With A Friend Or Parent, Versus Playing Alone, Moderates Associations Between Hr And Rpe.
Mallory S. Kobak1, Andrew Lepp2, Jacob E. Barkley1, Michael J. Reboll3. 1The University of Akron, Akron, OH. 2Kent State University, Kent, OH. 3Hiram College, Hiram, OH. (Sponsor: Ellen L. Glickman, FACSM)
Email: msk27@zips.uakron.edu
(No relationships reported)

2937 1:45 PM - 2:00 PM
Altered Breathing Pattern Responses to Exercise in Veterans with Fatiguing Illness
Michael J. Falvo1, Jacob Lindheimer1, Jacquelyn Klein1, Duncan Ndirangu1, Yang Chen1, Michael Condon1, Dane Cook, FACSM2. 1VA NJ Health Care System, East Orange, NJ. 2University of Wisconsin-Madison, Madison, WI. (Sponsor: Dane Cook, FACSM)
Email: Michael.Falvo@va.gov
(No relationships reported)
American College of Sports Medicine

FRIDAY, JUNE 2, 2017

F-16 Free Communication/Slide - Prospective Studies of Physical Activity and Health

Friday, June 2, 2017, 1:00 PM - 3:00 PM
Room: 507

2941 2:15 PM - 2:30 PM
Perceptions At Moderate Work Intensity In Temperate And Hot Conditions In Trained And Untrained Individuals
Aitor Coca, Tyler Quinn, Yongsu Seo, Tianzhuo Wu, Amanda Strauch, Raynond Roberge, Jun-Hyun Kim. NIOSH/NPPTL, Pittsburgh, PA.
Email: esq6@cdc.gov
(No relationships reported)

2942 2:30 PM - 2:45 PM
Comparison of Mood Response Through Five Weeks of a High Intensity Functional Training Competition
Allyson G. Box1, Gerald Mangine1, Linda Lager1, Brian Kiszczewicz2, Steven J. Petruzzello3, Yuri Feito, FACSM.1 University of Illinois Urbana-Champaign, Urbana, IL. (Sponsor: Yuri Feito, FACSM)
(No relationships reported)

2943 2:45 PM - 3:00 PM
Establishing Thresholds for Visual Discrimination of Intrinsic and Novel Coordination Patterns
Shaochen Huang, Qin Zhu. University of Wyoming, Laramie, WY.
Email: shuang5@uwyo.edu
(No relationships reported)

F-17 John R. Sutton Clinical Lecture - Sport and Regenerative Medicine: What’s All the Hype About?

Friday, June 2, 2017, 1:00 PM - 1:50 PM
Room: Bellco Theatre 1

2953 1:30 PM - 1:45 PM
Associations Of Sarcopenia And Low Muscular Strength With All-cause Mortality Among Us Older Adults
Ran Li1, Jin Xie1, Xi Zhang1, Jianjun Guo1, Yiqing Song1,2.1 China Institute of Sport Science, Beijing, China. 2Richard M. Fairbanks School of Public Health, Indiana University, Indianapolis, IN.
Email: liran@ciss.cn
(No relationships reported)
F-18 Tutorial Lecture - Obesity Disparities are Partially Explained by Ghrelin and Leptin Levels, Energy Balance and Nutrients

Friday, June 2, 2017, 1:00 PM - 1:50 PM
Room: 406

Plasma acetylated ghrelin (PAG), leptin, energy balance and nutrients impact obese (OB) and non-obese (NOB) individuals, and African and white Americans differently. High intensity interval exercise is effective in lowering PAG in NOB individuals, but produced minimal effect in OB subjects. Leptin influence on appetite varies with exercise intensity. When evaluated by sex and race, European and African Americans exhibited different responses for fat and lean mass when correlated with and predicted from PAG, energy balance (+/- 400 Kcals) and energy nutrients. These findings suggest that ghrelin, leptin and energy variables contribute to obesity disparities observed in different groups.

2954 Leslie J. Brandon, FACSM. Georgia State University, Atlanta, GA. (No relationships reported)

2955 Calvin L. Cole. Winnet Cancer Institute, Cancer Control, University of Rochester: Rochester, NY. (No relationships reported)

F-18A Tutorial Lecture - 2018 Physical Activity Guidelines for Americans: A Preview

Friday, June 2, 2017, 1:00 PM - 1:50 PM
Room: Hotel-Centennial Ballroom D

This session will start with a walk through of the steps leading to the next edition of the Guidelines, from the Advisory Committee’s work and analysis of its systematic literature review, and the role of the federal government in developing and disseminating the Guidelines. Next will be a discussion of how the 2008 Guidelines and the State of the Science meeting at ACSM in 2014 informed the creation of subcommittees and questions to address. The last discussion will be led by the current co-chair of the Advisory Committee who will discuss the work of the subcommittees and focus areas.

2955a Katrina L. Piercy. Office of Disease Prevention and Health Promotion, Rockville, MD. (No relationships reported)

2955b David Buchner, FACSM. University of Illinois, Champaign, IL. (No relationships reported)

2955c Kenneth E. Powell, FACSM. Atlanta, GA. (No relationships reported)

F-19 Colloquium - The Effect of Running on Joint Health

Friday, June 2, 2017, 2:10 PM - 3:00 PM
Room: Bello Ballroom 1

Findings from the UK and Australian-based ‘Health of Adults Longitudinal Observational Study’ will be presented; exploring the prevalence of knee symptoms and functional outcomes related to, and indicative of, the onset and progression of osteoarthritis (OA). Identification of risk factors associated with running will be discussed and presented relative to previous research. In addition, an evidence-based clinical algorithm will be presented to assist healthcare professionals who care for recreational runners with joint pain and symptoms, either in the presence or absence of OA diagnosis.

2956 Mark E. Batt. Arthritis Research UK Centre for Sport, Exercise and Osteoarthritis, Nottingham, United Kingdom. (No relationships reported)

2957 Richard D. Leech. Arthritis Research UK Centre for Sport, Exercise and Osteoarthritis, Nottingham, United Kingdom. (No relationships reported)

F-20 Tutorial Lecture - ACL Injury Prevention Programs Best Practice

Friday, June 2, 2017, 2:10 PM - 3:00 PM
Room: 603

ACL injuries predispose a person’s knees to future development of osteoarthritis. Studies suggest a beneficial effect of ACL injury prevention programs (IPP) on reduction in ACL injuries. Multiple meta-analysis have looked at the components of IPP for effective programs. In the literature, different authors have suggested components for most effective IPP. Despite the lack of unanimity of components, multiple authors note the effectiveness of IPP. With reduction in injuries of 50-80% for those doing IPP, this makes ACL IPP more cost-effective than surgical treatment. The OA, Action Alliance is a multi-specialty group, which includes ACSM, has developed IPP best practice.

2958 Thomas Trojan, FACSM. Drexel College of Medicine, Philadelphia, PA. (No relationships reported)

2959 Lindsay DiStefano. University of Connecticut, Storrs, CT. (No relationships reported)

2960 Jeffrey Driban. Taft’s Medical Center, Boston, MA. (No relationships reported)

F-21 Tutorial Lecture - ACSM Certification and CAAHEP Accreditation: Moving The Profession Forward

Friday, June 2, 2017, 2:10 PM - 3:00 PM
Room: 406

As the exercise professions move forward, the importance of academic program accreditation as a requirement for certification has become apparent. As more interest is expressed by individual states to regulate the profession, having certified professionals graduating from accredited programs has become the most divisive stumbling block. This session will inform participants of the value of CAAHEP Accreditation, the impact of ACSM Certification and the necessary steps to apply for initial accreditation. Program Directors from accredited programs will be present for questions and discussion.

2961 William Simpson, FACSM. University of Wisconsin-Superior, Superior, WI. (No relationships reported)

2962 M. Allison Williams, FACSM. Mercy College, Dobbs Ferry, NY. (No relationships reported)

2963 Richard Cotton and Francis Neric. ACSM. Indianapolis, IN. (No relationships reported)

F-22 Clinical Workshop-Hands On Demonstration - Potential use of HIFT for Kids

Friday, June 2, 2017, 2:10 PM - 3:00 PM
Room: 501

Using a High Intensity Functional Training (HIFT) type program to create an engaging form of physical activity for grade school children to young adults.

2964 Victor Andrews. Kansas State University, Manhattan, KS. (No relationships reported)

F-23 Clinical Workshop-Hands On Demonstration - Sport Cardiology: 2017 – Common Issues and Management

Friday, June 2, 2017, 2:10 PM - 3:00 PM
Room: 504

Cardiovascular care of athletes and active patients is a rapidly evolving field. This proposed session will be designed to address the most common cardiovascular issues that athletes present with in clinical practice. The session will be geared to assist sports medicine practitioners with the assessment, diagnosis, and management of key issues,
F-24  Highlighted Symposium - Pathomechanics and Treatment of Osteoarthritis: Where Do We Go From Here?

Friday, June 2, 2017, 3:15 PM - 5:15 PM
Room: 201

An interdisciplinary group of researchers and clinicians will discuss our progress in studying osteoarthritis from within our individual disciplines as well as new discoveries being made at the intersections of biology and mechanics. Leaders in the field will also discuss larger-scale initiatives such as pragmatic clinical trials and inter-organizational collaborations that can continue to move osteoarthritis research forward.

F-26  Symposium - ACSM/AMSSM: CAQ Review Session (Part 2)

Friday, June 2, 2017, 3:15 PM - 5:15 PM
Room: 603

The CAQ review sessions are an ongoing series of symposia developed in conjunction with the American Medical Society for Sports Medicine and presented at both the ACSM and AMSSM Annual Meetings, presented by content experts, that are designed to provide, over several years, a comprehensive review for the Primary Care Sports Medicine CAQ exam.
Participation in Organized Sport Programs

Optimizing Female Youth Sport Participation: Bring Back the "Youth"

It is well known that youth sports participation in organized sports and physical activity is high. Withdrawal from youth sports and the lack of desire to continue a physically active lifestyle post play is a multifactorial issue, which appears worst in females. This tutorial lecture will highlight clinical cases and provide parental and coaching education that supports understanding what further testing or evaluation may be needed and what limitations (if any) to exercise participation are advised. This section will provide background information on both common and uncommon congenital heart disease in terms of exercise, sports, and physical activity and provide guidance to health care providers that will assist with exercise prescription for children, adults, competitive athletes, and those who wish to engage in recreational sports and physical activity.

Chair: Carol Ewing Garber, FACSM, Teachers College, Columbia University, New York, NY.

(No relationships reported)

3:15 PM - 3:25 PM

Common Congenital Heart Diseases

Keri Shaler, Boston Children’s Hospital, Brigham and Women’s Hospital, Boston, MA.

(No relationships reported)

3:25 PM - 3:55 PM

Less Common Congenital Heart Disease and Abnormalities Associated with Sudden Cardiac Death

Silvana Molossi, Texas Children’s Hospital, Baylor College of Medicine, Houston, TX.

(No relationships reported)

3:55 PM - 4:25 PM

The Use of 12-Lead ECG and the New International Criteria: What you Should Know

Kimberly G. Harmon, FACSM, University of Washington, Seattle, WA.

(No relationships reported)

4:25 PM - 4:55 PM

Overall Discussion

Symposium - Optimal Female Youth Sport Participation: Bringing Back the "Youth"

Friday, June 2, 2017, 3:15 PM - 5:15 PM

Room: 406

It is well known that the dropout rate of youth sports is high. Withdrawal from youth sports and the lack of desire to continue a physically active lifestyle post play is a multi-factorial issue, which appears worst in females. This tutorial lecture will highlight clinical cases and provide parental and coaching education that supports and encourages extended play. Emphasis will be placed on adolescent females and ethnically diverse populations.

Chair: Alicia Bryan, FACSM, Columbus State University, Columbus, GA.

(No relationships reported)

3:15 PM - 3:20 PM

I’d Rather Not – I Might Get Hurt: The Impact of Musculoskeletal Injuries on Return to Play

Alex Ortiz, FACSM, Texas Women’s University, Houston, TX.

(No relationships reported)

3:20 PM - 3:45 PM

Overall Discussion

Symposium - Exercise, Sports, and Physical Activity Prescription in Children and Adults with Common and Uncommon Congenital Heart Disease

Friday, June 2, 2017, 3:15 PM - 5:15 PM

Room: 607

This is a collaborative submission as part of an MOU between ACSM and the ACC Sports and Exercise Cardiology Section. Many internists, pediatricians, family medicine, and cardiology are referred patients who have common congenital heart disease (e.g., bicuspid aortic valve, coarctation of the aorta, patent foramen ovale) which may or may not have been repaired. It is important for the provider to understand what further testing or evaluation may be needed and what limitations (if any) to exercise participation are advised. This section will provide background information on both common and uncommon congenital heart disease in terms of exercise, sports, and physical activity and provide guidance to health care providers that will assist with exercise prescription for children, adults, competitive athletes, and those who wish to engage in recreational sports and physical activity.

Chair: Paul J. Fadel, FACSM, University of Texas at Arlington, Arlington, TX.

(No relationships reported)

3:15 PM - 3:20 PM

Encouraging Diversity in Youth Sport through Supportive Parenting and Coaching

Jamie Clark, Oklahoma State University, Stillwater, OK.

(No relationships reported)

3:45 PM - 4:10 PM

My Needs, My Motivations: Facilitators that Enhance Participation in Organized Sport Programs

Alicia Bryan, FACSM, Columbus State University, Columbus, GA.

(No relationships reported)

4:10 PM - 4:35 PM

Optimizing Female Youth Sport Participation: Bring Back the “Youth”

Julio Morales, Lamar University, Beaumont, TX.

(No relationships reported)

4:35 PM - 5:00 PM

Overall Discussion

Symposium - Physiological Impact of Inactivity and Prolonged Sitting: Implications for Cardiovascular Health

Friday, June 2, 2017, 3:15 PM - 5:15 PM

Room: Belco Theatre 1

Lack of sufficient daily physical activity has emerged as a primary cause of chronic disease. Historical records dating back to 1940’s provide evidence supporting sedentary living and lack of physical activity can impair human health. Our understanding has advanced more recently, and demonstrate that short-term changes in activity, and even single bouts of prolonged sitting can negatively impact cardiovascular health. This symposium will provide a historical account of inactivity research relating to increased cardiovascular risk, then transition to highlight recent work examining physiological impacts of prolonged sitting and short-term reductions in activity on cardiovascular health in a variety of populations.

Chair: Paul J. Fadel, FACSM, University of Texas at Arlington, Arlington, TX.

(No relationships reported)

3:15 PM - 3:20 PM

Impact of Short-term Reductions in Physical Activity on Cardio-metabollic Health

Leryn J. Reynolds, University of Kentucky, Lexington, KY.

(No relationships reported)

3:20 PM - 3:40 PM

Prolonged Sitting and Increased Cardiovascular Risk

Jaume Padilla, University of Missouri, Columbia, MO.

(No relationships reported)

3:40 PM - 4:10 PM

Sex Differences in Physiological Response to Inactivity

Jennifer R. Vranish, University of Texas at Arlington, Arlington, TX.

(No relationships reported)

4:10 PM - 4:30 PM

Central Cardiovascular Concerns Related to Inactivity: Implications for Spinal Cord Injury

Daniel P. Credeur, University of Southern Mississippi, Hattiesburg, MS.

(No relationships reported)

4:30 PM - 5:00 PM

Overall Discussion
3003 Chair: Kelly L. Pritchett. Central Washington University, Ellensburg, WA. (No relationships reported)

3004 Board #1 3:15 PM - 5:15 PM
Comparison Of High And Low 25(OH)-Vitamin D Concentrations On Recovery From Resistance Exercise In Men
Leonardo P. Oliveira1, Sandro Bartolomei1, Eliabu Sadres1, David Church1, Eliott Arroyo1, Joseph A. Gordon, III2, Alyssa N. Varanoske1, Ran Wang1, Kyle S. Beyer1, Jeffrey R. Stout, FACSMM, John A. Rathmacher2, Jay R. Hoffman, FACSMM.1:University of Central Florida, Orlando, FL.2:Metabolic Technologies, Inc., Ames, IA. (Sponsor: Jay Hoffman, FACSMM)
Email: loliveira@bsd.uchicago.edu (No relationships reported)

3005 Board #2 3:15 PM - 5:15 PM
Exploring the Relationship between Soluble Fiber Intake and Bone Mineral Density in Athletes
Anneliese M. Kuenmerle1, Jody L. Herman1, Emily N. Werner, FACSMM; Jacqui Van Groun1, Rachel C. Kelley2, Francesco Alessio3, Michael L. Bruneau, 19102, Stella L. Volpe, 19102, FACSMM, 1:Drexel University, Philadelphia, PA. 2:University of Florida, Gainesville, FL. (Sponsor: Stella Lucia Volpe, FACSMM)
Email: amk464@drexel.edu (No relationships reported)

3006 Board #3 3:15 PM - 5:15 PM
Validation Of A Two-item Food Security Screening Tool For Male, Collegiate Athletes
David H. Holben, Kacie Pol, Melinda Valliant, Hyun-Woo (David) Young. University of Mississippi, University, MS. (Sponsor: Mark Loftin, FACSMM)
Email: (No relationships reported)

3007 Board #4 3:15 PM - 5:15 PM
The Relationship Between In-Race Nutrition and Finish Time for Ironman Triathletes
Lauren Sutton, Elaina Biechler, Stephanie Harpenau. Loras College, Dubuque, IA. (Sponsor: Vincent Paolone, FACSMM)
Email: lauren.sutton@loras.edu (No relationships reported)

3008 Board #5 3:15 PM - 5:15 PM
Weight Cutting And Professional Mixed-martial Artists: How Do They Cut Weight And Who Is Advising Them? Michelle K. Alencar, David Bautista, John Sassone, Dustin Durke, Leilani Madrigal, Alison Ede. CSU-Long Beach, Long Beach, CA. Email: michelle.alencar@csulb.edu (No relationships reported)

3009 Board #6 3:15 PM - 5:15 PM
Nutrition Goals Prioritized By Elite Endurance Runners Undergoing A Nutrition Education Intervention
Michelle Barrack1, Michael Frederieson, FACSMM; Tenforde S. Adam1, Emily Kraus1, Brian Kim2, Sonal Singh1, Andrea Kussman1, Kristen Gravani1, Yasi Ansari2, Beth Miller2, Aurelia Nativ1, FACSMM, 1:California State University, Long Beach, Long Beach, CA. 2:Stanford University, Palo Alto, CA. 3:Spaulding Rehabilitation Hospital, Cambridge, MA. 4:University of California Los Angeles, Los Angeles, CA. (Sponsor: Aurelia Nativ, FACSMM)
Email: michelle.barrack@csulb.edu (No relationships reported)

3010 Board #7 3:15 PM - 5:15 PM
Influence of a Nutrition Recovery Station Following Exercise on Acute Dietary Intake.
Ben Desbrow, 42221, Katelyn Barnes1, Gregory Cox2, Caroline Young1, Chris Irwin1. 1:Griffith University, Gold Coast, Australia. 2:St. Vincent University, Gold Coast, Australia. (Sponsor: Professor Louise Burke, FACSMM)
Email: b.desbrow@griffith.edu.au

www.acsm.org
F-32 Thematic Poster - Physical Activity and Mental Health

Friday, June 2, 2017, 3:15 PM - 5:15 PM
Room: 304

3011 Chair: Matthew P. Herring. University of Limerick, Limerick, Ireland.
(No relationships reported)

3012 Board #1 3:15 PM - 5:15 PM
Promoting Mental Among Urban Adolescents Through Physical Activity: Open-trial of Leaders@Play 2.0
Eduardo E. Bustamante1, Tara G. Mehta1, Angela L. Walden1, Hannah Munson1, Aneisha Dunmore1, Grace Cui1, Stacy L. Frazer1. 1University of Illinois at Chicago, Chicago, IL. 2Florida International University, Miami, FL.
Email: ebusta2@uic.edu
(No relationships reported)

3013 Board #2 3:15 PM - 5:15 PM
Is There A Shift In The Ideal Body in The Adolescents?
Christine Sundgot-Borgen1, Kethe Engen1, Elin Kolle1, Jonrun Sundgot-Borgen, FACSM1, Monica Klungland Torstveit1, Sofrid Bratland-Sand1. 1Norwegian School of Sport Sciences, Oslo, Norway. 2University of Agder, Kristiansund, Norway. 3University College of Southeast Norway. Bo Telemark, Norway. (Sponsor: Jim Skinner, FACSM)
Email: c.s.borgen@nih.no
(No relationships reported)

3014 Board #3 3:15 PM - 5:15 PM
Subjective and Physiological Predictors of Anxiety at Rest and During a Working Memory Task
Email: brookeleitner@gmail.com
(No relationships reported)

3015 Board #4 3:15 PM - 5:15 PM
Longitudinal Influence Of Prolonged And Short Bouts Of Sedentary Time On Mental Wellbeing
Laura D. Ellingson1, Jacob D. Meyer2, Robin P. Shook1, Steven N. Blair, FACSM1, 1Iowa State University, Ames, IA. 2University of Wisconsin–Madison, Madison, WI. 3Children’s Mercy Hospital, Kansas City, MO. 4University of South Carolina, Columbia, SC.
Email: ellingl@iastate.edu
(No relationships reported)

3016 Board #5 3:15 PM - 5:15 PM
Acute Moderate Exercise Improves Working Memory Efficiency In Humans
Email: abigail.hsing@nih.gov
(No relationships reported)

3017 Board #6 3:15 PM - 5:15 PM
Use of a Sit-Stand Desk Reduces Wake Time During the Subsequent Night’s Sleep
(Sponsor: John M. Jakicic, FACSM)
Email: chris.kline@pitt.edu

3018 Board #7 3:15 PM - 5:15 PM
Physical Activity As A Mediator Of Intervention Effects On Depression And Perceived Stress Among Latinas
Andrea S. Mendoza-Vasconez1, Shira Dunsiger1, Britta Larsen1, Bess H. Marcus1. 1UC San Diego/San Diego State University, San Diego, CA. 2Brown University, Providence, RI. 3UC San Diego, San Diego, CA.
Email: asm015@ucsd.edu
(No relationships reported)

3019 Board #8 3:15 PM - 5:15 PM
Psychological Antecedents and Consequences of Maximal Fitness Testing Among Firefighters
Email: katie.andrews@ul.ie
(No relationships reported)

F-33 Thematic Poster - Special Populations

Friday, June 2, 2017, 3:15 PM - 5:15 PM
Room: 403

3020 Chair: Geoffrey E. Moore, FACSM. Healthy Living & Exercise Medicine Associates, Ithaca, NY.
(No relationships reported)

3021 Board #1 3:15 PM - 5:15 PM
Assessment Of Cardiovascular Fitness In Wheelchair Rugby Athletes: Validation Of The 8-loop Field Test
Kristian O. Nielsen1, William J. Bond, IV1, Peter Henriksen1, Tina Junge2, Ulrik Frandsen1, Peter Aagaard1. 1University of Southern Denmark, Odense, Denmark. 2University College Lillebælt, Odense, Denmark.
Email: kristian.a.o.n@gmail.com
(No relationships reported)

3022 Board #2 3:15 PM - 5:15 PM
Physical Fitness And Cardiovascular Risk In People With Intellectual Disabilities
Diana Alexandra Camargo, Sr1, Marco Aurelio Rodriguez Mora2. 1Santo Tomas University; National University, Bogotá, Colombia. 2Santo Tomas University, Bogotá, Colombia.
Email: diana.camargo@usantotomas.edu.co
(No relationships reported)

3023 Board #3 3:15 PM - 5:15 PM
Relationship between Muscular Strength and Functional Balance in People Post-Stroke
Mayumi Wagatsuma, Taehoon Kim, Brenda Jeng, Cynthia Rhode, Hallie Bui, Keely Ahrold, Teri Todd, Taeyou Jung. California State University, Northridge, Northridge, CA.
(No relationships reported)

3024 Board #4 3:15 PM - 5:15 PM
Feasibility And Effectiveness Of High Intensity Exercise Training For High-Functioning Children With Autism Spectrum Disorder
(Sponsor: Frank J. Cerny, FACSM)
Email: kozlow13@canisius.edu
(No relationships reported)

3025 Board #5 3:15 PM - 5:15 PM
Assessment of Arm Crank and Wheelchair Treadmill Ergometry in Wheelchair Basketball Players
Ruediger Reer1, Ann-Kathrin Otto1, Jan Schroeder1, Serge P. von Duvillard, FACSM1, Klaus-Michael Braumann1. 1University of Hamburg, Hamburg, Germany. 2University of Salzburg, Salzburg, Austria.
Email: ruediger.reer@uni-hamburg.de
(No relationships reported)
F-34  Thematic Poster - Sports Injuries: Friend or Foe?

Friday, June 2, 2017, 3:15 PM - 5:15 PM
Room: 505

Board #6  3:15 PM - 5:15 PM
Is the Metabolic Cost of Running Different for Athletes with Unilateral Versus Bilateral Transtibial Amputations?
Owen N. Beck1, Alena M. Grabowski1. 1University of Colorado, Boulder, CO. 2Eastern Colorado Healthcare System, Denver, CO.
Email: owen.beck@colorado.edu
(No relationships reported)

Board #7  3:15 PM - 5:15 PM
Physiological Responses To A Simulated Half-marathon Road-race In Elite Wheelchair Racing Athletes
Jp Barfield1, Thomas Edwards2, Joseph W. Beals3, Grace M. Niemiro3, Elizabeth Broad3, Robert W. Motl4, Michael De Lisio5, Laura Newsome1, Nicholas A. Burd3, Lara A. Pilatti1. 1Radford University, Radford, VA. 2University of Illinois at Urbana-Champaign, Urbana, IL. 3U.S. Paralympics, Colorado Springs, CO. 4University of Alabama-Birmingham, Birmingham, AL. 5University of Ottawa, Ottawa, ON. (Sponsor: William Williford, FACSM)
Email: abarfield@radford.edu
(No relationships reported)

Board #8  3:15 PM - 5:15 PM
Reliability & Validity Of Aquatic Deep Water Peak VO2 Testing For Athletes With Spinal Cord Injury
William H. Scott1, Anna Ogonowska-Sladowknik1, Peter H. Gorman2, Robert Slodownik3, Paula R. Geigle1. 1University of Maryland School of Medicine, Baltimore, MD. 2University of Rochester, Rochester, NY. 3University of Rochester, Rochester, NY. Email: WilliamScott@radford.edu
(No relationships reported)

F-35  Free Communication/Slide - Physical Activity Intervention Trials

Friday, June 2, 2017, 3:15 PM - 5:00 PM
Room: 402

Board #5  3:15 PM - 5:15 PM
National Hockey League Players’ Concussion And Lower-Body Injury Risk Across the 2012-2015 Seasons
Kathryn L. O’Connor, Tara Bhargava, Andrew L. Lapointe, Steven P. Broglio, FACSM. University of Michigan, Ann Arbor, MI.
(Sponsor: Steven P. Broglio, FACSM)
Email: kloconn@umich.edu
(No relationships reported)

Board #6  3:15 PM - 5:15 PM
Prediction of Injury among Elite Dancers: Three Years Of Prospective Surveillance
Mariejeanne Liederbach1, Evangélos Pappas2, Leigh Schanfein1, Beth Glace2. 1NYU Langone Medical Center Hospital for Joint Diseases, New York, NY. 2University of Sydney, Sydney, Australia.
Email: avinashc@gwmail.gwu.edu
(No relationships reported)

Board #7  3:15 PM - 5:15 PM
Injury in D III Volleyball Players is Associated with Preseason Jump and Hop Measures
Jason Brunitt1, Alma Mattocks3, Phil Lentz2, Jeremy Loew4. 1George Fox University, Newberg, OR. 2Spalding University, Louisville, KY. 3Pacific University, Forest Grove, OR. 4Lewis and Clark College, Portland, OR. (Sponsor: Mitchell J Rauh, FACSM)
Email: jrbrunitt@georgefox.edu
(No relationships reported)

Board #8  3:15 PM - 5:15 PM
The Injury and Illness Profile of 23055 Participants in a 94.7km Cycle Race - Cross-Sectional Study
Dina C. Janse van Rensburg, FACSM, Mia Breedt, Lizelle Fletcher, Catharina C. Grant, Audrey Jansen van Rensburg, Martin P. Schwennus, FACSM. University of Pretoria, Pretoria, South Africa.
Email: christa.jansevanrensburg@up.ac.za
(No relationships reported)
Effects of High-intensity Interval Training and Moderate-intensity Continuous Training on Sleep in Sedentary Obese Adults
Kirbie E. Huwai, Brandon J. Sawyer, Matthew P. Buman, FACSM, Glenn A. Gaesser, FACSM, 1 Point Loma Nazarene University, San Diego, CA. 2 Arizona State University, Phoenix, AZ. Email: kirbiehuwai331@pointloma.edu (No relationships reported)

Six Months of Aerobic Fitness Training on Daily Affect in High-Stressed Family Caregivers
Benjamin Hives, Jordan Weiss, Sanantha Schif, Adam Caplin, Elisa Epe, Kirsten Johansen, Eli Peterman, 1 University of British Columbia, Vancouver BC, BC, Canada. 2 University of Pennsylvania, Philadelphia, PA. 3 University of California - San Francisco, San Francisco, CA. Email: ben.hives@ubc.ca (No relationships reported)

Health In Pregnancy and Postpartum (HIPP): Targeting Gestational Weight Gain and Postpartum Weight Loss
Sara Wilcox, FACSM, Jihong Liu, Gabrielle Turner-McGrivney, Judith Burgis, Cheryl Addy, Ellen Wingard, Brandi Blackmon, Alicia A. Dahl, Lara Schneider. Email: swilcox@sc.edu (No relationships reported)

Effects of a Long-Term Physical Activity Program on Activity Patterns in Mobility Impaired Older Adults
Ann A. Wanigatunga, Robert S. Axtell, FACSM, Roger A. Fielding, Nancy W. Glyn, Abby C. King, FACSM, Mary M. McDermott, Catherine Tudor-Locke, FACSM, Marco Pahor, Todd Manini, FACSM, 1 University of Florida, Gainesville, FL. 2 Southern Connecticut State University, New Haven, CT. 3 Tufts University, Boston, MA. 4 University of Pittsburgh, Pittsburgh, PA. 5 Stanford University, Stanford, CA. 6 Northwestern University, Evanston, IL. 7 University of Massachusetts Amherst, Amherst, MA. (Sponsor: Todd M. Manini, FACSM) Email: asiri@ufl.edu (No relationships reported)

Effects of Supervised and Unsupervised Physical Activity Programs for Weight Loss
Seth A. Creasy, Renee J. Rogers, Kelliann K. Davis, FACSM, Bethany Barone Gibbs, Erin E. Kershaw, Sara J. Kovacs, Meghan R. McGuire, John M. Jakicic, FACSM. Email: seth.creasy@ucdenver.edu (No relationships reported)

Isocaloric Two-intensity Intermittent Exercise Blunts Detection, Leptin Response, and Dietary Compensation In Obese Women
Katarina T. Rorer, Lizbeth C. Wuorinen, 1 University of Michigan, Ann Arbor, MI. 2 Northern Michigan University, Marquette, MI. Email: katarina@umich.edu (No relationships reported)

Effects Of Steady-state And High-intensity Exercise On Compensatory Eating Behavior
Emily J. Sauers, Jonathan P. Klein, Chad A. Wittmer, Gavin L. Moir, Shala E. Davis, East Stroudsburg University, East Stroudsburg, PA. (Sponsor: Shala Davis, FACSM) Email: esauers@esu.edu (No relationships reported)

Aerobic Exercise Training Increases Dietary Restraint and Reduces Hunger and Energy Intake in Overweight/Obese Adults
Tanya M. Halliday, Kristina T. Leggett, Allison K. Hild, Jason R. Tregellas, Edward L. Melanson, FACSM, Marc A. Cornier. University of Colorado Anschutz Medical Campus, Aurora, CO. Email: tanyamhalliday@gmail.com (No relationships reported)

Diet plus Varying Doses of Physical Activity on Weight Loss: The Heart Health Study
Renee J. Rogers, Meghan R. McGuire, John M. Jakicic, FACSM. University of Pittsburgh, Pittsburgh, PA. (Sponsor: John M. Jakicic, FACSM) Email: r.j.rogers@pitt.edu Reported Relationships: R.J. Rogers: Contracted Research - Including Principle Investigator; Weight Watchers International, Inc.

Metabolic Flexibility Among Women In Response To A Single High Fat Meal.
Alyssa Olenick, Regis Pearson, Nuhu Shaker, Rachel Tinuis, Maire Blankenship, Evie Oregon, Don Hoover, Jill Maples. Western Kentucky University, Bowling Green, KY. (Sponsor: Dr. James Green, FACSM) (No relationships reported)

Free Communication/Slide - Weight Management
Friday, June 2, 2017, 3:15 PM - 4:45 PM
Room: 103

Chair: Kathleen Woolf, FACSM. New York University, New York, NY. (No relationships reported)
3058  3:15 PM - 3:35 PM
Episodes Of Near-syncope In A Runner
Darrick D. Van1, Thomas G. Allison2, Michael S. Emery3. 1Indiana University Health, Indianapolis, IN. 2Mayo Clinic, Rochester, MN. 3Indiana University School of Medicine, Indianapolis, IN.
Email: dvan@iuhealth.org
(No relationships reported)

3059  3:35 PM - 3:55 PM
Chronic Dyspnea - Running
Jack Nickless, Anthony Romeo. Midwest Orthopaedics at Rush, Chicago, IL.
(No relationships reported)

3060  3:55 PM - 4:15 PM
Thirteen-year-old Female Football Player With Shortness Of Breath
Mark R. Johnson. SIU SOM, Springfield, IL.
(No relationships reported)

3061  4:15 PM - 4:35 PM
Right Upper Quadrant Pain In a Soccer Player
Jason T. Losee. Evergreen Sports Medicine Fellowship, Augusta, ME. (Sponsor: James Dunlap M.D., FACSM)
Email: thomaslosee@msn.com
(No relationships reported)

3062  4:35 PM - 4:55 PM
Splenic Injury - Football
Email: jennykimmd@gmail.com
(No relationships reported)

3063  4:55 PM - 5:15 PM
Blunt Abdominal Trauma at Pre-season Scrimmage
Brian J. Schutzbuch1, Mark Lavallee, FACSM2. 1Greenville Health System, Greenville, SC. 2Wellspring Health, York, PA. (Sponsor: Mark Lavallee M.D., FACSM)
Email: brian.j.schutzbuch@gmail.com
(No relationships reported)

F-38  Clinical Case Slide - Shoulder II
Friday, June 2, 2017, 3:15 PM - 5:15 PM
Room: 401

3064  Chair: Jason L. Zaremski, FACSM. University of Florida, Gainesville, FL.
(No relationships reported)

3065  Discussant: Ramsey Shehab. Henry Ford, Detroit, MI.
(No relationships reported)

3066  Discussant: Shawn F. Kane, FACSM. U.S. Army, Carthage, NC.
(No relationships reported)

3067  3:15 PM - 3:35 PM
Weakness In Shoulder After A Football Collision
Timothy Gill, Kevin Duprey. Crozer-Keystone Health System, Springfield, PA. (Sponsor: Thomas Kaminski, FACSM)
(No relationships reported)

3068  3:35 PM - 3:55 PM
A New Frontier for the Medial Clavicle
Sam Hwu1, Garry W.K. Ho, FACSM2. 1Sports Medicine Fellowship Program, Virginia Commonwealth University - Fairfax Family Practice, Fairfax, VA. 2OrthoVirginia, Fairfax, VA.
Email: sam.hwu@gmail.com
(No relationships reported)

3069  3:55 PM - 4:15 PM
Shoulder Injury - Ground Level Fall
Kevin M. Mullins, Brian A. Davis, FACSM. University of California, Davis, Sacramento, CA.
Email: kevmullins@ucdavis.edu
(No relationships reported)

3070  4:15 PM - 4:35 PM
Shoulder Pain in a Professional Contemporary Ballet Dancer
Brennan Boettcher, Jonathan Finnoff, FACSM. Mayo Clinic, Rochester, MN. (Sponsor: Jonathan Finnoff, FACSM)
Email: boettcher.brennan@mayo.edu
(No relationships reported)

3071  4:35 PM - 4:55 PM
Return to Kipping After Shoulder Injury: Introducing a Novel Unloading Rehabilitation Technique
Kevin Messey1, Sarah Mahasin2, David Bazzo1, Kenneth Vitale3. 1University of California San Diego, San Diego, CA. 3King Saud University, Riyadh, Saudi Arabia.
(No relationships reported)

3072  4:55 PM - 5:15 PM
An Atypical Cause of Shoulder Pain in a Male Ballet Dancer
Mark Bender, David Leffers, Sean Spence. University of South Florida, Tampa, FL.
Email: markbender@health.usf.edu
(No relationships reported)

F-39  Exchange Lecture - American Psychological Association Exchange Lecture: Ethical Practice in a Diverse World: The Challenges of Sports Professionals Working with Differences and the Psychological Consequences for NCAA College Student-Athletes
Friday, June 2, 2017, 3:15 PM - 4:05 PM
Room: 104

3073  Michael L. Sachs. Temple University, Philadelphia, PA.
(No relationships reported)

Friday, June 2, 2017, 3:15 PM - 4:05 PM
Room: 110

3074  Darin A. Padua. University of North Carolina at Chapel Hill, Chapel Hill, NC.
(No relationships reported)

F-41  Tutorial Lecture - ActivEarth: Design and Health in the Public Realm
Friday, June 2, 2017, 3:15 PM - 4:05 PM
Room: 302

For years, public health professionals have been engaged in encouraging people to enjoy physical activity as part of their everyday lifestyles. And for more than a century, landscape architects have been creating outdoor environments for people to enjoy—from National Parks to urban boulevards to neighborhood parks and backyard gardens. In the last decade these two disciplines have collaborated in creating great urban outdoor spaces that draw people into active lifestyles with intention. This session will explore how public health professionals, landscape architects, urban designers and transportation officials create seductive places and compelling opportunities for people to live active lives.

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<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time and Date</th>
<th>Room</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-42</td>
<td>Tutorial Lecture - CDC’s Vision for Increasing Physical Activity Across the Nation: Looking Behind the Curtain</td>
<td>Friday, June 2, 2017, 3:15 PM - 4:05 PM</td>
<td>305</td>
<td>Janet Fulton, FACSM. CDC, Division of Nutrition, Physical Activity, and Obesity, Atlanta, GA. (No relationships reported)</td>
</tr>
<tr>
<td>F-43</td>
<td>Clinical Workshop-Hands On Demonstration - How are your DXA Skills? Common Pitfalls of DXA Interpretation in Young Athletes</td>
<td>Friday, June 2, 2017, 3:15 PM - 4:05 PM</td>
<td>504</td>
<td>Suzanne S. Hecht, FACSM. University of Minnesota Sports Medicine, Minneapolis, MN. (No relationships reported)</td>
</tr>
<tr>
<td>F-44</td>
<td>Clinical Workshop-Hands On Demonstration - Lower Extremity Examamara</td>
<td>Friday, June 2, 2017, 3:15 PM - 4:05 PM</td>
<td>504</td>
<td>Mark R. Hutchinson, FACSM. University of Illinois at Chicago, Chicago, IL. (No relationships reported)</td>
</tr>
<tr>
<td>F-45</td>
<td>Tutorial Lecture - Health-related Quality of Life: An Outcome Measure in Cardiac Rehabilitation</td>
<td>Friday, June 2, 2017, 4:25 PM - 5:15 PM</td>
<td>110</td>
<td>Neil Oldridge, FACSM. University of Wisconsin-Milwaukee, Milwaukee, WI. (No relationships reported)</td>
</tr>
<tr>
<td>F-46</td>
<td>Colloquium - Thank You, Professor! Creating Engaging Pedagogy for Enhanced Student Learning of Exercise Physiology</td>
<td>Friday, June 2, 2017, 4:25 PM - 5:15 PM</td>
<td>104</td>
<td>Tamerah Hunt, FACSM. Georgia Southern University, Statesboro, GA. (No relationships reported)</td>
</tr>
</tbody>
</table>

This session will inform the ACSM membership about CDC’s vision to increase physical activity across the nation. Presenters will describe the public health research and programmatic activities occurring at the CDC to increase physical activity in U.S. states and communities.

Developing and creating appropriate learning environments creates challenges for professors to engage every student to enhance learning. This presentation will introduce the audience members to specific engaged pedagogies that will enhance the learning and understanding of Exercise Physiology for undergraduate students. The research conducted on engaged pedagogies targets student-student interaction and instructor-student facilitation. The presentation will focus on creating interactive lectures, utilizing appropriate technology and facilitating with discussion. This specific type of pedagogy is essential for higher student learning that will result in in-depth knowledge of the material and enhanced critical thinking to make better life long achievers.

Improving health-related quality of life is considered a cardiac rehabilitation objective by national cardiac rehabilitation associations. As an outcome measure, there are a number of instruments available to assess and evaluate health-related quality of life in patients with coronary heart disease. The evidence for the impact of cardiac rehabilitation on health-related quality of life will be discussed. The availability and potential use of recently developed health-related quality of life instruments in cardiac rehabilitation will be discussed.

Upper extremity examamara is a case-based, small group session targeting sharing and optimizing physical exam skills of the upper extremity. Each small group will be led by an associate faculty member.
### F-52  Free Communication/Poster - Activity Interventions and Programming in Youth

**Friday, June 2, 2017, 1:00 PM - 6:00 PM**<br>**Room: Hall F**

<table>
<thead>
<tr>
<th>Board</th>
<th>Title</th>
<th>Time</th>
<th>Room: Hall F</th>
<th>Speaker(s) and Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3107</td>
<td>Board #12</td>
<td>3:30 PM - 5:00 PM</td>
<td>Improvements in Family Nutrition and Physical Activity during FitKids360: Associations with Adiposity Changes&lt;br&gt;Kim Delafuente1, Jared Tucker2, Kathy Howard3, Jill Grayhill4, Gregory Welt, FACSM4, 1Spectrum Health, Grand Rapids, MI, 2Forest Hills Pediatrics, Grand Rapids, MI, 3Iowa State University, Ames, IA. (Sponsor: Gregory Welt, FACSM) Email: <a href="mailto:kimberly.delafuente@spectrumhealth.org">kimberly.delafuente@spectrumhealth.org</a></td>
<td>(No relationships reported)</td>
</tr>
<tr>
<td>3108</td>
<td>Board #13</td>
<td>3:30 PM - 5:00 PM</td>
<td>The Experimental Effect Of Parental Attentiveness On Children’s Physical Activity&lt;br&gt;Michael J. Rebold1, Cody Croll2, Emily Cumberledge2, Melanie Half1, Lindsey Raumikaitis2, 1Hiram College, Hiram, OH, 2Bloomsburg University of Pennsylvania, Bloomsburg, PA. Email: <a href="mailto:reboldmike@gmail.com">reboldmike@gmail.com</a></td>
<td>(No relationships reported)</td>
</tr>
<tr>
<td>3109</td>
<td>Board #14</td>
<td>3:30 PM - 5:00 PM</td>
<td>Evaluation of a Teacher-Led Physical Activity Intervention in Preschool Children&lt;br&gt;Connie Tompkins, Lori E. Meyer, Erin K. Shoulberg, Anna Pirog, Caroline Martin, Betsy Hoza, University of Vermont, Burlington, VT. Email: <a href="mailto:Connie.Tompkins@uvm.edu">Connie.Tompkins@uvm.edu</a></td>
<td>(No relationships reported)</td>
</tr>
<tr>
<td>3110</td>
<td>Board #15</td>
<td>3:30 PM - 5:00 PM</td>
<td>Effectiveness Of A Low-cost Exercise Intervention For Pediatric Obesity&lt;br&gt;Andrea M. Jacobo, Ryan G. Moran, Dana Kimberley, E Thomaseo Burton, Webb A. Smith, University of Tennessee, Memphis, TN. Email: <a href="mailto:jacobo.andrea@gmail.com">jacobo.andrea@gmail.com</a></td>
<td>(No relationships reported)</td>
</tr>
<tr>
<td>3111</td>
<td>Board #16</td>
<td>3:30 PM - 5:00 PM</td>
<td>Effects Of 5-week Summer School Program On Inflammatory Markers And Oxidative Stress In Female Adolescents&lt;br&gt;Myung Dong Choi1, Kyung Shin Park2, 1Oakland University, Rochester, MI, 2Texas A&amp;M International University, Laredo, TX. Email: <a href="mailto:choi@oakland.edu">choi@oakland.edu</a></td>
<td>(No relationships reported)</td>
</tr>
</tbody>
</table>
Establishing Classification Criteria for an Energy Balance Knowledge Test for Fourth and Fifth Grade Children
Yang Liu, Senlin Chen. Iowa State University, Ames, IA. 
Email: yliu1@iastate.edu  
(No relationships reported)

Board #26 3:30 PM - 5:00 PM
Playground And Garden Activity Levels In Young Children
Ashlyn Schwartz, Robyn Brookshire, Dawn Coe, FACSM. University of Tennessee, Knoxville, TN. 
Email: ashlyschwartz1993@gmail.com  
(No relationships reported)

Board #27 3:30 PM - 5:00 PM
Physiological Change During a 13-Week Aerobic Dance Class Among College Age Women
Stephanie M. Otto. Gustavus Adolphus College, St. Peter, MN. (Sponsor: Robert Pettitt, FACSM) 
Email: sotto@gustavus.edu  
(No relationships reported)

Board #28 3:30 PM - 5:00 PM
Effects of Hypoxic/Altitude Training on Bone Health in Obese Adolescents under Weight Loss
Lianshi Feng, Huan Gao, Li Zhang, Jianfang Xu, Yingli Lu. China Institute of Sport Science, Beijing, China. (Sponsor: Tongjian You, FACSM) Email: fengls98@126.com  
(No relationships reported)

Board #29 3:30 PM - 5:00 PM
A New Racket Sport That Provokes Similar Heart Rate As Soccer And Basketball In Children
Juan C. Colado1, Alvaro Juesas1, Fatima Campaña1, Faccio Giulia1, Alejandro Bruñó2, Juan F. Lisón2, Rosa M. Baños2, Victor Tella2, Michael E. Rogers, FACSM1. 1: University of Valencia, Valencia, Spain. 2: Cardenal Herrera University, Valencia, Spain. 3: Wichita State University, Wichita, KS. (Sponsor: Michael E. Rogers, FACSM) Email: Juan.Colado@uv.es  
(No relationships reported)

Board #30 3:30 PM - 5:00 PM
Can a Parental Modeling Physical Activity Intervention Improve Physical Activity and Body Composition in Adults and Young Children
Katrina D. DuBose, FACSM, Deirdre Diugonski, Kelli Soos. East Carolina University, Greenville, NC. Email: dubosek@ecu.edu  
(No relationships reported)

Board #31 3:30 PM - 5:00 PM
The Effects of Different Exercise on Chronic Inflammatory Markers in Obese Youth
XU JIANFANG, ZHANG LI, FENG LIANSHI, LU YINGLI. CHINA INSTITUTE OF SPORT SCIENCE, BEIJING, China. 
Email: xujianfang@cis.cn  
(No relationships reported)

Board #32 3:30 PM - 5:00 PM
School Based Pedometer Intervention: Are Standard Reporting Protocols Masking Potential Benefits In Previously Inactive Subpopulations?
Jade L. Morris1, Andy Daly-Smith2, Margaret A. Defeyter2, Jim McKenna2, Steven Zvolinski3, Melissa Fothergill1, Pamela L. Graham1, Scott Lloyd1. 1: Leeds Beckett University, Leeds, United Kingdom. 2: Northumbria University, Newcastle upon Tyne, United Kingdom. 3: Redcar & Cleveland Borough Council, Redcar, United Kingdom. Email: jade.morris@leedsbeckett.ac.uk  
(No relationships reported)
Board #42  3:30 PM - 5:00 PM
Family Factors Associated With Physical Activity and Sedentary Time in Children Living in Puerto Rico
Mario A. Muñoz1, Scott E. Crouser, FACSM1. 1University of Massachusetts Boston, Boston, MA. 2University of Tennessee, Knoxville, TN. Email: mario.munoz@umb.edu  
(No relationships reported)

Board #43  3:30 PM - 5:00 PM
Physical Activity Level Increased Follow Up Health Educational Program In Overweight And Obese Children: Pilot Study
Juliane B. Rauber1, Henrique Lima Ribeiro1, Alcyane Marino2, Bibiano Madrid1, Joyce Bonfim Vicente1, Carmen Silvia Grubert Campbell1. 1Universidade Católica de Brasília, Brasília, Brazil. 2Universidade do Estado de Santa Catarina (UDESC), Santa Catarina, Brazil. 3Universidade Paulista (UNIP, Brasilia, Brazil.  
(No relationships reported)

Board #44  3:30 PM - 5:00 PM
Feasibility and Acceptability of Implementing Physical Activity Programs at a Residential Center for High-Risk Youth
Kari J. Hyslop (Hilgendorf)1, Judy Knuth2. 1Western Washington University, Bellingham, WA. 2Washington State University, Spokane, WA.  
(No relationships reported)

Board #45  3:30 PM - 5:00 PM
Examining The Relationship Between High School Physical Education With Current Fitness Outcomes In College Students
Melissa Bopp, FACSM, Zack Papalia, Christopher M. Bopp, Allison Burner, Alison Weimer. Pennsylvania State University, University Park, PA. Email: mjbb73@psu.edu  
(No relationships reported)

Board #46  3:30 PM - 5:00 PM
Sport And Physical Activity Lesson Participation And Health-related Variables In Low-income Youth
Jeanette Rac1, Karin A. Pfeiffer, FACSM1, Kimberly A. Clevenger2, James M. Pirvannik, FACSM1, Sandra Sellers3. 1Michigan State University, East Lansing, MI. 2Crim Fitness Foundation, Flint, MI. (Sponsor: Dr. Karin A Pfeiffer, FACSM)  
(No relationships reported)

Board #47  3:30 PM - 5:00 PM
The Effects of Different Types of Exercise on Chinese College Students’ Energy Expenditure
Nan Zeng1, Xianxiang Li1, Huimin Yang1, Wenfeng Liu1, Hui Xiong1, Yanting Chen2, Jiao Li2, Wei He2, Zan Gao, FACSM1. 1University of Minnesota, Minneapolis, MN. 2Human Normal University, Changsha, China. (Sponsor: Zan Gao, FACSM) Email: zengxi185@umn.edu  
(No relationships reported)

Board #48  3:30 PM - 5:00 PM
Physical Activity Self-efficacy As A Predictor Of Achieving MVPA Guidelines In University Students
Jamie Faro1, Jessica Whiteley1, Laura L. Hayman1, Samuel J. Simmens2, Melissa Napolitano1. 1University of Massachusetts Boston, Boston, MA. 2The George Washington University, Washington, DC. Email: Jamie.faro001@gmu.edu  
(No relationships reported)

Board #49  3:30 PM - 5:00 PM
Household Support for Physical Activity in Adolescent Girls Recruited from Lower SES Neighborhoods
Kristie Rupp1, Sharon E. Taverno Ross2, Tiffany L. Gary-Webb2, Thomas Akiva2, John M. Jakicic, FACSM1. 1Brooklyn College, Brooklyn, NY. 2University of Pittsburgh, Pittsburgh, PA. (Sponsor: John M. Jakicic, FACSM) Email: Kristie.Rupp@brooklyn.cuny.edu  
(No relationships reported)

Board #50  3:30 PM - 5:00 PM
Girl Scout Troop Meeting Time-segmented Patterns Of Physical Activity Driven By Task.
Chelesey R. Schlechter1, Richard R. Rosenkranz, FACSM1, David A. Dwizaltowski2. 1Kansas State University, Manhattan, KS. 2University of Nebraska Medical Center, Omaha, NE. (Sponsor: Richard R. Rosenkranz, FACSM) Email: chelesey.schlechter@ksu.edu  
(No relationships reported)

Board #51  3:30 PM - 5:00 PM
Parental Support for Physical Activity and Sedentary Behavior among Chinese Schoolchildren
Yang Liu, Juan Tang, Zhen-Bo Cao, Jie Zhuang, Zheng Zhu. Shanghai University of Sport, Shanghai, China. Email: docliuyang@hotmail.com  
(No relationships reported)

Board #52  3:30 PM - 5:00 PM
Effects Of School-based Intervention Program Of Exercise And Nutritional Counseling On Metabolic Markers (Ghrelin, Leptin, Insulin) In School-aged Obese Adolescents from Monterrey México
Marco A. Enríquez-Martinez1, Oswaldo Ceballos-Guerrero2, Raúl Lomas-Acosta1, Armando Coce1, José Alberto Valadez-Lira2, Zyanya Diaz-Hirah2, Autonomous University of New Leon, Guadalupe, Zacatecas, Mexico. 2Autonomous University of New Leon, San Nicolás de los Garza, Nuevo León, Mexico. Email: mantoenmar4@hotmail.com  
(No relationships reported)

Board #53  3:30 PM - 5:00 PM
Patterns and Correlates of Sedentary Behaviour in Children Attending Child Care
Kelly R. Rice1, Stewart Trost2. 1Eastern Oregon University, La Grande, OR. 2Queensland University of Technology, South Brisbane, Australia.  
(No relationships reported)

Board #54  3:30 PM - 5:00 PM
Effects Of A School-based Exercising And Nutrition Counseling Intervention On Sleep Parameters (Sleep Time, Sleep Latency And Number Of Awakenings) And Time In MVP In School-aged Obese Adolescents From Monterrey méXico.
Osvaldo Ceballos-Guerrola, Marco A. Enríquez Martínez, Raúl Lomas-Acosta, Armando Cocca, José Valadez-Lira. UANL, Monterrey, Mexico. Email: osceguero@gmail.com  
(No relationships reported)

Board #55  3:30 PM - 5:00 PM
The Effect of Physical Activity on Attention in Elementary School Students
Elizabeth K. Bailey, Alyssa C. Lucas, Robert L. Harper, Stephen P. Bailey, FACSM, Elon University, Elon, NC. Email: ebailey@elon.edu  
(No relationships reported)

Board #56  3:30 PM - 5:00 PM
Effects Of A Sit-stand Desk In A College Class
Jeremy Frost1, Donna Terbizan, FACSM1. 1St. Cloud State University, St. Cloud, MN. 2North Dakota State University, Fargo, ND. (Sponsor: Dr. Donna Terbizan, FACSM)  
(No relationships reported)
| Board #57 | 3:30 PM - 5:00 PM | Percentage Of Time Spent In Physical Activity When Indoors Vs. Outdoors In Young Children
| Robert T. Marcotte1, David R. Bassett, Jr, FACSM, Jennifer I. Flynn2, Dawn P. Coe, FACSM 1, University of Tennessee, Knoxville, TN. 2Maryville College, Maryville, TN. Email: marcottc@vols.utk.edu | (No relationships reported) |
| Board #58 | 3:30 PM - 5:00 PM | Comparisons Of Heart Rate And Energy Expenditure Across Three Exergaming Consoles In College-age Adults
| Yoonsin Oh, Lora E. Johnson, Jesse R. Olson, Kaitlin R. Shea, Saori Braun, University of Wisconsin-Eau Claire, Eau Claire, WI. (Sponsor: Donald L. Bredle, FACSM) Email: yoonsin@uwec.edu | (No relationships reported) |
| Board #59 | 3:30 PM - 5:00 PM | Comparison of Accelerometer Step Counts and Total Physical Activity in 2-Year Old Child-Parent Dyads
| Marion Bakhouya, Aston K. McCullough, Carol Ewing Garber, FACSM, Teachers College, Columbia University, New York, NY. (Sponsor: Carol Garber, FACSM) Email: mb4169@tc.columbia.edu | (No relationships reported) |
| Board #60 | 3:30 PM - 5:00 PM | Discordance Between The Perceived And Actual Activity-supportive Built Environment Among College Students
| Dangai Sinns, Melissa Bopp, FACSM, Lauren Mazza, Zack Papalia, Christopher Bopp, Penn State University, University Park, PA. (Sponsor: Melissa Bopp, FACSM) | (No relationships reported) |
| Board #61 | 3:30 PM - 5:00 PM | Community Health and Fitness Programs for Children: Outcomes of the Fit Kids Program in Connecticut
| Wendy Bjerkew, Theresa Argondezzi, Kaitlin Latham, Tim Callahair. 1Sacred Heart University, Fairfield, CT. 2Norwalk Health Department, Norwalk, CT. (Sponsor: Peter Ronai, FACSM) Email: bjerkew@sacredheart.edu | (No relationships reported) |
| Board #62 | 3:30 PM - 5:00 PM | Associations among Objectively-determined Physical Activity, Cardiorespiratory Fitness and Cognitive Function in Preschool Children
| Jung Eun (June) Lee, Zachary C. Pope2, Nan Zeng1, Ying Zhang3, Zan Gao, FACSM1. 1University of Minnesota, Duluth, MN. 2University of Minnesota, Minneapolis, MN. 3Zhejiang Normal University, Hangzhou, China. (Sponsor: Zan Gao, FACSM) Email: jlee6924@umn.edu | (No relationships reported) |
| Board #63 | 3:30 PM - 5:00 PM | Effect Of Wu Qin Xi Exercise On Balance Function In College Students
| Yu Wang, Derun Gao, Ning Li, Chengdu Sport Institute, Chengdu, China. (Sponsor: Tongjian You, FACSM) Email: 626860728@qq.com | (No relationships reported) |
| Board #64 | 3:30 PM - 5:00 PM | Parental Support for Moderate and Vigorous Physical Activity In Children and Adiposity as a Mediator.
| Maria João Lagoa1, Michael Duncan2, Gustavo Silva1, Jorge Mota1, Luisa Aires2. 1Faculty of sport - University of Porto, Porto, Portugal. 2Coventry University, Coventry, United Kingdom. Email: mariajoaoalagoa@gmail.com | (No relationships reported) |
| Board #65 | 3:30 PM - 5:00 PM | Association Between Active Commuting To School And Sleep Duration In Ecuadorian Youth
| Emilio Villa-González1, Palma Challion2, Francisco Javier Huertas-Delgado1, Manuel Herrador-Colmenero2, Carlos Rodríguez-López2, Yaira Barranco-Ruíz1. 1National University of Chimborazo, Riobamba, Ecuador. 2University of Granada, Granada, Spain. Email: Tim.brusseau@utah.edu | (No relationships reported) |
| Board #66 | 3:30 PM - 5:00 PM | School Day Physical Activity and Classroom Behavior in Disadvantaged Children
| Timothy A. Brusseau, Ryan D. Burns. University of Utah, Salt Lake City, UT. Email: Tim.brusseau@utah.edu | (No relationships reported) |
| Board #67 | 3:30 PM - 5:00 PM | Parental Barriers And Active Commuting To School: An Association In Spanish Children And Adolescents
| Palma Challion1, Emilio Villa-González2, Manuel Herrador-Colmenero2, Francisco Javier Huertas-Delgado1. 1Facultad de Ciencias de la Actividad Física y el Deporte. Universidad de Granada., Granada, Spain. 2Facultad de Educación. Universidad de Almería, Almeria, Spain. 3Centro de Magisterio La Inmaculada. Universidad de Granada, Granada, Spain. Email: cecilia.romero@uca.ac.cr | (No relationships reported) |
| Board #68 | 3:30 PM - 5:00 PM | Building Resilience In Pre-adolescents, Through Physical & Artistic Recreation
| Cecilia E. Romero Barquero. Universidad de Costa Rica, San José, Costa Rica. Email: cecilia.romero@uca.ac.cr | (No relationships reported) |
| Board #69 | 3:30 PM - 5:00 PM | Are Parental Barriers Related To Youths’ Gender And Mode Of Commuting To School?
| Francisco Javier Huertas-Delgado1, Manuel Herrador-Colmenero2, Emilio Villa-González1, Maria Jesús Aranda-Balboa1, Maria Victoria Caceres1, Sandra Mandic1, Palma Challion2. 1Centro de Magisterio La Inmaculada. Universidad de Granada., Granada, Spain. 2Facultad de Ciencias de la Actividad Física y el Deporte. Universidad de Granada, Granada, Spain. 3School of Physical Education, Sport and Exercise Sciences. University of Otago, Dunedin, New Zealand. Email: fjhuertas@ugr.es | (No relationships reported) |
| Board #70 | 3:30 PM - 5:00 PM | Eating Behaviour Correlates In Children Referred to a Telehealth Program for Overweight and Obesity Treatment
| Anne M. Lasinsky1, Tanis V. Mihalynuk2, Darren ER Warburton1, Danika B. Dickson1, Donna Forsyth-Lukas2, Kiran Kalkat2, Genevieve Larivée2, Barbara Leslie2, Shannon SD Bredin1. 1University of British Columbia, Vancouver, BC, Canada. 2HealthLink BC, Burnaby, BC, Canada. 3The Physical Activity Line, Richmond, BC, Canada. Email: anne.lasinsky@ubc.ca | (No relationships reported) |
Board #71  2:00 PM - 3:30 PM  
Magnetic Resonance Imaging of Lower Extremity Muscle Sarcopenia in Breast Cancer Survivors: A Case-Control Study  
Adriana M. Coletta, Ann H. Klepp, David Fogelman, Yisheng Li, Naveen Garg, Karen Basen-Engquist. MD Anderson Cancer Center, Houston, TX.  
(No relationships reported)
| Board #85 | 2:00 PM - 3:30 PM | Effects of Exercise Training on Circulating Level of Sclerostin in Breast Cancer Survivors  
Tae Ho Kim, Jae Seung Chang, In Deok Kong, Yonsei Institute of Sports Science & Exercise Medicine, Yonsei University Wonju College of Medicine, Wonju, Korea, Republic of.  
Email: flygy1125@naver.com  
(No relationships reported) |
| Board #86 | 2:00 PM - 3:30 PM | Assessment of Heart Rate Variability After Maximal Exercise in Trained Postmenopausal Women  
Julia C. Orr, Elizabeth M. Hughes, Deepa G. Mistry, Antone H. Scala, University of San Francisco, San Francisco, CA.  
Email: jorr@usfca.edu  
(No relationships reported) |
| Board #87 | 2:00 PM - 3:30 PM | Effects of Submaximal Downhill Running on Plasma Cytokine Expression in Young, Endurance Trained Individuals  
Jennifer Macko, Ryan M. Sapp, Rian Q. Landers-Ramos, Jack T. Skelton, James M. Hagberg, University of Maryland, College Park, MD.  
Email: jmacko@termpmail.umd.edu  
(No relationships reported) |
| Board #88 | 2:00 PM - 3:30 PM | Similar Oxygen Consumption and Metabolic Cost of Thermo-Neutral and Hot Yoga.  
Rachel K. Nelson, Corinne N. Boyd, Stephanie M. Lannan, Ricardo Mora-Rodriguez, Micah N. Zuhl, Central Michigan University, Mount Pleasant, MI.  
University of Castilla-La Mancha, Toledo, Spain.  
(No relationships reported) |
| Board #89 | 2:00 PM - 3:30 PM | Different Types Of Stability Balls Impact On Heart Rate And VO2 Responses To Arm Ergometry  
Charles R.C. Marks, Michelle Nguyen, Oakland University, Rochester, MI. (Sponsor: Steven Keteyian, FACSM)  
Email: marks@oakland.edu  
(No relationships reported) |
| Board #90 | 2:00 PM - 3:30 PM | The Effect Of Exercise On Inter-arm Systolic Blood Pressure Difference  
Michael E. Holmstrup, Melanie M. Clarke, Cainin R. Connor, Yen-Kuan Lin, Brock T. Jensen, Slippery Rock University, Slippery Rock, PA.  
Taiwan Medical University, Taipei, Taiwan.  
(No relationships reported) |
| Board #91 | 2:00 PM - 3:30 PM | The Relationship Between Changes In Rmssd And Rectus Femoris Cross-sectional Area Following Exercise  
Thomas J. Kopec, Bailey A. Welborn, James E. Leeper, Elizabeth E. Hibberd, Phillip A. Bishop, Mark T. Richardson, Michael R. Esco, FACSM, The University of Alabama, Tuscaloosa, AL.  
Liberty University, Lynchburg, VA. (Sponsor: Michael R. Esco, FACSM)  
Email: kopec001@gmail.com  
(No relationships reported) |
### 3195 Board #100 2:00 PM - 3:30 PM
**The Age-related Decline In Vo2max: Role Of Peripheral Oxygen Transport And Utilization**
Jayson R. Gifford, Ashley D. Nelson, Joel D. Trinity, Ryan M. Broxterman, Gwenaen Layec, Joshua C. Weavil, Russell S. Richardson. University of Utah, Salt Lake City, UT. (No relationships reported)

### 3196 Board #101 2:00 PM - 3:30 PM
**Acute Effects of Elevation Training Mask on Heart Rate Variability in Healthy Subjects**
Hyun Chul Jung1, Nan Hee Lee2, Seun Jeon2, John D. Smith2, Michael Masperz2, Sukho Lee1. 1. University of Louisiana at Monroe, Monroe, LA. 2. Texas A&M University-San Antonio, San Antonio, TX. (Sponsor: Minsoo Kang, FACSM) (No relationships reported)

### 3197 Board #102 2:00 PM - 3:30 PM
**Effects Of Acute Aerobic Repetition Exercise On The Vascular Endothelial Function**
Yasuki Tamura1, Hajime Miura1, Kenichi Deguchi2, Yuji Hashimoto1, Miduki Ishikawa2, Ayako Azuma1. 1. Tokushima Univ., Tokushima, Japan. 2. Naruto Hosp., Tokushima, Japan. Email: rafx338@ybb.ne.jp (No relationships reported)

### 3198 Board #103 2:00 PM - 3:30 PM
**Burn Injury Reduces Cardiac Output and Stroke Volume During Submaximal Aerobic Exercise in Children**
Eric Rivas, Julianna M. Bores, David N. Herndon, Michael Kinsky, Oscar E. Suman, FACSM. The University of Texas Medical Branch and Shriners Hospitals for Children, Galveston, TX. (Sponsor: Oscar E. Suman, FACSM) Email: eririvas@utmb.edu (No relationships reported)

### 3199 Board #104 2:00 PM - 3:30 PM
**Microvascular and Nitric Oxide Responses to Acute Exercise with Resveratrol or Estradiol in Postmenopausal Women**
Cernal Ozemek, K Joseph Hurt, Rachael Bok, Teresa Witten, Kerry L. Hildreth, Kerrie L. Moreau. University of Colorado Anschutz Medical Campus, Denver, CO. Email: ozemek@uccs.edu (No relationships reported)

### 3200 Board #105 2:00 PM - 3:30 PM
**Performance Related Hemodynamic Responses to an Aerobic Exercise Across Different Stages of the Menstrual Cycle**
Patrick G. Murphy, 78520, Danny Dominguez, Brittany Esparza, L. Hildreth, Kerrie L. Moreau. University of Texas at Rio Grande Valley, Brownsville, TX. (No relationships reported)

### 3201 Board #106 2:00 PM - 3:30 PM
**Sex Differences in Acute Effect of Exercise on Endothelial Function in Older Adults**
Denetra D. Christou, Jeung-Ki Yoo, Michelle M. Pinto, Han-Kyu Kim, Chueh-Lung Hwang, Jees Lim, Eileen M. Handberg. University of Florida, Gainesville, FL. (No relationships reported)

### 3202 Board #107 2:00 PM - 3:30 PM
**The Acute Cardiorespiratory Responses to High versus Low Volume Interval Cycling Exercise in Healthy Adults**
Andrew Scott, Danielle Kidd, Jodic Lawson. University of Portsmouth, Portsmouth, United Kingdom. Email: andrew.scott@port.ac.uk (No relationships reported)

### 3203 Board #108 2:00 PM - 3:30 PM
**Acute Effects of Heated Water Based Exercise on Ambulatory Blood Pressure and Heart Rate Variability in Long Term Treated Elderly Hypertensive Patients**
Awarei Yuhinya Ngomane, Bianca Fernandes, Julia Lara Balbo, Emmanuel Gomes Ciolac. São Paulo State University – UNESP, BAURU, Brazil. Email: awasnyin@gmail.com (No relationships reported)

### 3204 Board #109 2:00 PM - 3:30 PM
**Effect of Acute Antioxidant Therapy on Cardiac Baroreflex Sensitivity in Young Healthy Men**
Brandi Y. Stephens, Jasdeep Kaur, Jennifer R. Vranish, Jordan C. Patik, R. Matthew Brothers, Paul J. Fadel, FACSM. University of Texas at Arlington, Arlington, TX. (Sponsor: Paul J. Fadel, FACSM) (No relationships reported)

### F-55 Free Communication/Poster - Clinically-related Exercise Responses
Friday, June 2, 2017, 1:00 PM - 6:00 PM

### Board #110 3:30 PM - 5:00 PM
**The Effect of Acute Aerobic Exercise on Hemostasis in Obstructive Sleep Apnea**
Ryan A. Martin, Gabrielle E. W. Giersch, Courtney L. Stronider, Christopher J. Womack, FACSM, Trent A. Hargens, FACSM. James Madison University, Harrisonburg, VA. Email: Ryan.Martin@rockets.utoledo.edu (No relationships reported)

### Board #111 3:30 PM - 5:00 PM
**Reliability of Pulse Waveform Separation Analysis Responses to an Orthostatic Challenge**
Andrew Borror, Claudio Battaglini, FACSM, Lee Stone. The University of North Carolina at Chapel Hill, Chapel Hill, NC. (Sponsor: Claudio Battaglini, FACSM) Email: aborror@live.unc.edu (No relationships reported)

### Board #112 3:30 PM - 5:00 PM
**Effect of Moderate Versus High Intensity Interval Exercise Training on Heart Rate Variability Parameters in Inactive Latin-American Adults: A Randomized Clinical Trial**
Luis Andrés Téllez1,2, Diana Camelo-Prieto3, Alejandra Tordecilla-Sanders3, Jorge E. Correa-Bautista2, Robinson Ramírez-Vélez1, Antonio García-Hernos4, Katherine Gonzalez-Ruiz2. 1. Centro de Estudios para la Medicación de la Actividad Física «CEMA». Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogotá D.C, Co, Bogotá D.C, Colombia. 2. Grupo GICAEDS, Facultad de Cultura Física, Deporte y Recreación, Universidad Santo Tomás, Bogotá D.C, Colombia. 3. Centro de Estudios para la Medicación de la Actividad Física «CEMA». Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogotá D.C, Co, Bogotá D.C, Colombia. 4. Laboratorio de Ciencias de la Actividad Física, el Deporte y la Salud, Universidad de Santiago de Chile, Santiago, Chile. Email: robin640@hotmail.com (No relationships reported)

### Board #113 3:30 PM - 5:00 PM
**Blood Pressure Cuff Selection: Does One Size Fit All?**
Brock T. Jensen, Maureen A. Walsh, Tyler A. Kuhn, Jessica A. McFadden, Taylor M. Weeter, Michael E. Holinstrup. Slippery Rock University, Slippery Rock, PA. Email: brock.jensen@sr.edu (No relationships reported)
American College of Sports Medicine

3209 Board #114 3:30 PM - 5:00 PM
Whole Body Vibration Training To Prevent Weight Gain In College Students: Early Findings From A Randomized Controlled Trial.
Mary E. Medisky1, Lauren Bungamer1, Gianni Maddalozzo, FACSM2, Kerri M. Winters-Stone, FACSM3. 1Oregon Health and Science University, Portland, OR. 2Oregon State University, Corvallis, OR. 3Oregon Health and Science University, Portland, OR. (Sponsor: Kerri Winters-Stone, FACSM)

3210 Board #115 3:30 PM - 5:00 PM
Iron Homeostasis In Elite Athletes and Ultramarathon Runners
Katerina P. Skenderi1, George Papanikolakou1, Tzortzis Nomikos2, Yannis Kotsis1, Maria Tsirou2. 1Harokopio University, Athens, Greece. 2University of Peloponese, Sparta, Greece.
Email: kskeri@hua.gr
(No relationships reported)

3211 Board #116 3:30 PM - 5:00 PM
Comparison Of Progressive High-Intensity Aerobic Exercise And High-Intensity Interval Training (HIIT) In Older HIV+ Adults
Timothy R. Wansley1, Chani Jain1, Alice S. Ryan2, Nabil Jarmukli1, Amithab Parashar1, Katherine Henley1, Maribeth O. Capuno1, Kris Ann K. Oursler1. 1University of Maryland School of Medicine, Baltimore, MD. 2Veterans Affairs Medical Center, The University of Maryland School of Medicine, Baltimore, MD.
(No relationships reported)

3212 Board #117 3:30 PM - 5:00 PM
Resting And Post Exercise Autonomic Function In Active And Insufficiently Active People Living With HIV
Norberto Quiles1, Burak Cilhoroz2, Joseph Ciccolo2, Carol Ewing Garber, FACSM1. 1Queens College, Flushing, NY. 2Teachers College Columbia University, New York, NY. (Sponsor: Carol Ewing Garber, FACSM)
(No relationships reported)

3213 Board #118 3:30 PM - 5:00 PM
Alterations In Intraocular Pressure And Corneal Thickness Immediately Following A 161-km Foot Race
Tracy B. Hoeg1, Genevieve K. Corrigan2, Martin D. Hoffman, FACSM1. 1University of California-Davis, Sacramento, CA. 2El Dorado Hills Optometric Center, El Dorado Hills, CA.
Email: tracybethhoeg@gmail.com
(No relationships reported)

3214 Board #119 3:30 PM - 5:00 PM
Strength Testing In Athletes Post ACL (Anterior Cruciate Ligament) Reconstruction: Does Graft Type Matter?
Dr. Brenda E. Castillo1, Dr. Juan C. Gallozo-Otero2, Dr. William Michoo, FACSM3. 1Texas Health and Science Center; Houston, TX. 2University of Puerto Rico- Medical Sciences Campus, San Juan, PR. 3University of Texas Health and Science Center, Houston, TX. (Sponsor: Dr. William Michoo, FACSM)

3215 Board #120 3:30 PM - 5:00 PM
Diminished Ventilatory Responses During Post-Exertional Malaise Contributes to Exercise Intolerance in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome
Chris Chuang1, Staci Stevens2, Todd Davenport1, Christopher R. Snell1, Jared Stevens1, J. Mark VanNess1. 1University of the Pacific, Stockton, CA. 2Workwell Foundation, Ripon, CA.
(No relationships reported)
Board #128  2:00 PM - 3:30 PM
Patterns of Objectively-assessed Sedentary Behavior in Community-dwelling Japanese Older Adults
Shiho Amagasa, Noritoshi Fukushima, Hiroyuki Kikuichi, Tomoko Takamiya, Shigeru Inoue. Tokyo Medical University, Tokyo, Japan. (No relationships reported)

Board #129  2:00 PM - 3:30 PM
Exploring Associations Between Greenspace, Physical Activity, And Health Outcomes: Results From The 2011-2015 Illinois BRFSS
Jong Cheol Shin, Diana S. Grigsby-Toussaint, 61820. University of Illinois at Urbana-Champaign, Champaign, IL. Email: john57@illinois.edu (No relationships reported)

Board #130  2:00 PM - 3:30 PM
The Impact of Public Transportation on Daily Walking Level
Kenta Okuyama. Colorado Department of Public Health and Environment, Denver, CO. (No relationships reported)

Board #131  2:00 PM - 3:30 PM
Social Network Engagement and Adherence with Physical Activity Recommendations; The American Time Use Survey
Carlene A. Mayfield1, Melinda Forthoffer1. 1University of South Carolina, Columbia, SC. (No relationships reported)

Board #132  2:00 PM - 3:30 PM
Reported Walkable Destinations Across Age Groups Among US Adults — 2015
Geoffrey Whitfield1, Susan A. Carlson1, Emily N. Ussery1, Kathleen Watson1, David Berrigan2, Janet E. Fulton, FACSM3. 1Centers for Disease Control and Prevention, Atlanta, GA. 2National Institutes of Health, Bethesda, MD. (Sponsor: Janet Fulton, FACSM) (No relationships reported)

Board #133  2:00 PM - 3:30 PM
The Effect of Ramadan Month on Changes in Objectively Assessed Physical Activity in Adults
Abdulaziz Farooq, Fuad Almudahka, Abdulla Al-Mohannadi. ASPETAR, Qatar Orthopaedic and Sports Medicine Hospital, Doha, Qatar. Email: mohammed.farooq@aspetar.com (No relationships reported)

Board #134  2:00 PM - 3:30 PM
Changes in Body Height And Weight Of Children And Adolescents In China During 1943-2014
Yihong Zhang, Yu Pei. Chengdu Sport Institute, Chengdu City, China. (Sponsor: Zhenghen Wang, FACSM) Email: 1688821@qq.com (No relationships reported)

Board #135  2:00 PM - 3:30 PM
Physical Literacy of 8-12 Year Old Children in Prince Edward Island, Canada
Travis Saunders, Rachel Kays, Dan MacDonald. University of Prince Edward Island, Charlottetown, PE, Canada. (No relationships reported)

Board #136  2:00 PM - 3:30 PM
Geographical Distribution, Socioeconomic Status And Health-related Physical Fitness In Adolescents From A Large Population-based Sample From Bogotá, Colombia: The Ser Study
Diogo Rodrigues-Bezerra1, Robinson Ramirez-Vélez2, Jorge E. Correa-Bautista3, Jose De Jesus Moreno-Montoya4, Gustavo Tovar5, Antonio García-Hernando6. 1Centro de Estudios para la Medición de la Actividad Física «CEMA», Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogota, Bogotá D.C, Colombia. 2Centro de Estudios para la Medición de la Actividad Física «CEMA», Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogota, Bogotá, Colombia. 3Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogotá, Bogotá D.C, Colombia. 4Laboratorio de Ciencias de la Actividad Física, el Deporte y la Salud, Universidad de Santiago de Chile, Santiago, Chile.

Board #137  2:00 PM - 3:30 PM
Trends in Walking for Transportation or Leisure Among U.S. Adults — National Health Interview Survey, 2005-2015
Emily N. Ussery1, Susan A. Carlson1, Geoffrey P. Whitfield1, Kathleen B. Watson1, David Berrigan2, Janet E. Fulton, FACSM3. 1Centers for Disease Control and Prevention, Atlanta, GA. 2National Cancer Institute, Bethesda, MD. (Sponsor: Janet Fulton, FACSM)

Board #138  2:00 PM - 3:30 PM
Findings from the 2016 Active Healthy Kids Scotland Report Card
ADRIENNE R. HUGHES1, Avril Johnston1, Geraldine McNeill2, John J. Reilly1. 1University of Strathclyde, Glasgow, United Kingdom. 2University of Aberdeen, Aberdeen, United Kingdom. (Sponsor: David Rowe, FACSM)

Board #139  2:00 PM - 3:30 PM
Running Profiles And Their Associated Behaviors: A Proposal For Chilean Runners
Manuela Besomi1, Jaime Leppe1, Manuel Vicente Mauri-Steccia1, Phillip S. Sizer2. 1Univesidad del Desarrollo, Santiago, Chile. 2Texas Tech University Health Sciences Center, Lubbock, TX. Email: mbesomin@uad.cl (No relationships reported)

Board #140  2:00 PM - 3:30 PM
< The Relationship Among The Built Environment, Transportation Behavior, And Population Health: Comparison Of Two Cities >
Eri Largo-Wight1, Christopher Peacock-McLaughlin, 32224, Julie W. Merten1, Peter S. Whadyka2, Jeff T. Wight3, Tammie Johnson, 32224. 1University of North Florida, Jacksonville, FL. 2Jacksonville University, Jacksonville, FL. Email: largo.wight@unf.edu (No relationships reported)

Board #141  2:00 PM - 3:30 PM
Physical Activity Among U.S. Adults With Mobility Disability, Briss, 2015
Dianna D. Carroll, Qing C. Zhang, Elizabeth A. Courtney-Long, Alissa C. Stevens. Centers for Disease Control and Prevention, Atlanta, GA. Email: feu9@cdc.gov (No relationships reported)
American College of Sports Medicine

3237  Board #142  2:00 PM - 3:30 PM
Assessing Street-scale Supports for Walking In The U.S. Virgin Islands — 2016
John D. Omura1, Emily Ussery1, Dana McGuire1, Lillianne Lewis1, John Orr2, Prabasaj Paul1, Erin L. Peterson1, Janet E. Fulton, FACSM, Kathleen Arnold-Lewis1, Esther Ellis1, Susan A. Carlson1. 
1US Centers for Disease Control and Prevention, Atlanta, GA. 2US Virgin Islands Department of Health, Christiansted, United States Minor Outlying Islands. Email: ydk8@cdc.gov 
(No relationships reported)

3238  Board #143  2:00 PM - 3:30 PM
Fitness And BMI Levels In Children Of The City Of Barcelona Related To Their Socio-economic Level (POIBA Project)
Josep Cabeado. Universitat Ramon Llull, Barcelona, Spain. Email: josepcc@blanquerna.url.edu 
(No relationships reported)

3239  Board #144  2:00 PM - 3:30 PM
Objective And Subjective Measures Of Walkability And Bikability At Westfield State University
Christina A. Lankarge, Melissa W. Roti, FACSM. Westfield State University, Westfield, MA. 
(No relationships reported)

3240  Board #145  2:00 PM - 3:30 PM
A National Survey of Popular Physical Activities among U.S. Children and Youth
Fan Gao1, Hai Yari, Weimo Zhu, FACSM. 1Southeast University, Nanjing, China. 2University of Illinois at Urbana-Champaign, Urbana, IL. 3University of Illinois at Urbana-Champaign, Urbana, IL. (Sponsor: Weimo Zhu, FACSM) Email: fan_gao@seu.edu.cn 
(No relationships reported)

3241  Board #146  2:00 PM - 3:30 PM
Do New Zealand Women’s Age and Ethnicity Contribute to Achieving Physical Activity Guidelines?
Wendy J. O’Brien1, Sarah P. Shultz2, Bernhard H. Breier1, Rozanne Krugr1. Massey University, Wellington, New Zealand. 3Massey University, Auckland, New Zealand. 4Massey University, Wellington, New Zealand. Email: w.j.obrien@massey.ac.nz 
(No relationships reported)

3242  Board #147  2:00 PM - 3:30 PM
Comparison Of Weekended And Weekdays Physical Activity Levels In Korean Professional Golfers.
Jin-Su Seok1, Seoungki Kang1, Minkyoung Nam1, Hyun-Sung A2, Jung-Min Lee, 68182. 1Yong In University, Yong In, Korea, Republic of 2University of Nebraska at Omaha, Omaha, NE. Email: susco@gmail.com 
(No relationships reported)

F-57  Free Communication/Poster - Energetics
Friday, June 2, 2017, 1:00 PM - 6:00 PM
Room: Hall F

3243  Board #148  3:30 PM - 5:00 PM
Effect Of Work Intensity On The Kinetics Of W
Kyle H. Yost, Philip F. Skiba. Lutheran General Hospital, Park Ridge, IL. Email: kyleyost08@gmail.com 
(No relationships reported)

3244  Board #149  3:30 PM - 5:00 PM
Energy Expenditure In Low-load Resistance Exercise With Slow Movement Using Body Mass Alone As Load
Takashi Nakagata1, Yosuke Yamada2, Hisashi Naito1. 1Nintendo University, Inaz, Japan. 2National Institutes of Biomedical Innovation, Health and Nutrition, Tokyo, Japan. 
(No relationships reported)
Board #160 3:30 PM - 5:00 PM  
Energy Expenditure of College Students  
Teresa Wiczynski1, Cody E. Morris1, Harish Chander2, Samuel J. Dalleck.  
Western State Colorado University, Gunnison, CO.  
Email: hwliu@ntnu.edu.tw  
(No relationships reported)

F-58  Free Communication/Poster - Ergogenic Aids III  
Friday, June 2, 2017, 1:00 PM - 6:00 PM  
Room: Hall F

Board #162  2:00 PM - 3:30 PM  
Accounting For The ‘Dehydration Factor’ In The Athlete Biological Passport  
Katherine Mitchell, Robert Kenefick, FACSM, Samuel Cheuvront, FACSM, UKAHEM, Natick, MA. (Sponsor: Samuel N. Cheuvront, FACSM)  
(No relationships reported)

Board #163  2:00 PM - 3:30 PM  
Nrf-2 Activation by Palm Fruit Bioactives  
Shawn M. Talbott, FACSM1, Cory Grand2, Kevin L. Ohashi1, Joseph De Angelo3.  
1Eastern Kentucky University, Bowling Green, KY. 2Mississippi State University, Mississippi State, MS. 3University of Mississippi, University, MS.  
Email: barnesk@gvsu.edu  
(No relationships reported)

Board #164  2:00 PM - 3:30 PM  
Effects Of Seaweed Supplementation On Oxidative Stress And Blood Glucose Regulation After Resistance Training In Rats  
Chun-Tai Chen1, Chi-Hong Lu2, Chi Yang3, Yu-You Wu4, Ching-Hung Lin5, Chien-Wen Hou6.  
1University of Taipei, Taipei, Taiwan. 2Taiwan Medical University, Taipei, Taiwan. 3National Taiwan University of Physical Education, Taipei, Taiwan. 4National Cheng Kung University, Tainan, Taiwan.  
Email: soonmi.choi@mwsu.edu  
(No relationships reported)

Board #165  2:00 PM - 3:30 PM  
Flavanol-Rich Lychee Fruit Extract Prevents Diabetes-induced Muscle Loss And Palmitate-induced Myocyte Loss  
Hung-Wen Liu1, Sae-Joon Chang2.  
1National Taiwan Normal University, Taipei, Taiwan. 2National Cheng Kung University, Tainan, Taiwan.  
Email: hwliu@ntnu.edu.tw  
(No relationships reported)

Board #166  2:00 PM - 3:30 PM  
No Adverse Effects of Matcha Green Tea Powder on Metabolic and Physiological Responses During Running  
Mark E. Willems, Julianne Doherty, Sam D. Blacker.  
University of Chichester, Chichester, United Kingdom.  
Email: m.willems@chi.ac.uk  
(No relationships reported)

Board #167  2:00 PM - 3:30 PM  
Beyond Ginseng And Echinacea: A Meta-analysis Of Herbal Supplement Use By Athletes  
David S. Senchina.  
Drake University, Des Moines, IA.  
Email: david.senchina@drake.edu  
(No relationships reported)

Board #168  2:00 PM - 3:30 PM  
Seaweed Supplement Harmed The Exercise Effect In Ovariectomy Rats  
Ji-Hong Lu, Chun Tai Chen, Jian Liu, Yu You Wu, Chi Yang, Ching Hung Lin, Chien Wen Hou.  
University of Taipei, Taipei, Taiwan.  
(No relationships reported)

Board #169  2:00 PM - 3:30 PM  
Capsaicin Induces Metabolic Gene Expression in C2C12 Mystobuses  
Michele A. Johnson1, Jamie K. Schnuck1, Frank B. Wyatt1, Deok Su Yoo2.  
1University of Taipei, Taipei, Taiwan. 2Yuan Ze University, Taoyuan, Taiwan.  
(No relationships reported)

Board #170  2:00 PM - 3:30 PM  
The Effect Of Chlorella Supplementation On Exercise Performance And Inflammation-related Blood Cells After Dehydration.  
Chia-Pei Lin1, Chung-Fu Chi2, Ming-Fen Xu3, Szu-Haien Yu4.  
1University of Taipei, Taipei, Taiwan. 2Taipei Medical University, Taipei, Taiwan. 3National Ilan University, Taipei, Taiwan. 4Email: rroseice@gmail.com  
(No relationships reported)

Board #171  2:00 PM - 3:30 PM  
High Intensity Interval Training And Chlorella Intake Enhance Muscle Glycolytic And Oxidative Metabolism In Rats.  
Naoki Horii1, Natsuki Hasegawa1, Shumpei Fujie1, Masataka Uchida1, Eri Miyamoto-Makami2, Takeshi Hashimoto, FACSM3, Izumi Tabata, FACSM3, Motoyuki Iemitsu1.  
1Ritsumeikan University, Kusatsu, Japan. 2National Institute of Fitness and Sports in Kanoya, Kanoya, Japan. 3Email: r.roseice@gmail.com  
(No relationships reported)

Board #172  2:00 PM - 3:30 PM  
Effects Of Energy Drink On Metabolic Parameters and Exercise Performance Following Basketball Game Simulation  
Soon-Mi Choi1, Kristin Russell1, Frank B. Wyatt1, Deok Su Yoo2.  
1Midwestern State University, Wichita Falls, TX. 2Kyung Hee University, Yongin, Korea, Republic of.  
Email: soonmi.choi@mwsu.edu  
(No relationships reported)

Board #173  2:00 PM - 3:30 PM  
Seven Days Of Mushroom Blend Supplementation Improve Measures Of Aerobic And Anaerobic Performance  
Wesley D. Dodgeon, David Thomas, William J. Dauch, Michelle M. McLeod, Timothy P. Scheett.  
College of Charleston, Charleston, SC.  
Email: dudonnw@cofc.edu  
(No relationships reported)
American College of Sports Medicine

Board #174 2:00 PM - 3:30 PM
Increased Time to Fatigue Following Twenty-Eight Days of Mushroom Blend Supplementation
Dennison D. Thomas, Wesley D. Dudgeon, William J. Dauch, Timothy P. Scheett. College of Charleston, Charleston, SC. (No relationships reported)

Board #175 2:00 PM - 3:30 PM
The Effect Of Blackcurrant Polyphenols On Recovery And Performance In Elite Endurance Athletes In Preparation For The World Championships
Nathan A. Lewis1, Richard Burden1, Georgie Bruinvels1, James Cheeseman1, Stuart Pickering1, Chris Price1, Kevin Currell1, Jan Bartu1, Glyn Howatson, FACSM1, Charles R. Pedlar2. 1English Institute of Sport, Bath, United Kingdom. 2St Mary’s University, London, United Kingdom. *British Modern Pentathlon, Bath, United Kingdom. *Northumbria University, Newcastle, United Kingdom. 1Massachusetts General Hospital, Boston, MA. Email: nathan.lewis@es2win.co.uk
(No relationships reported)

Board #176 2:00 PM - 3:30 PM
The Effects Of Cissus Quadrangularis On Body Composition And Blood Lipids
Eric E. Noreen, Cara E. Pietrolongo, David S. Gilmore. Gettysburg College, Gettysburg, PA. Email: enoreen@gettysburg.edu
(No relationships reported)

Board #177 2:00 PM - 3:30 PM
Effects Of Tart Cherry Concentrate Upon Muscle Oxygenation During Cycling Exercise
Gregory R. Davis, Amber Victor, David Bellar. University of Louisiana at Lafayette, Lafayette, LA. Email: grd4805@louisiana.edu
(No relationships reported)

Board #178 2:00 PM - 3:30 PM
Effects Of Aquarobic Exercise And Burdock Extract On Blood Lipids And Vascular Compliance In Elderly Women
Min-Seong Ha1, Do-Yeon Kim1, Jong-Won Kim2, Ji-Hyeon Kim1, Ji-Hoon Kim1, Su-Jin Huy1, Jung-Sook Kim1, Su-Han Koh1. 1Pusan National University, Busan, Korea, Republic of. 2Pusan National University of Education, Busan, Korea, Republic of. Email: dennison.thomas@gmail.com
(No relationships reported)

Board #179 2:00 PM - 3:30 PM
No Effect Of Acute Beetroot Juice Supplementation on Moderate and Vigorous Intensity Aerobic Exercise
Ryan Fiddler, Nicole Lindel. SUNY-Cortland, Cortland, NY. Email: ryan.fiddler@cornell.edu
(No relationships reported)

Board #180 2:00 PM - 3:30 PM
Effects Of Spice-TRP Channel Activator Drink on Performance During Intermittent High-Intensity Exercise
Brittany S. Pope1, Leanna M. Ross1, Jackie E. Bader2, Justin P. Harde1, Alexis U. Mbatue1, Jonathan J. Ruiz-Ramie1, Ashley G. Swavely1, Bryan M. Terlizzi1, James A. Carson, FACSM1, E Angela Murphy3, Stephen C. Chen4, J Mark Davis, FACSM1. 1University of South Carolina, Columbia, SC. 2University of South Carolina School of Medicine, Columbia, SC. 3Bob Jones University, Greenville, SC. Email: popebs@email.sc.edu
(No relationships reported)

Board #181 2:00 PM - 3:30 PM
Effect Of A Nutraceutical Product On Energy, Fatigue, And Perceived Exertion In Healthy Active Adults
Marcus W. Kilpatrick, FACSM1, Danielle K. Williams1, Priscila P. Lamadrid1, Larry H. Collins1, Paula C. Bickford1, Cyndy D. Sanberg1. 1University of South Florida, Tampa, FL. 2Natura Therapeutics, Tampa, FL. Email: mkilpatrick@usf.edu
(No relationships reported)

Board #182 2:00 PM - 3:30 PM
Betaine-Rich Concentrate Supplementation Improves Exercise Performance and Recovery in Competitive Triathletes
Christian F. Montenegro, David A. Kwong, Gretchen Casazza, Brian A. Davis, FACSM. University of California, Davis, Davis, CA. Email: cmontenegro@ucdavis.edu
Reported Relationships: C.F. Montenegro: Salary; VDF FutureCarnetics, Incorporated.

Board #183 2:00 PM - 3:30 PM
Effects of Korean Wild Ginseng Drink on Recovery from Acute Strenuous Exercise
Nan Hee Lee1, Hyeon Chul Jung2, Gina Ok1, Soen Jeon1, Minsoo Kang, FACSM1, Sukho Lee1. 1Texas A&M University San Antonio, San Antonio, TX. 2University of Louisiana at Monroe, Monroe, LA. 3Middle Tennessee State University, Murfreesboro, TN. (Sponsor: Minsoo Kang, FACSM)
(No relationships reported)

Board #184 2:00 PM - 3:30 PM
Effects Of Ursolic Acid Supplementation on Early Strength Gains and Body Composition
Ashton Roman, Chi-An W. Emhoff. Saint Mary’s College of California, Moraga, CA. (No relationships reported)

Board #185 2:00 PM - 3:30 PM
Effects of Peppermint Oil Supplementation on the Ventilatory Threshold in Young Women
Julianna M. Oates, Chi-An W. Emhoff. Saint Mary’s College of California, Moraga, CA. (No relationships reported)

Board #186 2:00 PM - 3:30 PM
Heteropterys Tomentosa A. Juss. Extract Improved The Physical Performance And Presented A Powerful Antimutagenic Effect
Fabricio Azevedo Vilettre, Dr., Gésica Alves Fraga, Ms., Emilily Della Pasqua Espindola, Ms., Domingos Tabajara de Oliveira Martins, Dr. Federal University of Mato Grosso (UFMT), Cuiabá-MT, Brazil. Email: faunesp@yahoo.com.br
(No relationships reported)

Board #187 2:00 PM - 3:30 PM
The Effects Of Long-term Vs. Single Dose Nitrate Supplementation On Skeletal Muscle Oxygenation During A Simulated Cycling Time Trial
Michelle Fischer1, Alexandra Auslander1, Alan Beigarten1, Bruce Daggy2, Ken Hansen1, Lisa Kessler1, Adam Osmond1, Hong Wang2, Rachel Wes1, Edward Jo3. 1Cal Poly Pomona, Pomona, CA. 2Shaklee Corporation, Pleasanton, CA. Email: michellekfischer@yahoo.com
(No relationships reported)

Board #188 2:00 PM - 3:30 PM
Effect Of Inorganic Nitrate Supplementation On O2 Uptake Kinetics And Exercise Tolerance: Influence Of Muscle Oxygenation
Brynnor C. Breese1, Stuart P. Cocksedge2, Christopher Thompson2, Lee J. Wylie1, Anni V. vanhatalo (FACSM), FACSM2, Andrew M. Jones (FACSM), FACSM3, Stephen J. Bailey1. 1Plymouth University, Plymouth, United Kingdom. 2University of Exeter, Exeter, United Kingdom. 3Loughborough University, Loughborough, United Kingdom. Email: brynnorbreese@plymouth.ac.uk
(No relationships reported)
Friday, June 2, 2017

**P224 Final Program**

**Board #189**

**Beetroot-Based Gel Improves Forearm Reoxygenation and Strength After Exercise in Elderly with Cardiovascular Risk Factors.**


Email: gvo.vieira@gmail.com

(No relationships reported)

**Board #190**

**Muscle Damage and Inflammation Following a Marathon: Influence of Beetroot Juice.**

Tom Clifford1, Dean Allerton1, Meghan Brown1, Liam Harper1, Steven Horsburgh1, Karen M. Kean1, Emma J. Stevenson1, Glyn Howatson, FACSM.1 Northumbria University, Newcastle, United Kingdom.2 Newcastle University, Newcastle, United Kingdom.

(Sponsor: Glyn Howatson, FACSM)

Email: tom.clifford@nypost.ac.uk

(No relationships reported)

**Board #191**

**The Impact of Beetroot Extract Ingestion on Lactate Kinetics During Submaximal Exercise**

Erika J. Parisi1, Miranda Contursi2, Jennifer Michaud-Finch1, Mary Zhang-Bechies1, Marcel G. Brown1, Meagan M. Wasfy1, Adolph M. Hutter1, Gregory D. Lewis1, Aaron L. Baggish, FACSM.1 Frank H Yettie. MD School of Medicine at Quinnipiac University, North Haven, CT.2 Massachusetts General Hospital, Boston, MA. (Sponsor: Aaron Baggish, FACSM)

Email: erika.parisi@quinnipiac.edu

(No relationships reported)

**Board #192**

**Dietary Nitrate Supplementation Improves Sprint and High-Intensity Intermittent Running Performance**

Christopher Thompson1, Ann Vanhalato, FACSM1, Harry Jell1, Jonathan Fulford1, Lara Nymar1, Stephen J. Bailey1, Andrew M. Jones, FACSM.1 University of Exeter, Exeter, United Kingdom.2 Gatorade Sports Science Institute, Barrington, IL.

(Sponsor: Proctor, FACSM)

Email: smookenj@bloomu.edu

(No relationships reported)

**Board #193**

**Abstract Withdrawn**

**Board #194**

**Acute Nitrate Supplementation Improves Ischemic Exercise Tolerance in Post-Menopausal Women**

Swapan Mookerjee1, Jin-Kwang Kim1, Susan Boun1, Megan A. Barrett1, David J. Moore1, Yasina Somani1, Michael P. Flanagan1, Daniel B. Kim-Shapiro1, Swati Basu1, David N. Proctor, FACSM1.1 Bloomsburg University, Bloomsburg, PA.2 Penn State University, State College, PA.3 Wake Forest University, Winston-Salem, NC.

(Sponsor: David Proctor, FACSM)

Email: mryan3@fairmontstate.edu

(No relationships reported)

**Board #195**

**Dietary Nitrate Supplementation Reduces The Oxygen Cost Of Submaximal Arm Crank Exercise**

Lee J. Wyler1, Stephen J. Bailey1, Ann Vanhalato, FACSM1, Sascha Kranen1, Ana C. Souza1, Andrew M. Jones, FACSM.1 University of Exeter, Exeter, United Kingdom.2 University of Porto, Porto, Portugal.

(No relationships reported)

**Board #196**

**The Effect of an Acute Dose of Beet Juice on Female College Soccer Performance**

Marisa J. Brothwell1, Deanna Schief1, Gavin Connolly2, Shane O’Riordain1, Christen Chiesa1, Yeonsoo Kim2, Paul L. O’Connor2. (Sponsor: David Proctor, FACSM)

1 University of Michigan, Ann Arbor, MI.2 Central Michigan University, Mt Pleasant, MI.

Email: brothl1mj@gmail.com

(No relationships reported)

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**ACSM 64th Annual Meeting**

**Board #197**

**Far-infrared Emitting Fabric Improves Aerobic Metabolism, Oxidative Stress and Exercise Tolerance, Independent of Nitric Oxide**

Arthur Gaspard1, Antônio Carlos de Moraes1, Celene Bernardes2, João Barbieri1, Patricia Guimaraes1, Amanda Sardelli, Alex Castro1, Andrei Sposito1, Glenn McColl1, David Briskye1, Mara Patricia Chacon-Mikahl2, Romulo Bertuzzi1.1 University of Campinas, Campinas, Brazil.2 Metrocamp/DeVry, Campinas, Brazil.3 Victoria University, Melbourne, Australia.4 University of Queensland, Brisbane, Australia.5 University of São Paulo, São Paulo, Brazil.

Email: arthur.fg@hotmail.com

(No relationships reported)

**Board #198**

**Beetroot Supplementation Effects On Exercise Performance During Cycling And Oxidative Damage**

Kayla Hartley, Michael J. Ryan, Jessica Alsop, Shinichi Asano, Paul Reneau. Fairmont State University, Fairmont, WV.

Email: mryan3@fairmontstate.edu

(No relationships reported)

**Board #199**

**Effects of Fermented Drink Intake on Post-exercise Glycogen Restoration in Rat Skeletal Muscle and Liver**

Tsusbasa Shigubuchi1, Rie Ishizawa1, Atsushi Tsuji2, Yuya Yamazaki2, Keizo Matsu1, Kazumi Masuda1,1 Kanazawa University, Ishikawa, Japan.2 Waseda University, Saitama, Japan.3 Industrial Research Institute of Ishikawa, Ishikawa, Japan.4 Fukumitsuyna Sake Brewery, Ishikawa, Japan.

Email: shiba-t@staff.kanazawa-u.ac.jp

(No relationships reported)

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**F-59 Free Communication/Poster - Ergogenic Aids V**

Friday, June 2, 2017, 1:00 PM - 6:00 PM

**Room: Hall F**

**Board #200**

**Prescription Strength Ibuprofen Interferes with Prophylactic Adaptations to Heavy Unaccustomed Resistance Exercise**

Jessica G. Elbar1, Michael J. Saunders, FACSM1, MK Todd1, Andrew C. D’Lugos2, Nicholas D. Luden3.1 University of Arizona, Tucson, AZ.2 University of South Carolina, Columbia, SC.3 Bob Jones University, Greenville, SC.

(No relationships reported)

**Board #201**

**Acute Naproxen Dose On Gastrointestinal Distress And Performance During Moderate-intense Cycling In The Heat**

Dawn M. Emerson1, J M. Davis, FACSM1, Stephen CL. Chen1, Toni M. Torres-McGehee2, Charles C. Emerson1, Craig E. Piferie, Joseph D. Bivona, Justin V Stone3, J L. Durstine, FACSM.1 University of Kansas, Lawrence, KS.2 University of South Carolina, Columbia, SC.3 Bob Jones University, Greenville, SC.

(No relationships reported)

**Board #202**

**Gender, Past Prescription, and Knowledge of Abuse Impact College Students’ Feelings on Prescription Pain Killers**

Evan C. Johnson, Ainsley E. Huffman, Gretchen Seweza-Claude, Derek T. Smith. University of Wyoming, Laramie, WY.

Email: evan.johnson@uwyo.edu

(No relationships reported)

**Board #203**

**Hydrogen-rich Water Modulates Redox Status Repeated Three Consecutive Days Of Strenuous Exercise.**


(No relationships reported)
American College of Sports Medicine

3300
Board #205 3:30 PM - 5:00 PM
Effect Of Low Dose Cobalt Administration On Erythropoiesis
Walter FJ Schmidt1, Torben Hoffmeister1, Nadine Wachsmuth1, Dirk Schwenke2, William C. Byrnes, FACSM3. 1University of Bayreuth, Bayreuth, Germany. 2University of Dresden, Dresden, Germany. 3University of Colorado, Boulder, CO. (Sponsor: William C. Byrnes, FACSM)
Email: walter.schmidt@uni-bayreuth.de
Reported Relationships: W.F. Schmidt: Ownership Interest (Stocks, Bonds); W.J. Schmidt is a managing partner of Blood tec GmbH.

3301
Board #206 3:30 PM - 5:00 PM
Using Polyphenol-Based Soap Ameliorates Eccentric Exercise-Induced Muscle Damage
Bo-Huei Huang, Hsin-Yi Lin, Kuei-Hui Chan, Chi-Huang Huang. National Taiwan Sport University, Taoyuan City, Taiwan.
Email: 1040609@ntsu.edu.tw
Reported Relationships: B. Huang: Honoraria; Hong Kong Small Biomolecules Laboratory.

3302
Board #207 3:30 PM - 5:00 PM
Effect of an alpha-GPC Supplement on Physical Performance in Division 2 Football Players
Matthew Gage, Kevin Phillips, Byungjoo Noh, Tejin Yoon. Michigan Technological University, Houghton, MI.
Email: mgage@mtu.edu
(No relationships reported)

3303
Board #208 3:30 PM - 5:00 PM
Dietary Anti-oxidant Cocktail Supplementation Against Metabolic And Functional Alterations Induced By Physical Inactivity In Humans
Anthony DAMIOT. IPHC - CNRS, STRASBOURG cedex 02, France.
Email: anthony.damiot@gmail.com
(No relationships reported)

3304
Board #209 3:30 PM - 5:00 PM
Folic Acid-layered Double Hydroxide (LDH) Nanoparticles To Improve Endurance Capacity In Mice
Qin Lili, Hui Juan, Lu Tianfeng, Feng Linlin, Sun Jingyu, You Songhui. Tongji University, Shanghai, China.
Email: qinlili@tongji.edu.cn
(No relationships reported)

3305
Board #210 3:30 PM - 5:00 PM
Effects Of Calcium & Magnesium Lactate Supplementation On VO2max & OBLA
Aaron Russ, Albino Schifino, Zachary McCulloch, Jason Melnyk, Kimberly Kostelis, Chee-Hoi Leong. Central CT State University, New Britain, CT.
Email: rass@my.ccsu.edu
(No relationships reported)

3306
Board #211 3:30 PM - 5:00 PM
Astaxanthin Formulation Induces Muscle Strength and Endurance Increases Beyond High Intensity Training in Elderly Subjects
Sophia Z. Liu1, Amir Ali1, Matt VanDoren1, Baback Roshanravan1, Eric Shankland2, Kevin Conley3. 1University of Washington, Seattle, WA. 2Fred Hutch Prevention Center, Seattle, WA.
Email: sophia21@uw.edu
Board #227 3:30 PM - 5:00 PM

Patellar Tendon
The Effect Of Cold Water Immersion Treatment On Symptoms and Health Behaviors
Trevor C. Chen1

(No relationships reported)
Email: tcchen@ntnu.edu.tw
Joondalup, WA, Australia.

Board #228 3:30 PM - 5:00 PM

Altered Joint Loading Affects Cartilage Degeneration and Limb Function in Rats following Knee Meniscal Transaction
Liang-Ching Tsai2, Elana S. Cooper2, Kevin M. Hetzendorfer3, David S. Reece2, Young-Hui Chang1, Caroline R. Waters6, Robert E. Guldborg3, Gordon L. Warren, FACSM1, Nick J. Willett3. 1Georgia State University, Atlanta, GA. 2Emory University, Atlanta, GA. 3Georgia Institute of Technology, Atlanta, GA. (Sponsor: Gordon Warren, FACSM)
Email: ltsai@gsu.edu
(No relationships reported)

Board #229 3:30 PM - 5:00 PM

Prevalence of Joint Pain Before and After Bariatric Surgery and Impact on Physical Activity
Alexandra Sirois, Ryan E.R. Reid, Kathleen M. Andersen, Nicolas V. Christou, Ross E. Andersen, FACSM, Susan J. Bartlett. McGill University, Montreal, QC, Canada.
(No relationships reported)

Board #230 3:30 PM - 5:00 PM

Cartilage And Subchondral Bone Histomorphometry In Osteoarthritis Knee.
Masensen Chérie1, Annabelle Cesaro1, Thomas M. Best, FACSM2, Mazen Afis1, Eric Lespessailles1, Hechmi Toumi1. 1Service de Rhumatologie, Centre hospitalier régional d’Orléans. Orléans University, Orleans, France. 2Department of Orthopedics, Division of Sports Medicine, Miami, FL. 3Service orthopédique, CHR Orleans, Orleans, France. (Sponsor: Thomas Best, FACSM)
Email: hechmi.toumi@univ-orleans.fr
(No relationships reported)

Board #231 3:30 PM - 5:00 PM

Early Unloading and Loading Exercises for Preventing Posttraumatic Osteoarthritis after Anterior Cruciate Ligament Injury
Yanjmaa Erdenekhuyag. Sports medicine, Ulaanbaatar, Mongolia.
Email: Yanjmaa.oksana@yahoo.com
(No relationships reported)

Board #232 3:30 PM - 5:00 PM

Postural Pain: A Case Study
Emily Mulcahy, Cody Baglow, Melissa W. Roti, FACSM. Westfield State University, Westfield, MA.
(No relationships reported)

Board #233 3:30 PM - 5:00 PM

Effects Of Methol Gel On Delayed-Onset Muscle Soreness (DOMS) In Sedentary Young Adults
Michael E. Rogers, FACSM1, Jolaolu M. Jimoh1, Sri Valli Chekuri1, Duane C. Button2. 1National Taiwan Normal University, Taipei City, Taiwan. 2National Chiayi University, Chiayi County, Taiwan. 3Edith Cowan University, Joondalup, WA, Australia.
Email: michael.rogers@wichita.edu
(No relationships reported)

Board #234 3:30 PM - 5:00 PM

Post-traumatic Osteoarthritis after Anterior Cruciate Ligament Injury
Yunjmaa Erdenekhuyag. Sports medicine, Ulaanbaatar, Mongolia.
Email: Yanjmaa.oksana@yahoo.com
(No relationships reported)

Board #235 3:30 PM - 5:00 PM

Early Unloading and Loading Exercises for Preventing Posttraumatic Osteoarthritis after Anterior Cruciate Ligament Injury
Yanjmaa Erdenekhuyag. Sports medicine, Ulaanbaatar, Mongolia.
Email: Yanjmaa.oksana@yahoo.com
(No relationships reported)

Board #232 3:30 PM - 5:00 PM

Abstract Withdrawn

F-61 Free Communication/Poster - Musculoskeletal

Friday, June 2, 2017, 1:00 PM - 6:00 PM
Room: Hall F

Board #233 2:00 PM - 3:30 PM

Rock Climbers’ Utilization Of Healthcare In The Management Of Hand Injuries
Jillian Gold1, Keaton Piper1, Ryan Bodkin1, Erik Ruckemann2, Camille Martina2. 1University of Rochester School of Medicine, Rochester, NY. 2University of Rochester Medical Center, Rochester, NY.
Email: jillian.gold@urmc.rochester.edu
(No relationships reported)

Board #234 2:00 PM - 3:30 PM

Effects of Athletic Tape, Leukotape P, and Prophylactic Bracing During a Dynamic Postural Control Test
Karlee Burns, Will F.W. Wu, Tiffany Vargas, Mimi Nakajima. CSULB, Long Beach, CA.
Email: burns_karlee@yahoo.com
(No relationships reported)

Board #235 2:00 PM - 3:30 PM

Effect Of Cold Water Immersion Or Contrast Water Therapy on Muscle Soreness After Exercise
Christine Lauber, Shelby Hickle, Jordyn Jargstorf, Casey West. University of Indianapolis, Indianapolis, IN. (Sponsor: Matthew Beekley, FACSM)
Email: clauber@uindy.edu
(No relationships reported)
3331 Board #236
2:00 PM - 3:30 PM
Can Weakness in End-Range Plantarflexion after Achilles Repair Be Prevented?
Email: karl@nismat.org
(No relationships reported)

3332 Board #237
2:00 PM - 3:30 PM
A Comparison of Two Equipment Removal and Spinal Restriction Protocols on Cervical Spine and Head Motion during Football Player Stretch Transfer
Tyler Melnicove, Jennifer Kalash, Steven Leigh. Montclair State University, Montclair, NJ.
(No relationships reported)

3333 Board #238
2:00 PM - 3:30 PM
Vitamin D3 Supplementation and Stress Fracture Occurrence in High-Risk Collegiate Athletes
Kevin A. Williams, Christian Askew, Christopher Mazoue, Jeffrey Gay, Toni M. Torres-McGehee, J. Benjamin Jackson III. Palmetto Health Richland, Columbia, SC.
Email: kwil77md@gmail.com
(No relationships reported)

3334 Board #239
2:00 PM - 3:30 PM
Rasch Calibration of the Knee Injury Osteoarthritis Outcomes Score
James L. Farnsworth, II1, Todd Evans2, Helen Binkley3, Minsoo Kang, FACSM2, 1Buena Vista University, Storm Lake, IA. 2University of Northern Iowa, Cedar Falls, IA. 3Middle Tennessee State University, Murfreesboro, TN. (Sponsor: Minsoo Kang, FACSM)
Email: farnsworth@bvu.edu
(No relationships reported)

3335 Board #240
2:00 PM - 3:30 PM
Knee Rotation Related to Knee Angle and Applied Torque
Seiya MASEGI. Nigata University of Health and Welfare, Niigata-shi, Niigata-ken, Japan.
Email: masegi@nuhw.ac.jp
(No relationships reported)

3336 Board #241
2:00 PM - 3:30 PM
Platelet-rich Plasma Injections For Accelerating Treatment Of Hamstring Tear Injuries
Ahmed Gaballah1, Azza Abdalaziz2, Adham Elgosi3, Naglaa Shkrah1, Eadric Bressel4. 1Hacettepe University, Ankara, Turkey. 2Alexandria University, Alexandria, Egypt. 3Gazi University, Ankara, Turkey. 4Private Guven Hospital, Ankara, Turkey. (Sponsor: GUL BALTACI, FACSM)
Email: aktsangulcan@gmail.com
(No relationships reported)

3337 Board #242
2:00 PM - 3:30 PM
Functional Outcomes of ACL Reconstruction with Tibialis Anterior Allograft, Hamstring or Quadriceps Tendon Autograft
Hande Guneý-Deniz1, Defne Kayâ2, Mahmut Nedim Doral3. 1Hacettepe University Faculty of Health Sciences Physiotherapy and Rehabilitation, Ankara, Turkey. 2Uskudar University, Faculty of Health Sciences, Department of Physiotherapy and Rehabilitation, Istanbul, Istanbul, Turkey. 3Hacettepe University, Faculty of Medicine, Department of Orthopedics and Traumatology, Ankara, Turkey.
Email: hande.guneey@hacettepe.edu.tr
(No relationships reported)

3338 Board #243
2:00 PM - 3:30 PM
Effects of Tourniquet Use during Total Knee Arthroplasty on Global Cytokine Changes Associated with Ischemia Reperfusion Injury
(No relationships reported)

3339 Board #244
2:00 PM - 3:30 PM
To What Extent is Weakness after ACL Reconstruction due to Central Inhibition versus Muscle Atrophy? A Magnetic Stimulation Study.
Email: tfukunaga@northwell.edu
(No relationships reported)

3340 Board #245
2:00 PM - 3:30 PM
Magnetic Resonance Imaging Detection of Meniscal Injuries in Pediatric and Adolescent Patients with ACL Tears
Alana M. Munger1, Nicholas R. Gonsalves2, Emily Clarke1, Curtis Vandenberg2, James L. Pace2, 1Keck School of Medicine of USC, Los Angeles, CA. 2Children’s Hospital Los Angeles, Los Angeles, CA.
Email: amunger@usc.edu
(No relationships reported)

3341 Board #246
2:00 PM - 3:30 PM
Body Mass Index is Associated with Cartilage Turnover in Individuals with ACL Reconstruction
Amy R. Lane, Matthew S. Harkey, Britney A. Luc-Harkey, Hope C. Davis, J Troy Blackburn, Anthony C. Hackney, FACSM, Brian Pietrosimone. University of North Carolina at Chapel Hill, Chapel Hill, NC.
Email: laneai@email.unc.edu
(No relationships reported)

3342 Board #247
2:00 PM - 3:30 PM
Quadriiceps Muscle Strength Recovers Faster Than Hamstring Strength After ACL Reconstruction With Hamstring Tendon Autograft
Gulcan Harput1, Hamza Ozer2, Gul Baltaci, FACSM3. 1Hacettepe University, Ankara, Turkey. 2Gazi University, Ankara, Turkey. 3Private Guven Hospital, Ankara, Turkey. (Sponsor: GUL BALTACI, FACSM)
Email: alanta@tugucan@gmail.com
(No relationships reported)

3343 Board #248
2:00 PM - 3:30 PM
Knee Flexor Strength and Activation Levels During Testing After ACL Reconstruction with a Semitendinosus Graft.
Kristin Briem, Árni Traustason, Katrín Björgvinsdóttir, Þórarinn Sveinsson.
Email: kbriem@hi.is
(No relationships reported)

3344 Board #249
2:00 PM - 3:30 PM
The Modified Thomas Test: Does It Matter How It Is Performed?
Sean A. Horan, Neil Tuttle. Griffith University, Gold Coast, Australia.
Email: s.horan@griffith.edu.au
(No relationships reported)

3345 Board #250
2:00 PM - 3:30 PM
Competitive Bass Anglers: A New Concern in Sports Medicine
Connor R. Read, Shawna L. Watson, Jorge L. Perez, A Reed Estes. UAB Hospital, Birmingham, AL.
Email: connor.r.read@gmail.com
(No relationships reported)
Board #251 | 2:00 PM - 3:30 PM
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Comparison Study On Early Postoperative Functional Exercises Of Simple Ocoecranon Fracture
Ziyi Qi, Chengdu Sport Institute, Chengdu, China.
Email: 373677971@qq.com
(No relationships reported)

Board #252 | 2:00 PM - 3:30 PM
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Sedentary Behavior in People with Total Knee Arthroplasty and Those Awaiting Surgery
Sandra C. Webber, Shaelyn M. Strachan, Navjot S. Pachu. University of Manitoba, Winnipeg, MB, Canada.
Email: sandra.webber@umanitoba.ca
(No relationships reported)

Board #253 | 3:30 PM - 5:00 PM
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Variations in Verbal Encouragement Modify Isokinetic Performance at High Speeds
Nicole K. Rendos1, Rebeca C. Regis2, Taislaine Alipio2, Kysha Harriell3, Joseph F. Signorile4. Florida International University, Miami, FL. University of Miami, Coral Gables, FL. (Sponsor: Army Medical Department, Washington, D.C.)
Email: 373677971@qq.com
(No relationships reported)

Board #254 | 3:30 PM - 5:00 PM
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Physiological Adaptation, Safety And Finishing Rate To Half Ironman Training For Age Group Triathletes
Francois Lalonde, J3L 1C61
Email: 373677971@qq.com
(No relationships reported)

Board #255 | 3:30 PM - 5:00 PM
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Kinematics of Softball Hitting Off of a Tee versus Front Toss
Jessie K. Washington, Sarah S. Gascon, Gretchen D. Oliver, FACSM. Auburn University, Auburn, AL.
(No relationships reported)

Board #256 | 3:30 PM - 5:00 PM
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Handedness (right Or Left Handed) Effect On Bilateral Transfer To Non-Dominant Hand
Laura Laviolette, Patricia Bauer, Renee Jeffreys-Heil. Florida Gulf Coast University, Fort Myers, FL. (Sponsor: Mitchel L. Cordova, FACSM)
Email: rnejfheil@fgcu.edu
(No relationships reported)

Board #257 | 3:30 PM - 5:00 PM
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The Physiological Responses Of A Mandibular Repositioning Mouthguard And Their Effects On Athletic Performance
Ricardo Martins, Patrick Girouard, Evan Elliott, Said Mekary. Acadia University, Wolfville, NS, Canada.
Email: said.mekary@acadiau.ca
(No relationships reported)

Board #258 | 3:30 PM - 5:00 PM
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Inspiratory Muscle Performance is Significantly Related to Agility and Speed in Collegiate Tennis Players
Magn F. Formiga, Marlon L. Wong, Luis A. Feigenbaum, Anthony A. Musto, Michele A. Raya, Robyn P. Rice, Lacey Scrima, Matthew T. Kuik, Lawrence P. Cahalin. University of Miami, Miami, FL. (Sponsor: Dr. Thomas Best, FACSM)
Email: magnof@miami.edu
(No relationships reported)

Board #259 | 3:30 PM - 5:00 PM
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An Analysis of Governed vs Different Focal Points on Vertical Jump Performance in Males
Christopher Carver, Andy Bosak, Austin Smith, Jon Houck, Matthew Sokoloski, Jared Feister. Liberty University, Lynchburg, VA. (Sponsor: James Schoffstall, FACSM)
Email: ccarver3@liberty.edu
(No relationships reported)

Board #260 | 3:30 PM - 5:00 PM
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The Effect of Sport Specific, Governed, and Non-Controlled Focal Point on Female Vertical Jump Performance
Robert T. Sanders, Andy Bosak, Christopher Carver, Austin Smith, Jonathan Houck, Matthew Sokoloski, Jared Feister. Liberty University, Lynchburg, VA. (Sponsor: James Schoffstall, FACSM)
(No relationships reported)

Board #261 | 3:30 PM - 5:00 PM
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Is Breakthrough Power an Effective Assessment of Team Performance of University Rugby Football?
Masanori Takemura1, Koji Kurita2, Setsuo Komatsu3, Artij Banerjee4, Hayato Yamamoto5, Mitsaharu Kaya6, Junzo Tsujita7.
1Ichibashi Clinic, Kobe, Japan. 2Physical Conditioning Production, Osaka, Japan. 3Tenri University Rugby Football Club, Tenri, Japan. 4Amagasaki-city Board of Education, Amagasaki, Japan. 5Yamamoto Trainers Project, Kyoto, Japan. 6Hyogo University of Health Science, Kobe, Japan. 7Institute of Health & Sports Medical Science, Osaka, Japan.
Email: masa_takemura27@yahoo.co.jp
(No relationships reported)

Board #262 | 3:30 PM - 5:00 PM
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Relationships Between Squat Strength, Velocity, And 40-yard Dash Time In College Softball And Football Players
Michael F. Carter, Lindy M. Rossow, Christopher A. Fahs. Lindenwood University Belleville, Belleville, IL. (Sponsor: Michael G. Beriben, FACSM)
(No relationships reported)

Board 263 | 3:30 PM - 5:00 PM
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Carbohydrate Mouth Rinsing Procedure during Repeated-sprints Exercise in Fasted State: Effects on Physical and Cognitive Performance
Karim Chamari1, Anissa Cherif1, Romain Meeusen, FACSM2, Joong G. Bemben, FACSM.
1Centre Hospitalier de l’Université de Montréal, Montréal, QC, Canada. 2University of Miami, Coral Gables, FL. (Sponsor: Mitchel L. Cordova, FACSM)
Email: rnejfheil@fgcu.edu
(No relationships reported)

Board #264 | 3:30 PM - 5:00 PM
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Difference in Power Measures Across Age Cohorts
Matthew S. Stone1, Michelle Gray1, Emily Janssen2. 1University of Arkansas, Fayetteville, AR. 2University of Kansas Medical Center, Kansas City, KS.
Email: mss06@email.uka.edu
(No relationships reported)
Board #281
3:30 PM - 5:00 PM
Relationships between Maximal and Rapid Velocity Characteristics of the Leg Extensors and Vertical Jump Performance
Jose G. Pineda, Ty B. Palmer. Texas Tech University, Lubbock, TX. (Sponsor: C. Roger James, FACSM) (No relationships reported)

Board #282
3:30 PM - 5:00 PM
Determining the Impact of Anthropometric Factors on Rock Climbing Performance
Scott R. Richmond, Ryan T. Mitchell, Thiornas S. Altema, Hugh M. Gibson. 1Lindenwood University, St. Charles, MO. 2Missouri State University, Springfield, MO. Email: SRichmond@lindenwood.edu (No relationships reported)

Board #283
3:30 PM - 5:00 PM
Comparing Balance and Power to Baseball Throwing Velocity in Collegiate Baseball Pitchers
Jason V. Slack, Kyle Valgardson, Michael Bohne, Andrew Creer. Utah Valley University, Orem, UT. (Sponsor: Scott Drum, FACSM) Email: jason.slack@uvu.edu (No relationships reported)

Board #284
3:30 PM - 5:00 PM
Effects of Speed and Agility Training on Combine Performance in Young Male Athletes
Amelia A. Miramonti, Joel T. Cramer, FACSM, Nathaniel D.M. Jenkins, Zachary M. Gillen, Brianna D. McKay, Todd J. Leutzinger. 1University of Nebraska - Lincoln, Lincoln, NE. 2Oklahoma State University, Stillwater, OK. (Sponsor: Joel T. Cramer, FACSM) Email: amelia.miramonti@unl.edu (No relationships reported)

Board #285
2:00 PM - 3:30 PM
A Comparison of Infant Physical Activity in Daycare vs Homecare Environments
Kailey Snyder, Jung Min Lee, Danae Dinkel. University of Nebraska at Omaha, Omaha, NE. (Sponsor: Dustin Slivka, FACSM) Email: kaileysnyder@yahoo.com (No relationships reported)

Board #286
2:00 PM - 3:30 PM
Construct Validity And Test-retest Reliability Of The International Fitness Scale (ifis) In Colombian Children And Adolescents Aged 9-17.9 Years: The Fuprecol Study
Daniel H. Prieto-Benavidez, Robinson Ramirez-Velez, Jorge E. Correa-Bautista, Antonio Garcia-Hermoso. 1Centro de Estudios para la Medición de la Actividad Física «CEMA», Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogota, Bogota, Colombia. 2Laboratorio de Ciencias de la Actividad Física, el Deporte y la Salud, Universidad de Santiago de Chile, Santiago, Chile. Email: robinh640@hotmail.com (No relationships reported)

Board #287
2:00 PM - 3:30 PM
The Continuous Metabolic Syndrome Score, Physical Activity, and Inflammation in Adolescents
James A. Janssen, Nathaniel T. Berry, Lilly Shanahan, Zachary A. Kincaid, Jessica M. Dollar, Cheryl A. Lovelady, Susan D. Calkins, Susan P. Keane, Laurie Wideman, FACSM. 1UNCg, Greensboro, NC. 2University of Zurich, Zurich, Switzerland. (Sponsor: Laurie Wideman, FACSM) Email: jajansse@uncg.edu (No relationships reported)
Board #312 2:00 PM - 3:30 PM
Anthropometric Measures Are Associated with Canadian Agility and Movement Skill Assessment Scores
Kevin Belanger1, Mark S. Tremblay, FACSM2, Patricia E. Longmuir1, Joel Barnes1, Dwayne Sheehan2, Jennifer L. Copeland3, Sarah J. Woodruff4, Brenda Bruner5, Barbri Law1, Luc J. Martin1, Angela M. Kolen1, Michelle Stone1, Kristal Anderson1, Kirstin N. Lane1, Nathan Hall1, Melanie Gregg2, Travis J. Saunders1, Dany Macdonald3, Francois Trudeau4, Claude Dugas5. 1Children’s Hospital of Eastern Ontario Research Institute, Ottawa, ON, Canada. 2Mount Royal University, Calgary, AB, Canada. 3University of Lethbridge, Lethbridge, AB, Canada. 4University of Windsor; Windsor, ON, Canada. 5University of Toronto; North Bay, ON, Canada. 6Queen’s University, Kingston, ON, Canada. 7St. Francis Xavier University, Antigonish, NS, Canada. 8Dalhousie University, Halifax, NS, Canada. 9Camosun College, Victoria, BC, Canada. 10University of Prince Edward Island, Charlottetown, PE, Canada. 11Université du Quebec à Trois-Rivières, Trois-Rivières, QC, Canada. (No relationships reported)

Board #313 2:00 PM - 3:30 PM
The Relationship Between Fundamental Motor Skills and Physical Activity in College Age Students in Puerto Rico
L. Romero Maysonet1, M. Amaral-Figueroa2. 1Universidad de Puerto Rico, Recinto de Mayaguez, Mayaguez, Puerto Rico. 2Universidad de Puerto Rico, Rio Piedras Campus, San Juan, Puerto Rico. Email: lillianaromero@upr.edu (No relationships reported)

Board #314 2:00 PM - 3:30 PM
Physical Activity Levels In Preschool Children During Winter & Summer
Karín Helene Danielsen1, Gunnar E. Mathisen1, Jarle Stålesen2. 1UiT The artic University og Norway, Tromsø, Norway. 2University of Agder, Kristiansand, Norway. Email: karin.danielsen@uit.no (No relationships reported)

Board #315 2:00 PM - 3:30 PM
Changes in Sedentary Behaviour, Physical Activity and Body Mass Index in Schoolchildren: A 3-Year-Longitudinal Study
Amanda Santos1, Sandra Silva-Santos1, Michael Duncan1, Renata M. Willig1, Susana Vale1, Jorge Mota2. 1Faculty of Sport, University of Porto, Porto, Portugal. 2Coventry University, Coventry, United Kingdom. (No relationships reported)

Board #316 2:00 PM - 3:30 PM
Effect of a Lifetime Health and Fitness Class on College Students
Tiffany Young Klockziem1, Chinaro Kennedy1. 1Bethany Lutheran College, Mankato, MN. (No relationships reported)

Board #317 2:00 PM - 3:30 PM
Moderate to Vigorous Physical Activity during Recess and Physical Education by Gender and Body Fat
JAVIER A. HALL LOPEZ, PAULINA YESICA OCHOA. Autonomous University of Baja California, Mexicali, Baja California, Mexico. Email: javierhall@uabc.edu.mx (No relationships reported)

Board #318 2:00 PM - 3:30 PM
Effects Of Moderate To Vigorous Program On Vo2max And Body Fat In Overweight Children
PAULINA OCHOA, JAVIER A. HALL. Autonomous University of Baja California, Mexicali, Baja California, Mexico. Email: pochoa@uabc.edu.mx (No relationships reported)

Board #319 2:00 PM - 3:30 PM
The Relationship between Sit & Play and Gross Motor Coordination in Preschoolers
Sandra Silva-Santos1, Amanda Santos1, Michael Duncan1, Susana Vale1, Jorge Mota2. 1University of Porto. Faculty of Sport, Porto, Portugal. 2Coventry University, Coventry, United Kingdom. (No relationships reported)

Board #320 2:00 PM - 3:30 PM
Postpartum Mothers’ Physical Activity & Sleep: A Comparison of Overweight/Obese and Normal Weight Mothers
Shane Warehime, Kailey Snyder, Jung-Min Lee, Danae Dinkel. University of Nebraska at Omaha, Omaha, NE. (Sponsor: Dustin Silvia, FACSM) (No relationships reported)

Board #321 2:00 PM - 3:30 PM
Factors Associated With Household And Job Physical Activity In Low-income Pregnant Women: Ecological Perspective
Alicia B. Stannard1, Lanay M. Mudd, FACSM2, James M. Pivarnik3, Jean Kerver4, Lorraine Weatherpoon5. 1Sacred Heart University, Fairfield, CT. 2National Center for Complementary and Integrative Health, Bethesda, MD. 3Michigan State University, East Lansing, MI. Email: stannarda@sacredheart.edu (No relationships reported)

Board #322 2:00 PM - 3:30 PM
The Relationships Among Social Support and Self-Efficacy on Physical Activity during Pregnancy
Ashley E. Boggs, Rebecca A. Schlaff, Meghan Baruth, Samantha Deere. Saginaw Valley State University, University Center, MI. Email: aeboggs@svsu.edu (No relationships reported)

Board #323 2:00 PM - 3:30 PM
Why are Pregnant Women Physically Active or not?
Karine M. Owe1, Hanne L. Børsheim2, Eva C. Diaz Fuentes2, Aline Andres1, Kartik Shankar1, Elisabet M. Willig1, Michael W. Deere. 1University of Bergen, Bergen, Norway. 2National Center for Complementary and Integrative Health, Bethesda, MD. (No relationships reported)

Board #324 2:00 PM - 3:30 PM
The Effects of Exercise Training on Cardiorespiratory Fitness in Obese Sedentary Pregnant Women
Ashley M. Glenn1, Lora M. Caudill1, Hanae S. Boudet4, Hechmi Toumi5. 1Best, FACSM) (No relationships reported)

Board #325 2:00 PM - 3:30 PM
Are There Benefits Of Physical Activities Centered On The Trunk For Pregnant Women?
Eric Watelin1, Antonio Pinti2, Rachael Doya2, Cyril Garnier3, Samuel Boudet3, Hechmi Toumi3. 1Université Lille Nord de France, Lille, France, Orleans, France. 2Universities Lille, Orleans, France. 3CNRS, UMR CNRS 8201, Valenciennes, France, Valenciennes, France. 4Université Lille Nord de France, Lille, France, Lille, France. "Service de Rhumatologie, Centre hospitalier régional d’Orléans. Orléans University, Orleans, France. (Sponsor: Thomas Best, FACSM) Email: hechmi.toumi@univ-orleans.fr (No relationships reported)
Board #326 2:00 PM - 3:30 PM
Pregnancy Physical Activity Beliefs and Attitudes in a Non-pregnant Population
Mallory R. Marshall, 35229, Katie Hammond, Christian Watts, Caroline Ellis, Bailey Gray, Emily Stallings, John Petrella, FACSM. Samford University, Birmingham, AL.
Email: mmmarshall@samford.edu
(No relationships reported)

Board #327 2:00 PM - 3:30 PM
Associations Of DXA-derived Appendicular Lean And Fat-Free Adipose Tissue Mass With A Single Forearm Ultrasound Image
Takashi Abe1, Jeremy P. Loenneke2, Robert S. Thiebaud3, Eiji Fujita4, Takuya Akamine5, Mark Loftin, FACSM6. 1National Institute of Fitness and Sports in Kanoya, Kanoya, Japan. 2The University of Mississippi, Oxford, MS. 3Texas Wesleyan University, Fort Worth, TX. (Sponsor: Mark Loftin, FACSM) Email: tabe@nifs.k.ac.jp
(No relationships reported)

Board #328 2:00 PM - 3:30 PM
Ultrasound Imaging Before and After Bilateral Tenotomy in a Collegiate Basketball Player: A Case Study
Scott K. Crawford, Aaron J. Engel, Greg R. Bashford, Jack W. Ramsone, FACSM. University of Nebraska-Lincoln, Lincoln, NE. (No relationships reported)

Board #329 2:00 PM - 3:30 PM
Diagnostic Ultrasound Imaging In Assessing Medial Elbow Joint Space In College Baseball Pitchers
Shawn D. Felton, Arie J. van Duijn, Eric Shamus, Mitchell L. Cordova, FACSM. Florida Gulf Coast University, Fort Myers, FL. (Sponsor: Mitchell L. Cordova, FACSM) Email: sfelton@fgcu.edu
(No relationships reported)

Board #330 2:00 PM - 3:30 PM
Assessing UCL Width during Valgus Load for College Baseball Pitchers using Ultrasound Imaging
Arie J. van Duijn, Shawn D. Felton, Eric Shamus, Brandon Smith, Mitchell L. Cordova, FACSM. Florida Gulf Coast University, Fort Myers, FL. (Sponsor: Mitchell L. Cordova, FACSM) Email: avanduijn@fgcu.edu
(No relationships reported)

Board #331 2:00 PM - 3:30 PM
Epidemiological Study of Achilles Tendon Morphology Using Ultrasound Tissue Characterization Technology
Angela R. Lucero, Laura E. Stanley, Madison F. Kennedy, Quefeng Li, Mark Dyson, David J. Berkoff. UNC Chapel Hill, Chapel Hill, NC. (No relationships reported)

Board #332 2:00 PM - 3:30 PM
Micro-vascular Blood Flow During Post-Occlusive Reactive Hyperemia Assessed By Diffuse Correlation Spectroscopy
Kaylin D. Didier, Shane M. Hammer, Andrew M. Alexander, Jacob T. Caldwell, Shelbi L. Sutterfield, Carl J. Ade, Thomas J. Barstow, FACSM. Kansas State University, Manhattan, KS. (Sponsor: Thomas J. Barstow, FACSM) Email: kaylind@ksu.edu
(No relationships reported)

Board #333 3:30 PM - 5:00 PM
Sugar-Sweetened Beverages And Short-duration Exercise On Glycemic Response And Subjective Appetite In Young Boys
Julia O. Totosy de Zepetnek, Kerry Miller, Melissa Da Silva, Nick Bellisimo. Ryerson University, Toronto, ON, Canada. Email: jtotosy@ryerson.ca
(No relationships reported)

Board #334 3:30 PM - 5:00 PM
Self-monitoring As A Predictor For Weight Loss In A Family-based Pediatric Obesity Treatment Program
Ava Coughlin, Kate Heelan, FACSM, Todd Bartee. University of Nebraska at Kearney, Kearney, NE. Email: coughlinat@opers.unl.edu
(No relationships reported)

Board #335 3:30 PM - 5:00 PM
Effects Of Physical Exercise On The Modulation Of Aquaglyceroporin 7 From Visceral Adipose Tissue
Jorge Beleza, Silvia Roche-Rodrigues, Inês O. Gonçalves, António Ascensão, José Magalhães. Faculty of Sports, University of Porto, Porto, Portugal.
(No relationships reported)

Board #336 3:30 PM - 5:00 PM
Effects Of Intermittent Periods Of Severe Negative Energy Balance On Weight Maintenance During US Special Operations Forces Training
John J. Sepowitz, Nicholas J. Armstrong, Stefan M. Pasiakos, FACSM. USARIEM, Natick, MA. (Sponsor: Stefan M Pasiakos, FACSM) Email: avaduijn@fgcu.edu
(No relationships reported)

Board #337 3:30 PM - 5:00 PM
Retrospective Analysis Of Weight Loss Relative To Protein Intake During Short-term Exercise Training In Women
Conrad P. Earnest, FACSM1, Brittanie Lockard1, Claire Baetge2, Mike Greenwood2, Richard B. Kreider, FACSM3,4. 1Texas A&M University, College Station, TX. 2University of Texas at San Antonio, San Antonio, TX.
(No relationships reported)

Board #338 3:30 PM - 5:00 PM
Effect Of Fat-sugar Snacking, With And Without Exercise Training, On Body Composition And Cardiometabolic Fitness
Wesley J. Tucker1, Catherine L. Jarrett2, Andrew C. D’Lugos2, Jared M. Dickinson2, Siddhartha S. Angadi2, Glenn A. Gaesser, FACSM2,3. 1University of Texas at Arlington, Arlington, TX. 2Arizona State University, Phoenix, AZ. (Sponsor: Glenn Gaesser, FACSM) Email: jenifer.copeland@uleth.ca
(No relationships reported)

Board #339 3:30 PM - 5:00 PM
Dose Response Effect of a Whey Protein on Appetite Profile, Energy Metabolism and Intake
Svetlana Nepocatych, Caroline E. Melson, Takudzwa A. Madzima. Elon University, Burlington, NC. (No relationships reported)

Board #340 3:30 PM - 5:00 PM
Sex Differences In Total Pyy And Glp-1 After Moderate-intensity Continuous And Sprint Interval Cycling Exercise
Jennifer L. Copeland1, Logan K. Townsend2, Jillian Hallworth1, Jon Duan1, Tom J. Hazell1. 1University of Lethbridge, Lethbridge, AB, Canada. 2University of Guelph, Guelph, ON, Canada. 3Wilfred Laurier University, Waterloo, ON, Canada. Email: jennifer.copeland@uleth.ca
(No relationships reported)

Board #341 3:30 PM - 5:00 PM
Weight Control
American College of Sports Medicine

F-66 Free Communication/Poster - Weight Control
Friday, June 2, 2017, 1:00 PM - 6:00 PM
Room: Hall F

Board #333 3:30 PM - 5:00 PM
Sugar-Sweetened Beverages And Short-duration Exercise On Glycemic Response And Subjective Appetite In Young Boys
Julia O. Totosy de Zepetnek, Kerry Miller, Melissa Da Silva, Nick Bellisimo. Ryerson University, Toronto, ON, Canada. Email: jtotosy@ryerson.ca
(No relationships reported)

Board #334 3:30 PM - 5:00 PM
Self-monitoring As A Predictor For Weight Loss In A Family-based Pediatric Obesity Treatment Program
Ava Coughlin, Kate Heelan, FACSM, Todd Bartee. University of Nebraska at Kearney, Kearney, NE. Email: coughlinat@opers.unl.edu
(No relationships reported)

Board #335 3:30 PM - 5:00 PM
Effects Of Physical Exercise On The Modulation Of Aquaglyceroporin 7 From Visceral Adipose Tissue
Jorge Beleza, Silvia Roche-Rodrigues, Inês O. Gonçalves, António Ascensão, José Magalhães. Faculty of Sports, University of Porto, Porto, Portugal.
(No relationships reported)

Board #336 3:30 PM - 5:00 PM
Effects Of Intermittent Periods Of Severe Negative Energy Balance On Weight Maintenance During US Special Operations Forces Training
John J. Sepowitz, Nicholas J. Armstrong, Stefan M. Pasiakos, FACSM. USARIEM, Natick, MA. (Sponsor: Stefan M Pasiakos, FACSM) Email: avaduijn@fgcu.edu
(No relationships reported)

Board #337 3:30 PM - 5:00 PM
Retrospective Analysis Of Weight Loss Relative To Protein Intake During Short-term Exercise Training In Women
Conrad P. Earnest, FACSM1, Brittanie Lockard1, Claire Baetge2, Mike Greenwood2, Richard B. Kreider, FACSM3,4. 1Texas A&M University, College Station, TX. 2University of Texas at San Antonio, San Antonio, TX.
(No relationships reported)

Board #338 3:30 PM - 5:00 PM
Effect Of Fat-sugar Snacking, With And Without Exercise Training, On Body Composition And Cardiometabolic Fitness
Wesley J. Tucker1, Catherine L. Jarrett2, Andrew C. D’Lugos2, Jared M. Dickinson2, Siddhartha S. Angadi2, Glenn A. Gaesser, FACSM2,3. 1University of Texas at Arlington, Arlington, TX. 2Arizona State University, Phoenix, AZ. (Sponsor: Glenn Gaesser, FACSM) Email: jenifer.copeland@uleth.ca
(No relationships reported)

Board #339 3:30 PM - 5:00 PM
Dose Response Effect of a Whey Protein on Appetite Profile, Energy Metabolism and Intake
Svetlana Nepocatych, Caroline E. Melson, Takudzwa A. Madzima. Elon University, Burlington, NC. (No relationships reported)

Board #340 3:30 PM - 5:00 PM
Sex Differences In Total Pyy And Glp-1 After Moderate-intensity Continuous And Sprint Interval Cycling Exercise
Jennifer L. Copeland1, Logan K. Townsend2, Jillian Hallworth1, Jon Duan1, Tom J. Hazell1. 1University of Lethbridge, Lethbridge, AB, Canada. 2University of Guelph, Guelph, ON, Canada. 3Wilfred Laurier University, Waterloo, ON, Canada. Email: jennifer.copeland@uleth.ca
(No relationships reported)
Board #341 3:30 PM - 5:00 PM
12-Week Treadmill Program Elicits Low Energy Availability Without Changes in Serum Testosterone in Male Rats
Lyra R. Clark, Thomas Wilson, Michael Dellogono, Erin Chenette. University of Massachusetts Lowell, Lowell, MA. (No relationships reported)

Board #342 3:30 PM - 5:00 PM
The Effect of Increased Water Intake on Food Consumption
Briana McCloskey1, Naomi McKay2, Jennifer Temple2. Simpson College, Indianola, IA. (No relationships reported)

Board #343 3:30 PM - 5:00 PM
Effects of Moderate Consumption of Non-Nutritive Sweeteners on Glucose Tolerance and Body Composition in Rats
Ashley P. Tovar, John C. Young, FACSM, Debra Tacad, Tara Kenny, Laura Kruskall, FACSM, James Navalta, FACSM. University of Nevada Las Vegas, Las Vegas, NV. (Sponsor: John C. Young, FACSM) (No relationships reported)

Board #344 3:30 PM - 5:00 PM
Evaluation of Weight Loss Advice from Pharmacists and Supplement Retailers
KateLynn C. Kletzli, Tianna N. Wikert, Amy D. Rickman, FACSM, Jeff S. Lynn. Slippery Rock University, Slippery Rock, PA. (Sponsor: Amy Rickman, FACSM) (No relationships reported)

Board #345 3:30 PM - 5:00 PM
Awareness Levels of the Misuse of the 3500 Calorie Rule Predicting Long Term Weight Loss
Laurie Millican, FACSM, Lauren Pringle. Univ. of Massachusetts Boston, Boston, MA. (No relationships reported)

Board #346 3:30 PM - 5:00 PM
Assessment of the Relationship Between Macronutrient Intake and Browning of White Fat in Adult Males
Andres E. Carrillo1, Petros C. Dinas2, Angelica Valente3, Marnie M Forte1, Rafael C. Gaspar1, Victor R. Mulho1, Dennys E. Cintra1, José R. Pauli1, Clemence Blouet3, Antonio Vidal-Puig4, Eduardo R. Ropelle1. 1Vrije Universiteit Brussel, Brussels, Belgium. 2University of Padova, Padova, Italy. 3University of Thessaly, Trikala, Greece. 4University of Cambridge Metabolic Research Laboratories WellCome Trust-MRC Institute of Metabolic Science, Cambridge, United Kingdom. (No relationships reported)

Board #347 3:30 PM - 5:00 PM
Liposomal Encapsulated Alpha-Lipoic Acid, Benfotiamine and Curcumin Prevent Overfeeding Mediated Increases in Waist Circumference
Nathan C. Grimm, Jeremy Theisen, Timothy Brodsky, Simon Fredericks, Jesse R. Wilburn, Britney C. Syl, Gregory P. Dooley, Christopher Bell. Colorado State University, Fort Collins, CO. (Sponsor: Raoul F. Reiser II, FACSM) Email: nathan.grimm@colostate.edu (No relationships reported)

Board #348 3:30 PM - 5:00 PM
The Effect Of High-intensity Interval Exercise In Hypoxia On Appetite Regulations In Female Athletes
Chihiro Kojima, Nobukazu Kasai, Aya Ishibashi, Yukako Murakami, Kurniko Ebi, Kazushige Goto. Ritsumeikan University, Shiga, Japan. (Sponsor: Robert R Kraemer, FACSM) Email: sh0007ek@ed.ritsumei.ac.jp (No relationships reported)

Board #349 3:30 PM - 5:00 PM
Unexpected Weight Gain Following Long Term Increased Mvpa Is Linked To Elevated Respiratory Quotient
Robin P. Shook1, Gregory A. Hand, FACSM2, John Thyfault, FACSM3, Tarin Phillips5, Steven N. Blair, FACSM5. 1Children’s Mercy Hospital, Kansas City, MO. 2University of West Virginia, Morgantown, WV. 3University of Kansas Medical Center, Kansas City, MO. 4Iowa State University, Ames, IA. 5University of South Carolina, Columbia, SC. (Sponsor: Steven Blair, FACSM) Email: rpshook@cmb.edu (No relationships reported)

Board #350 3:30 PM - 5:00 PM
Hypoxia-Inducible Factor 2 Alpha Mediates Exercise-Induced Hypothalamic Glucose Sensing
Vagner Ramon R. Silva1, Carlos K. Katsashima2, Luciene Lenhare2, Carla G B Silva2, Rafael L. Camargo2, André V. Cordeiro3, Lucas D M Forte4, Rafael C. Gaspar2, Victor R. Mulho1, Dennys E. Cintra1, José R. Pauli1, Clemence Blouet3, Antonio Vidal-Puig4, Eduardo R. Ropelle1. 1Faculdade de Ciências Aplicadas - UNICAMP, Limeira, Brazil. 2Faculdade de Ciências Médicas - UNICAMP, Campinas, Brazil. 3University of Cambridge Metabolic Research Laboratories WellCome Trust-MRC Institute of Metabolic Science, Cambridge, United Kingdom. (No relationships reported)

Board #351 3:30 PM - 5:00 PM
The Effects of a Clinical Outpatient Behavioral and Nutritional Intervention Program on Body Mass
Chelsey R. Gegg1, Kim D. Eftink1, Christa R. Hudson1, Candice A. O’Hare4, Andrea D. Dodge2, Britney L. Essary2, Amanda C. Buenderman2, Jason D. Waggener2. 1Southeast Missouri State University, Cape Girardeau, MO. (No relationships reported)

Board #352 3:30 PM - 5:00 PM
Do Weight Concerns Put Female Prisoners at Risk for Re-Offending?
Anne R. Lindsay, Sara C. Velasquez. University of Nevada, Reno, Las Vegas, NV. (Sponsor: Melinda Manore, FACSM) Email: alindsay@unr.edu (No relationships reported)

Board #353 3:30 PM - 5:00 PM
Association Between Health-related Quality Of Life And Weight Loss, Fitness, And Physical Activity
Sara J. Kovacs, Renee J. Rogers, Meghan R. McGuire, John M. Jakicic, FACSM. University of Pittsburgh, Pittsburgh, PA. (Sponsor: John M Jakicic, FACSM) Email: sjk89@pitt.edu (No relationships reported)
The current science behind strength and conditioning research for athletic performance, body building, strength training, and clinical venues has revealed a role for modification of ribosomes—the cellular substructures that translate mRNA into protein. To build more muscle reflects a need to expand the available ribosomes within active tissues to the point that ribosomal biogenesis, or creation of more ribosomes, is an intermediate goal of strategic training and dietary applications. This session directed to practicing exercise professionals will discuss the basics of ribosome biology, what they are, why they are important and how they’re made in active skeletal muscle. Specific applications will be discussed relative to acute and chronic exercise applications, nutritional basics relative to ribosomal biogenesis, and new research horizons. Additional discussion will be directed to understanding the mechanistic underpinnings of ribosome construction and muscular outcomes.

Michael Roberts. Auburn University, Auburn, AL.
Reported Relationships: M. Roberts: Contracted Research - Including Principle Investigator; Extramural funding contracts through Applied Sports Science Institute (Tampa, FL) and MusclePharm Sports Science Institute (Denver, CO).

John J. McCarthy, University of Kentucky, Lexington, KY.
(No relationships reported)

Alterations in skin blood flow (SkBF) control during heat stress are commonly interpreted to have a profound influence of thermoregulatory capacity. Yet its differential effect on core-to-skin and skin-to-environment heat transfer, as well as the meaning of the various methods used to measure and express SkBF, is often poorly understood. Part 1 of this colloquium (Dr. Jay) will assess the existing knowledge of the biophysical impacts of SkBF alterations on human heat balance. Part 2 (Prof. Crandall) will discuss how the selected method for measuring SkBF and normalizing derived values should be dependent on the specific question under examination.

Ollie Jay, FACSM. University of Sydney, Sydney, Australia.
(No relationships reported)

Craig Crandall, FACSM. JEEM, University of Texas Southwestern Medical Center, Dallas, TX.
(No relationships reported)

1. The lecture begins with a complete and comprehensive review of the recent literature that defines what we have learned and what we still need to know about the topic of “The Essential Role of a Hip Evaluation in the Diagnosis and Management of PFPS”. Participants will be able to identify any weak hip muscle groups and will know how to test each group on PE. Participants will instruct patients on doing effective strengthening exercises and discuss the relationship between hip weakness most often found with PFPS compared to other causes of Anterior Knee Pain that present without hip weakness.

E. James Swenson Jr., FACSM. University of Rochester, Rochester, NY.
(No relationships reported)
### G-08  Highlighted Symposium - The Role of Exercise in Neuroplasticity: Intervention to Manage Stress and Promote Well-Being

**Saturday, June 3, 2017, 9:00 AM - 11:00 AM**  
**Room: 201**  

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Chair</th>
<th>Location</th>
<th>Speaker(s)</th>
<th>Relationship</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3460</td>
<td>9:00 AM - 9:10 AM</td>
<td>Chair: Erica M. Taylor, FACSM. Delaware State University, Dover, DE.</td>
<td>Room: 201</td>
<td>(No relationships reported)</td>
<td></td>
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<tr>
<td>3461</td>
<td>9:00 AM - 9:10 AM</td>
<td>Co-Chair: Steven J. Petruzzello, FACSM. University of Illinois at Urbana-Champaign, Urbana, IL.</td>
<td>Room: 201</td>
<td>(No relationships reported)</td>
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<tr>
<td>3462</td>
<td>9:10 AM - 9:40 AM</td>
<td>Keynote - Integrating Stress, Cognition, and Emotion in Exercise Interventions</td>
<td>Room: 201</td>
<td>Brandon L. Alderman. Rutgers University, New Brunswick, NJ.</td>
<td>(No relationships reported)</td>
<td></td>
</tr>
</tbody>
</table>
**Chair:** Erica M. Taylor, FACSM. Delaware State University, Dover, DE.  
**Co-Chair:** Steven J. Petruzzello, FACSM. University of Illinois at Urbana-Champaign, Urbana, IL.  
**Speaker(s):** Brandon L. Alderman. Rutgers University, New Brunswick, NJ.  
**Notes:** (No relationships reported) |}

### G-09  Symposium - Current Evidence on Cartilage Injury and Repair

**Saturday, June 3, 2017, 9:00 AM - 11:00 AM**  
**Room: 101**  

The session will consist of a case presentation highlighting the clinical use of fat-derived stem cells in the treatment of knee osteoarthritis. This will be followed by 2 talks, the first on the science behind use of mesenchymal stem cells for cartilage repair, followed by a discussion of genetic biomarkers of cartilage injury. A brief q & a session will complete the session.

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<th>Session</th>
<th>Time</th>
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<th>Location</th>
<th>Speaker(s)</th>
<th>Relationship</th>
<th>Notes</th>
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<tbody>
<tr>
<td>3466</td>
<td>9:00 AM - 9:10 AM</td>
<td>Chair: Thomas Best, FACSM. University of Miami Miller School of Medicine, Miami, FL.</td>
<td>Room: 101</td>
<td>(No relationships reported)</td>
<td></td>
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<tr>
<td>3467</td>
<td>9:10 AM - 9:20 AM</td>
<td>Treatment of Knee OA with Adipose Derived Stem Cells</td>
<td>Room: 101</td>
<td>Clifton L. Page. University of Miami Sports Medicine Institute, Coral Gables, FL.</td>
<td>(No relationships reported)</td>
<td></td>
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</tbody>
</table>
Several dietary supplements, such as creatine, beta-alanine and nitrate, have an evidence base supporting ergogenic effects on sports performance. The putative physiological and biological functions of these supplements, however, are also suggestive of significant therapeutic potential. With regards to performance, questions remain about how to individualise supplement use, how to approach periodisation, how to trial supplements and how to undertake risk/reward assessments. This symposium will commence with an overview of applied practices and approaches to supplementation, with the remaining talks addressing novel therapeutic actions of creatine, histidine containing dipeptides and nitrate.

**G-11 Symposium - Novel Applications for Current Dietary Supplements**
Saturday, June 3, 2017, 9:00 AM - 11:00 AM
Room: 103

The session will feature four speakers—each bringing a unique perspective—who possess medical & scientific backgrounds which will ensure that the latest evidenced-based information represents internationally recognized medical, scientific and practical expertise with regards to this critical appraisal on the benefits and detriments of ingesting too little and too much fluid during sport. The subjects of exertional heat illness (EHI), exertional-associated hypotension (EAH), and exercise-associated muscle cramping (EAMC) will be discussed. There will be time for a group discussion where the audience can explore 1) specific questions of fluid management and 2) potential areas of controversy.

**G-12 Symposium - Novel Computational Methods to Classify Sedentary Behavior and Physical Activity: Evaluating Progress and Building Consensus**
Saturday, June 3, 2017, 9:00 AM - 11:00 AM
Room: 302

New techniques to classify behaviors from accelerometers are now available. The new processes have demonstrated limitations in the prevailing cut points. There is reluctance to adopt the new techniques because they are complex, not standardized, and validity for population research is unknown. We will review classifiers for physiological and biological functions of these supplements, however, are also suggestive of significant therapeutic potential. With regards to performance, questions remain about how to individualise supplement use, how to approach periodisation, how to trial supplements and how to undertake risk/reward assessments. This symposium will commence with an overview of applied practices and approaches to supplementation, with the remaining talks addressing novel therapeutic actions of creatine, histidine containing dipeptides and nitrate.

**G-13 Symposium - Optimal Fluid Management for Sport Safety: What is the ‘Right’ Amount of Fluid for Athletes?**
Saturday, June 3, 2017, 9:00 AM - 11:00 AM
Room: 507
G-14  Thematic Poster - Biomechanics of Prolonged Running
Saturday, June 3, 2017, 9:00 AM - 11:00 AM
Room: 403

Chair: Allison H. Gruber, Indiana University Bloomington, Bloomington, IN.
(No relationships reported)

Board #1  9:00 AM - 11:00 AM
Effects of a Submaximal 30-Minute Run on Peak Tibial Acceleration in Novice Runners
Max R. Paquette1, Kris Cameli1, Douglas W. Powell1, Allison H. Gruber1, 1University of Memphis, Memphis, TN; 2Indiana University, Bloomington, IN. (Sponsor: D.S. Blaise Williams III, FACSM)
Email: mrpaquette@memphis.edu
(No relationships reported)

Board #2  9:00 AM - 11:00 AM
Lower Extremity Mechanical Energy Distribution Does Not Change Following A High-intensity Run
Michael P. McNally, Margaret E. Raabe, Ajit MW Chaudhari, FACSM, Ohio State University Wexner Medical Center, Columbus, OH.
Email: michael.mcnally@osumc.edu
(No relationships reported)

Board #3  9:00 AM - 11:00 AM
Hip Neuromechanics In Women With And Without Previous Iliotibial Band Syndrome During A 30-minute Run
Eric Foch1, John W. Westbrooks1, Claire E. Milner, FACSM. 1Central Washington University, Ellensburg, WA. 2Drexel University, Philadelphia, PA. (Sponsor: Clare E. Milner, FACSM)
Email: eric.foch@cwu.edu
(No relationships reported)

Board #4  9:00 AM - 11:00 AM
The Effect of Compression Tights on Muscle Vibration and Energy Expenditure during a High-Intensity Run
Hannah Harris, Margaret E. Raabe, Michael P. McNally, Ajit M.W. Chaudhari, FACSM, The Ohio State University, Columbus, OH.
Email: harris.2169@osumc.edu
(No relationships reported)

Board #5  9:00 AM - 11:00 AM
The Effect of Cushioned Insoles on Tibial Acceleration During Running
Anisa Rohilla, Natalie Turner, Jake Glazer, Ryan Smith, Dimitrios Katsavasilis, Creighton University, Omaha, NE. (Sponsor: Joan M Eckerson, FACSM)
Email: Anisa.Rohilla@creighton.edu
(No relationships reported)

Board #6  9:00 AM - 11:00 AM
Influence Of Step Rate Control On The Metabolic Demands Of Running In A Lower-body Positive Pressure Treadmill
Brendan J. Rickert, Sacred Heart University, Fairfield, CT. (Sponsor: Peter Ronai, FACSM)
Email: rickertb@sacredheart.edu
(No relationships reported)
American College of Sports Medicine

Board #8
9:00 AM - 11:00 AM
Psychological Impact Of 8-week CrossFit And Non-CrossFit Training Programs
April A. Wheeler, Tara M. Roedofs, Amanda L. Moelk, Jennifer L. Welch, Rebekah G. Ellerbusch, Trevor W. Froisig, Gabrielle S. Turcotte, Taylor K. Schmidt, Justin R. Geijer. Winona State University, Winona, MN. (No relationships reported)

G-16 Thematic Poster - Muscle Physiology
Saturday, June 3, 2017, 9:00 AM - 11:00 AM
Room: 304

Chair: Peter Hosick. Montclair State University, Montclair, NJ. (No relationships reported)

Board #1
9:00 AM - 11:00 AM
Mechanomyographic Responses to Blood Flow Restricted, Fatiguing Isometric Muscle Actions
Jakob J. Rosengarten, Jared W. Coburn, FACSM, Lee E. Brown, FACSM, Andrew J. Galpin. Cal State Fullerton, Fullerton, CA. (Sponsor: Jared W Coburn, FACSM)
Email: jakoblpc@googlemail.com
(No relationships reported)

Board #2
9:00 AM - 11:00 AM
Inhibitory Feedback During Fatiguing Contractions Is Similar In Males and Females.
Bryce Campbell, Margaret Gillespie, Alia Yasen, Anita Christie. University of Oregon, Eugene, OR. (Sponsor: David Gabriel, FACSM)
(No relationships reported)

Board #3
9:00 AM - 11:00 AM
Time-Related Changes in Firing Rate Behavior is Partially Explained by Potentiation
Jonathan D. Miller, Trent J. Herda, Michael A. Trevino, Adam J. Sterczala, Anthony B. Ciccone. University of Kansas, Lawrence, KS. (No relationships reported)

Board #4
9:00 AM - 11:00 AM
Simultaneous Measurement of Perfusion and Diffusive Oxygen Transport During Incremental Forearm Exercise
Shane M. Hammer, Andrew M. Alexander, Kaylin D. Didier, Joshua R. Smith, Jacob T. Caldwell, Shelti L. Sutterfield, Carl J. Ade, Thomas J. Barstow, FACSM. Kansas State University, Manhattan, KS. (No relationships reported)

Board #5
9:00 AM - 11:00 AM
Evaluation Of ES-induced Fatigue In Relation To Muscle Size And Fiber Recruitment: A Pilot Study
Maria Vromans, Pouran D. Faghi, FACSM, Magdalena Wegryniak, Sarina Moghadam. University of Connecticut, Storrs, CT. (Sponsor: Pouyan D. Faghi, FACSM)
Email: maria.vromans@uconn.edu
(No relationships reported)

Board #6
9:00 AM - 11:00 AM
High Threshold Motor Units Are Eventually Recruited During Low Force Efforts To Volitional Fatigue
Jim R. Potvin1, Andrew J. Fuglevand2. 1McMaster University, Hamilton, ON, Canada. 2University of Arizona, Tucson, AZ. (Sponsor: Stuart Phillips, FACSM)
Email: jim.potvin@gmail.com
(No relationships reported)

Board #7
9:00 AM - 11:00 AM
Muscle Specific Endurance of the Lower Back Erectors using Electrical Twitch Mechanography
Kevin K. McCully, FACSM1, Caio Morales1, Sahil V. Patel2, Max Green2, T. Bradley Willingham1. 1University of Georgia, Athens, GA. 2UGA-AU Medical Partnership, Athens, GA.
Email: mccully@uga.edu

Board #8
9:00 AM - 11:00 AM
Clinical Assessment Of Muscle Endurance
Thomas B. Willingham, Kevin McCully, FACSM. University of Georgia, Athens, GA. (Sponsor: Kevin McCully, FACSM)
(No relationships reported)

Chair: Bryan Taylor. University of Leeds, Leeds, United Kingdom. (No relationships reported)

Board #1
9:00 AM - 11:00 AM
Peripheral Vascular Pulsatility in Heart Failure Patients with Continuous Flow Centrifuge and Axial Left Ventricular Assist Devices: The Effect of Pump Speed.
Jay R. Hydren, Andrew C. Kithas, Soong Hun Park, Omar Weyer-Pinzon, Craig H. Selzman, William H. Perry, Camila A.S. Vargas, Stavros G. Drakos, Russell S. Richardson. University of Utah, Salt Lake City, UT. (No relationships reported)

Board #2
9:00 AM - 11:00 AM
Postural Induced Changes in Plasma Volume Inversely Influences Plasma Nitrite Concentration in Humans
Luke Liddle1, Chris Monaghan1, Luke C. McIlvenna1, Mia C. Burleigh1, David J. Muggeridge1, Chris Easton1. 1University of the West of Scotland, Hamilton, United Kingdom. 2Victoria University, Melbourne, Australia. 3University of Strathclyde, Glasgow, United Kingdom. (Sponsor: Professor Yannis Pitsiladis, FACSM)
Email: luke.liddle@uws.ac.uk
(No relationships reported)

Board #3
9:00 AM - 11:00 AM
Effects of Prior Aerobic Exercise on Flow Mediated Dilation Responses to Prolonged Sitting in Healthy Men
Robert M. Duguid, Craig W. Berry, Kevin D. Ballard. Miami University, Oxford, OH. (Sponsor: Helaine Alessio, FACSM)
Email: duguidrm@miamioh.edu
(No relationships reported)

Board #4
9:00 AM - 11:00 AM
Comparison Of Blood Flow Characteristics Before, During, And After High-intensity Interval And Moderate-intensity Continuous Exercise
Brett B. Baughman, Stephanie D. Gagnon, Janie C. Unkefer, Kaiti A. Freeberg, Patricia Benedict, Brandon J. Sawyer. Point Loma Nazarene University, San Diego, CA. (Sponsor: Glenn A. Gaesser, FACSM)
Email: bbbaughman1215@pointloma.edu
(No relationships reported)

Board #5
9:00 AM - 11:00 AM
Eccentric Exercise And Microvascular Function: Protective Role Of Dietary Nitrate And Antioxidants?
Ryan G. Larsen1, Jens M. Thomsen1, Rogerio P. Hirata1, Jens B. Frøkjær1, Thomas Graven-Nielsen1. 1Aalborg University Hospital, Aalborg, Denmark. 2Aalborg University Hospital, Aalborg, Denmark. Email: rl@hst.aau.dk
(No relationships reported)

G-17 Thematic Poster - Vascular Function
Saturday, June 3, 2017, 9:00 AM - 11:00 AM
Room: 404

Chair: Ryan B. Liddell. University of California, Davis, CA. (No relationships reported)

Board #1
9:00 AM - 11:00 AM
Vasoconstriction And Cross-Bridge Cycling Inhibition Of Human Coronary Vasorelaxation To Sodium Nitroprusside: Role Of Vascular Nitric Oxide-Dependent And -Independent Pathways
Johannes K. Fichtner, Dominik E. Schattenlocher, Jörg B. Meyer, Alain J. Stengel, Peter P. Neumann. University of Berne, Berne, Switzerland. (Sponsor: Scotsdale H. Donnelly, FACSM)
(No relationships reported)

Board #2
9:00 AM - 11:00 AM
Eccentric Exercise And Microvascular Function: Protective Role Of Dietary Nitrate And Antioxidants?
Ryan G. Larsen1, Jens M. Thomsen1, Rogerio P. Hirata1, Jens B. Frøkjær1, Thomas Graven-Nielsen1. 1Aalborg University Hospital, Aalborg, Denmark. 2Aalborg University Hospital, Aalborg, Denmark. Email: rl@hst.aau.dk
(No relationships reported)

Board #3
9:00 AM - 11:00 AM
Eccentric Exercise And Microvascular Function: Protective Role Of Dietary Nitrate And Antioxidants?
Ryan G. Larsen1, Jens M. Thomsen1, Rogerio P. Hirata1, Jens B. Frøkjær1, Thomas Graven-Nielsen1. 1Aalborg University Hospital, Aalborg, Denmark. 2Aalborg University Hospital, Aalborg, Denmark. Email: rl@hst.aau.dk
(No relationships reported)

www.acsm.org
Clinical Case Slide - Cervical Spine
Saturday, June 3, 2017, 9:00 AM - 10:40 AM
Room: 406

G-18
Chair: Joseph Ihm, FACSM. Rehabilitation Institute of Chicago, Chicago, IL. (No relationships reported)

Discussant: Scott Laker. University of Colorado, Denver, CO. (No relationships reported)

Discussant: Matthew Sedgley. MedStar Ortho and Sports Medicine, Ellicott City, MD. (No relationships reported)

9:00 AM - 9:20 AM
Reoccurring Neck Injury in a College Football Player
Brian Toedebusch, Brian Davis, FACSM. University of California - Davis, Sacramento, CA. (No relationships reported)

9:20 AM - 9:40 AM
Differential Diagnosis of Quadriparesis in an Otherwise Healthy Adult Male by a Physical Therapist
Megan Knueger, Eric Reyes. Harris Health System, Houston, TX. Email: megan.knueger@harrishealth.org (No relationships reported)

9:40 AM - 10:00 AM
17 yo Football Player with Central Cord Syndrome after Negative Initial Neck Exam
Hersch Bhatia, Teri McCambridge. University of Maryland, Baltimore, MD. Towson Sports Medicine, Baltimore, MD. (No relationships reported)

10:00 AM - 10:20 AM
Neck Injury
Özlem G. Ülger, Aynur Demirel, Mehmet Yorubulu. Hacettepe University, Ankara, Turkey. Email: ozelguler@yahoo.com (No relationships reported)

10:20 AM - 10:40 AM
Sternocleidomastoid Injury - Rugby Union (15-players-a-side)

Clinical Case Slide - Medical Issues II
Saturday, June 3, 2017, 9:00 AM - 10:40 AM
Room: 402

G-19
Chair: Holly J. Benjamin, FACSM. University of Chicago, Chicago, IL. (No relationships reported)

Discussant: Sourav Poddar. University of Colorado Health Sciences Center, Denver, CO. (No relationships reported)

Discussant: Natalie Voskanian. UCSD Sports Medicine, San Diego, CA. (No relationships reported)

9:20 AM - 9:40 AM
Proximal Muscle Weakness in 10-year-old Female Gymnast
Peter Waller, David Lessman, Philip Skiba. Advocate Lutheran General Hospital, Park Ridge, IL. Email: pwaller189@gmail.com (No relationships reported)

9:40 AM - 10:00 AM
Not All Headaches Are Concussion Related
Jennifer Oberstar. University of Minnesota, Minneapolis, MN. (Sponsor: Steven Stovitz, FACSM) Email: ober0042@umn.edu (No relationships reported)

10:00 AM - 10:20 AM
Heat Illness- Running
José J. Correa, Anita M. Rivera-Brown, FACSM, William F. Micheo, FACSM. University of Puerto Rico School of Medicine, San Juan, Puerto Rico. Email: jjcorrea@cpucq.net (No relationships reported)

10:20 AM - 10:40 AM
Gastrointestinal - Track and Field
Katherine Langley, Jocelyn Gravlee. University of Florida, Gainesville, FL. Email: langleykj@ufl.edu (No relationships reported)

Tutorial Lecture - NASS Lecture: A Rational Approach to Rehabilitation of Low Back Pain in Athletes
Saturday, June 3, 2017, 9:00 AM - 9:50 AM
Room: 401

G-20
This session will discuss the evidence and best practice recommendations for treatment of the athlete with low back pain, including specific recommendations for physical therapy, discussion of efficacy of medications, and appropriate use of imaging and injections. Treatment of the athlete that fails to improve with the above conventional management will also be addressed.

3542 Chair: Leah G. Concannon. University of Washington, Seattle, WA. (No relationships reported)

3543 Discussant: Robert C. Cantu, FACSM. University of Washington, Seattle, WA. (No relationships reported)
We will provide an overview for management of several acute fractures encountered in adult athletes with updated information from last year’s session. Many fractures can be managed by the primary care clinician on the sideline and in the office, however, many training programs are not able to offer a large volume of formal instruction in this area. We will provide an overview of common fractures encountered, fundamentals of acute fracture care, general rules for managing fractures, and teaching pearls and pitfalls to avoid. We will use radiographs/pictures to visualize fractures and videos/demonstrations to show techniques to reduce displaced fractures or splint unstable fractures.

3544 Jack Spittler. University of Colorado, Denver, CO. (No relationships reported)
3545 Morteza Khodaee, FACSM. University of Colorado, Denver, CO. (No relationships reported)

The running athlete presents a unique challenge to sports medicine clinicians that can be difficult to evaluate with traditional exam techniques. This session will provide running specific evaluation tools to enable a clinician to recognize deficits that contribute to injury in this population. Participants will learn concentrated running history questions that help delineate injury risk including shoes, training & racing history, as well as athletic goals. The course will review the static and dynamic exam of the running kinetic chain. The course will review a focused functional exam as well as basic in-office gait analysis of the running athlete.

3546 Robert Wilder, FACSM. University of Virginia Runner’s Clinic, Charlottesville, VA. (No relationships reported)
3547 Siobhan Statuta. University of Virginia Runner’s Clinic, Charlottesville, VA. (No relationships reported)
3548 David J. Hryvniak, University of Virginia Runner’s Clinic, Charlottesville, VA. (No relationships reported)

The growth of the wearable technology sector has resulted in a number of instruments that are increasingly incorporated in research studies. Global positioning system (GPS) watches are common to use to monitor race pace and some devices incorporate accelerometer and gyroscope instruments to provide information on other biomechanical and physiological parameters such as stride rate, ground contact time, and vertical oscillation. A challenge of incorporating wearable technology devices in research studies is understanding what information sensor technology (e.g., accelerometers) is measuring, the limitations of the sensors, and how the sensor data output can be used in exercise science research.

3549 John A. Mercer, FACSM. University of Nevada, Las Vegas, Las Vegas, NV. (No relationships reported)
P242  Final Program

ACSM May 30 – June 3, 2017 Denver, Colorado

3555  Board #2  8:00 AM - 9:30 AM
Cannabis Use And Neurological Disease: An Alternative Therapy To Improve Neurological Disability?
John Harvey Kindred1, Gaigang Li2, Nathaniel B. Ketelhut3, Felix Proesl1, Brett W. Fling1, William R. Shafer1, Thorsten Rudroff, FACSM. 1Colorado State University, Fort Collins, CO. 2Banner Health, Greeley, CO. (Sponsor: Thorsten Rudroff, FACSM)
Email: jkindred@gmail.com
(No relationships reported)

3556  Board #3  8:00 AM - 9:30 AM
Identifying Politically Motivated Medical Withdrawals From International Competition
Peter A. Hamer, FACSM. Willamette University, Salem, OR.
Email: phammer@willamette.edu
(No relationships reported)

3557  Board #4  8:00 AM - 9:30 AM
Application of Environmental Sensors to a Military Combatives Training Environment
Tyler F. Rooks, Katie P. Logsdon, B. Joseph McEntire, Valeta Carol Chancey. U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL.
Email: tyler.f.rooks.civ@mail.mil
(No relationships reported)

3558  Board #5  8:00 AM - 9:30 AM
Assessment Of The Relationship Between Body Composition And Bioavailability Of Diclofenac Sodium In Healthy Volunteers
Andrea Naves1, Valden Capistrano Júnior2, Maria Elisabete Amaral de Morais3. 1VP Research Institute, São Paulo, Brazil. 2Federal University of Ceará, Ceará, Brazil. 3University of Ceará, Ceará, Brazil.
Email: kellencarvalho@hotmail.com
(No relationships reported)

3559  Board #6  8:00 AM - 9:30 AM
Reaction Time Assessment of Sickle Cell Anemia Children
Kellen Carvalho Visentin Marinello, Jake Carvalho Carneiro, Maria Claudia Cardoso Pereira, Valdinar de Araújo Rocha Junior, Flavia Vanessa Medeiros, Flavio Junker. Universidade de Brasília, Brasília, Brazil.
Email: kellen.carvalho@hotmail.com
(No relationships reported)

3560  Board #7  8:00 AM - 9:30 AM
Evaluating the Science for Physical Activity Policy
Email: alison.vaux-bjerke@hhs.gov
(No relationships reported)

3561  Board #8  8:00 AM - 9:30 AM
Updating The Physical Activity Guidelines For Americans: Priority Topics And Research-Related Issues
Emily Bhutani1, Katrina Piercey1, Sarah Provant1, Richard Troiano1, Alison Vaux-Bjerke1, National Cancer Institute, Bethesda, MD. 2Office of Disease Prevention and Health Promotion, Rockville, MD. (Sponsor: Janet Fulton, FACSM)
(No relationships reported)

3562  Board #9  8:00 AM - 9:30 AM
Promotion Of Nutrition Care By Australian Fitness Businesses: A Website Analysis
Katelyn Barnes, Lauren Ball, Ben Desbrow. Menzies Health Institute Queensland & Griffith University, Southport, Australia. (Sponsor: Professor Louise Burke, FACSM)
Email: k.barnes@griffith.edu.au
(No relationships reported)

ACSM 64th Annual Meeting

3563  Board #10  8:00 AM - 9:30 AM
Globalizing the ACSM Certified Personal Trainer Job Task Analysis: The Case Study of China
Melanie Poudevigne, FACSM1, Richard Cotton2, Yuri Feito, FACSM3, Rachelle Kappler4, Chris Pitsikoulis5. 1Clayton State University, Morrow, GA. 2American College of Sports Medicine, Indianapolis, IN. 3Kennesaw State University, Kennesaw, GA. 4University of Akron, Akron, OH. 5Aurora University, Aurora, IL.
Email: npoudevigne@gmail.com
(No relationships reported)

G-27  Free Communication/Poster - Chronic Disease and Nutrition
Saturday, June 3, 2017, 7:30 AM - 11:00 AM
Room: Hall F

3564  Board #11  8:00 AM - 9:30 AM
Influence of Ischemic Preconditioning on Glucose Tolerance in Obese and Overweight Adults
Simon P. Fredericks. Colorado State University, Fort Collins, CO. (Sponsor: Raoul Reiser II, FACSM)
(No relationships reported)

3565  Board #12  8:00 AM - 9:30 AM
Effects of a Sedentary vs. Active Lifestyle on Blood Glucose Uptake
Joohee Im, Abby Bogner, Kaitlyn Brandt, Hector Raya, Ciara Stanley, William (Turi) Braun, FACSM. Shippensburg University, Shippensburg, PA. (Sponsor: William A. Braun, FACSM)
Email: jooheeim@yahoo.com
(No relationships reported)

3566  Board #13  8:00 AM - 9:30 AM
Multiple Short Bouts Of Walking Activity Attenuate Blood Glucose Response In Obese Women
Mynor G. Rodriguez-Hernandez, Jeffrey Martin, David D. Pascoe, FACSM, Michael D. Roberts, Danielle W. Wadsworth. Auburn University, Auburn, AL. (Sponsor: David D. Pascoe, FACSM)
Email: mrg0018@auburn.edu
(No relationships reported)

3567  Board #14  8:00 AM - 9:30 AM
The Effects Of Malnutrition On Muscle Strength And Self Care Ability Of Elderly Living Alone In Taiwan
Hui-fen Lin, Wan-ju Liu, Mei-ju Chi, Chueh-Ho Lin. TAIPEI MEDICAL UNIVERSITY, Taipei, Taiwan.
Email: a902383012@gmail.com
(No relationships reported)

3568  Board #15  8:00 AM - 9:30 AM
Association Between Nutritional Risk, Physical Function, and Physical Activity in Older Adults
Randall J. Gretebeck, Wan-Chin Kuo, Carly E. Babino, Kimberlee A. Gretebeck. University of Wisconsin-Madison, Madison, WI.
Email: rgretebeck@wisc.edu
(No relationships reported)

3569  Board #16  8:00 AM - 9:30 AM
Effects of A Kefir Diet on Kidney Antioxidant Enzymes of Rats Treated with Doxorubicin
Raquel B. Buschkra1, Michael J. Capps1, Laura K. Stewart2, Keely O’Brien2, Charles Boenke2, Matthew Christensen2, David S. Hydock2. 1University of Northern Colorado, Greeley, CO. 2Louisiana State University, Baton Rouge, LA.
(No relationships reported)
Board #31
8:00 AM - 9:30 AM
Metabolic Changes After Two Differents Exercise Programs In Sedentary Type 2 Diabetic Patients.
Maciste H. Macías Cervantes1, Luis G. Casillas1, Ma Eugenia Garay-Segovia1, Arturo Figueroa, FACSM2, Ernesto Zarate1, Axel Guerrero1.
1UNIVERSIDAD DE GUANAJUATO, León, Mexico. 2FLORIDA STATE UNIVERSITY, TALLAHASSEE, FL. (No relationships reported)

Board #32
8:00 AM - 9:30 AM
Relationship Between Mitochondrial Respiration and Glucose Tolerance in Individuals at Risk of Type 2 Diabetes
Justin J. Reid, Adam R. Konopka, William M. Castor, Jaime L. Laurin, Christopher A. Wolff, Miles T. Whedbee, Karyn L. Hamilton, FACSM, Benjamin F. Miller, FACSM, Colorado State University, Fort Collins, CO. (No relationships reported)

Board #33
8:00 AM - 9:30 AM
Neuronal Inflammation: A Potential Contributing Mechanism to High Fat Diet-Induced Neuropathy
David S. Umbaugh, J. Claire Maciejewski, Brianne L. Guilford. Southern Illinois University Edwardsville, Edwardsville, IL. Email: dumbsaug@siue.edu (No relationships reported)

Board #34
8:00 AM - 9:30 AM
Association Between Whole-body VO2peak And Skeletal Muscle Mitochondrial Respiration In Adults At Risk Of Diabetes
William M. Castor, Adam R. Konopka, Jaime Laurin, Christopher A. Wolff, Karyn L. Hamilton, FACSM, Benjamin F. Miller, FACSM. Colorado State University, Fort Collins, CO. (No relationships reported)

Board #35
8:00 AM - 9:30 AM
The Effect of a Western Diet on Hepatic Autophagy in Age Accelerated SAMP8 Mice
Matthew P. Harris, Megan L. Schaller, David Umbaugh, Karin Sandvol, Ken A. Witt, Joshua S. Wooten. Southern Illinois University Edwardsville, Edwardsville, IL. Email: matthar@siue.edu (No relationships reported)

Board #36
8:00 AM - 9:30 AM
Fish-oils Increase BAMBI Expression to Protect Against Fibrotic Activity in LPS Stimulated Heparic Tissue
Megan L. Schaller, Matthew P. Harris, Dakota Kamm, Kenneth A. Witt, Karin E. Sandvol, Joshua S. Wooten. Southern Illinois University Edwardsville, Edwardsville, IL. (No relationships reported)

Board #37
8:00 AM - 9:30 AM
Adiposity, Physical Activity and Sedentary Time in Overweight Children With and Without Hepatic Steatosis
Maria Medrano1, Lide Arezazz2, Beatriz Rodríguez-Vigil3, Cristina Cadenas-Sánchez4, Sara Maldonado-Martín4, Catherine L. Davies5, Francisco B. Ortega1, Idonia Labayen1. 1University of Basque Country, UPV/EHU, Vitoria-Gasteiz, Spain. 2University Hospital of Tsagarrrita, Vitoria-Gasteiz, Spain. 3University of Granada, Granada, Spain. 4Medical College of Georgia, Augusta University, Augusta, GA. Email: maria.medrano@ehu.eus (No relationships reported)

Board #38
8:00 AM - 9:30 AM
Effects Of Paradoxal Sleep Deprivation On Liver Functionality Of Sedentary Rats
Marcus L. Santos, Marcos Mónico Neto, Kil Sun Lee, Carolina Foot Moura, Daniel Araki Ribeiro, Luciana Le Sueur Maluf, Hanna Moreira Antunes. Universidade Federal de São Paulo, São Paulo, Brazil. Email: marcus.santos.mutri@gmail.com (No relationships reported)

Board #39
8:00 AM - 9:30 AM
Asprosin, A Newly Identified Fasting-Induced Hormone Is Not Elevated In Obesity And Is Insensitive To Acute Exercise
Uwe Schumann1, Shanhu Qiu1, Katrin Enders1, Edit Bosnyák1, Roman Laszlo2, Katja Machus3, Emese Trájer1, Sripriya Jagannathan4, Martina Zügel5, Jürgen M. Steinacker, FACSM. 1Ulm University Medical Center, Ulm, Germany. 2Zongzi Hospital, Institute of Diabetes, Southeast University, Nanning, China. (Sponsor: Jürgen M Steinacker, FACSM) (No relationships reported)

Board #40
8:00 AM - 9:30 AM
Cross-validation Of The Developed Obesity Cut-off Points For Korean Adults
Junbae Mun1, James L. Farnsworth2, Heonae Kim1, Minsoo Kang, FACSM. 1Middle Tennessee State University, Murfreesboro, TN. 2Buena Vista University, Storm Lake, IA. (Sponsor: Minsoo Kang, FACSM) (No relationships reported)

Board #41
8:00 AM - 9:30 AM
Total Body Adiposity And Accumulated Visceral Adipose Tissue: Influence Of Age, Race/ethnicity And Sex
Philip R. Stanforth, Rachel M. Watson, Anna E. Talley. The University of Texas at Austin, Austin, TX. (Sponsor: Hiro Tanaka, FACSM) Email: p.stanforth@austin.utexas.edu (No relationships reported)

Board #42
8:00 AM - 9:30 AM
Muscle Extracellular Matrix and Metabolic Outcomes Favour Moderate Intensity Training Over HIIT in Obese Mice
Sergio F. Martínez Huencullan1, Bubu R. Maharjan1, Champaigne S. Tam2, Susan V. McLennan1, Stephen M. Twigg1. 1Greg Brown Diabetes & Endocrine Reasearch Laboratory, Sydney Medical School, and Charles Perkins Centre, University of Sydney, Sydney, Australia. 2Greg Brown Diabetes & Endocrine Reasearch Laboratory, Sydney Medical School, Charles Perkins Centre and School of Life and Biological Sciences, University of Sydney, Sydney, Australia. 3Greg Brown Diabetes & Endocrine Reasearch Laboratory, Sydney Medical School, Charles Perkins Centre, University of Sydney. Chemical Pathology, New South Wales Pathology, Sydney, Australia. 4Greg Brown Diabetes & Endocrine Reasearch Laboratory, Sydney Medical School, and Charles Perkins Centre, University of Sydney. Royal Prince Alfred Hospital, Sydney, Australia. (Sponsor: Atlantic Health System) Email: smart381@unsw.edu.au (No relationships reported)

Board #43
8:00 AM - 9:30 AM
Kefir Alters Cardiac Function and Left Ventricular Dimensions in a Model of Doxorubicin-Induced Cardiomyopathy
Peter Smoak1, Reid Hayward1, David Hydock1, Keeley O’Brienn2, Charles Boeneke2, Matthew Christensen1, Keegan Reeves1, Jonathon Lisan1, Laura K. Stewart1. 1Greg Brown Diabetes & Endocrine Research Laboratory, Sydney Medical School, Charles Perkins Centre, University of Sydney, Sydney, Australia. 2Pathology, University of Sydney. Royal Prince Alfred Hospital, Sydney, Australia. (Sponsor: Atlantic Health System) Email: p.smoak@gmail.com (No relationships reported)

Board #44
8:00 AM - 9:30 AM
Nexrutine, a Viable Exercise Mimetic for Prostate Cancer Prevention
Darpan I. Patel, Kira Pamerleau, Paul Rivas, Roble Bedolla, A. Prapat Kumar. University of Texas Health Science Center at San Antonio, San Antonio, TX. Email: patelkd@uthscsa.edu (No relationships reported)
Board #54
9:30 AM - 11:00 AM
Exercise Normalizes Dysfunctional Adipose Tissue Phenotype in FGF21-Null Mice
Jay Porter1, Joe L. Rowlies, III1, Justin A. Fletcher1, Terese M. Zidon1, Nathan C. Winn1, Leighton McCabe1, Young-Min Park1, James W. Perfield1, John P. Thyfault1, FACSM1, R. Scott Rector1, Jaimie Padilla1, Victoria J. Vieira-Porret1. 1University of Missouri, Columbia, MO. 2University of Illinois at Urbana-Champaign, Urbana-Champaign, IL. 3Lilly Research Laboratories, Indianapolis, IN. (No relationships reported)

Board #55
9:30 AM - 11:00 AM
Resistance Exercise and Polyphenol Supplementation elicits Unique Recruitment of Monocyte Subsets in Untrained Men
Adam Ajmner1, Jay Hoffman, FACSM1, Jeremy Townsend2, Kyle Beyer1, Alyssa Varanoske1, David Church1, Michael La Monica2, Josh Rice1, Tyler Maddie1, Leonardo Oliveira2, Kelli Herrlinger1, Shlomit Radom-Aizik1, David Fukuda2, Jeffrey Stort1. 1Kent State University, Kent, OH. 2University of Central Florida, Orlando, FL. 3Lipscomb University, Nashville, TN. 4Kemin Foods, L.C., Des Moines, IA. 5University of California - Irvine, Irvine, CA. (Sponsor: Jay Hoffman, FACSM) (No relationships reported)

Board #56
9:30 AM - 11:00 AM
Acute Resistance Training Induced Increases in Plasma Interleukin-6 are Volume-dependent
Peter J. Ferrandi, Justin M. Quiles, Rocky Blanco, Alex Klemp, Chad Dolan, Arun Maharaj, Chun-Jung Huang, FACSM, Michael Whitehurst, FACSM, Michael C. Zourdos, FACSM, Florida Atlantic University, Boca Raton, FL. Email: pferri1@fau.edu (No relationships reported)

Board #57
9:30 AM - 11:00 AM
Ankle Proprioception And Soccer Skills in Youth Recreational Players
Adam Jajtner1, Jay Hoffman, FACSM2, Jeremy Townsend3, Kyle Beyer1, Alyssa Varanoske1, David Church1, Michael C. Zourdos, FACSM1, James W. Perfield1, John P. Thyfault1, FACSM1, R. Scott Rector1, Jaimie Padilla1, Victoria J. Vieira-Porret1. 1University of Missouri, Columbia, MO. 2University of Illinois at Urbana-Champaign, Urbana-Champaign, IL. 3Lilly Research Laboratories, Indianapolis, IN. (No relationships reported)

Board #58
9:30 AM - 11:00 AM
Nociceptor Recruitment in Patients with Carpal Tunnel Syndrome
Brooke邢, Constantine H. Stamatakis1, Peter J. Ferrandi1, Justin M. Quiles1, Rocky Blanco1, Alex Klemp1, Chad Dolan1, Arun Maharaj1, Chun-Jung Huang1, FACSM1, Michael C. Zourdos1, FACSM1. 1University of Central Florida, Orlando, FL. (No relationships reported)
3612  Board #59  9:30 AM - 11:00 AM
Force-Time Characteristics During A Reactionary Gripping Task: Effects Of A 10-Week Introductory Judo Course
Michael B. La Monica, David H. Fukuda, Tyler WD Muddle, Kyle S. Beyer, Ran Wang, Jeffrey R. Stout, FACSM, Jay R. Hoffman, FACSM. University of Central Florida, Orlando, FL. (Sponsor: Jay R. Hoffman, FACSM)  
(No relationships reported)

3613  Board #60  9:30 AM - 11:00 AM
Differences in Mobility Among Older Adults Are Associated with Motor Unit Activity and Muscle Strength
Diba Mani1, Awad M. Almuklassi, Taian Vieira2, Alberto Botter1, Roger M. Enoka1. 1University of Colorado, Boulder, CO. 2Politecnico di Torino, Torino, Italy. (Sponsor: Robert Mazzocchi, Ph.D., FACSM)
Email: manidi@colorado.edu  
(No relationships reported)

3614  Board #61  9:30 AM - 11:00 AM
Reliability of the V-Wave during Maximal Voluntary Planter Flexion Exercise
Alvyn T. Quashirze, Robert E. Hight III, Christopher D. Black. University of Oklahoma, Oklahoma City, OK. (Sponsor: Pat O’Connor, FACSM)
Email: Nathan.P.Wages-1@ou.edu  
(No relationships reported)

3615  Board #62  9:30 AM - 11:00 AM
Unilateral Fatiguing Exercise And Its Effect On Relative, Percent Change Differences Between Vastus Lateralis Muscles
Nathan Wages1, Travis Beck2, Xin Ye3, Joshua Carr4, Hayden Tharp5. 1University of Oklahoma, Norman, OK. 2University of Mississippi, Oxford, MS.
Email: Nathan.P.Wages-1@ou.edu  
(No relationships reported)

3616  Board #63  9:30 AM - 11:00 AM
Is There A Cessation Of Motor Unit Remodeling As A Compensatory Strategy To Age-related Motor Unit Loss?
Kevin J. Gilmore, Eric A. Kirk, Charles L. Rice, FACSM. The University of Western Ontario, London, ON, Canada. (Sponsor: Dr. Charles L. Rice, FACSM)
Email: kgilmer@uwo.ca  
(No relationships reported)

3617  Board #64  9:30 AM - 11:00 AM
The Difficulty Of EMG Burst Identification: Visual And Bayesian Changepoint Analysis
Matthew S. Tenan1, Daniel Drif1, Adam Fong2, Victoria Voorhees2, Deborah L. King1. 1US Army Research Laboratory, Aberdeen Proving Ground, MD. 2Ithaca College, Ithaca, NY.
Email: matthew.s.tenan.civ@mail.mil  
(No relationships reported)

3618  Board #65  9:30 AM - 11:00 AM
Comparisons Between Voluntary Muscle Activation And Evoked V-wave Responses As A Function Of Torque
Robert E. Hight, Alvyn T. Quashirze, Christopher D. Black. University of Oklahoma, Norman, OK. (Sponsor: Patrick O’Connor, FACSM)
Email: robbeyhight@ou.edu  
(No relationships reported)

3619  Board #66  9:30 AM - 11:00 AM
Exploring Bilateral Handgrip Forces Control During Inter-limb Coordination Task After Hemiparetic Stroke: A Preliminary Study
Chueh-Ho Lin1, Liang-Hsuan Lu2, Shang-Lin Chiang1, Chien-Hung Lai1. 1Taipei Medical University, Taipei, Taiwan. 2Tri-Service General Hospital, Taipei, Taiwan. (Sponsor: Patrick O’Connor, FACSM)
Email: chueh.ho@gmail.com  
(No relationships reported)

3620  Board #67  9:30 AM - 11:00 AM
Inter-individual Variability In The Mechanomyographic Frequency Response During A Sustained Isometric Force Task
Joshua C. Carr. The University of Oklahoma, Norman, OK.
Email: jc.carr@ou.edu  
(No relationships reported)

3621  Board #68  9:30 AM - 11:00 AM
An Examination of Patellar Tendon Reflex Pre-Motor Conduction Velocity across the Adult Lifespan
Alejandra Barrera-Curiel, Ryan J. Colquhoun, Zachary K. Pope, Jason M. DeFreitas. Oklahoma State University, Stillwater, OK.
Email: ale.barrera_curie@osu.edu  
(No relationships reported)

3622  Board #69  9:30 AM - 11:00 AM
Motor Execution And Imagery With Greater Task Difficulty Increases Corticospinal Excitability
Email: m157010@sky.nifs-k.ac.jp  
(No relationships reported)

3623  Board #70  9:30 AM - 11:00 AM
Bilateral Arthrogenic Muscle Inhibition in the Soleus Muscle Following Acute Ankle Sprain
Kyun-Min Kim, Joo-Sung Kim. University of Miami, Miami, FL. (Sponsor: Arlette Perry, FACSM)
Email: kmk154@miami.edu  
(No relationships reported)

3624  Board #71  9:30 AM - 11:00 AM
Changes In Motor Unit Recruitment And De-recruitment Strategies Are Not Associated With The Repeated-bout Effect
Jessica Peterson, 73019, Robert Hight, Cameron Lohman, Christopher Black. University Of Oklahoma, Norman, OK. (Sponsor: Kevin McCully, FACSM)
Email: jessica.a.peterson-1@ou.edu  
(No relationships reported)

3625  Board #72  9:30 AM - 11:00 AM
Myosin Heavy Chain Influences Firing Rate Behavior from Moderate to High Intensity Targeted Forces
Michael A. Trevino, Philip Michael Gallagher, Andrew C. Fry, Jonathan D. Miller, Adam J. Sterczala, Trent J. Herda. University of Kansas, Lawrence, KS.
Email: mtreveno@ku.edu  
(No relationships reported)

3626  Board #73  9:30 AM - 11:00 AM
Fatiguing Knee Extensors Has Differential Effects on Contralateral Homologous and Non-Related Heterogeneous Muscles
Xin Ye1, Travis W. Beck2, Nathan P. Wages2, Joshua C. Carr2, Hayden M. Tharp3, Michael G. Bemben, FACSM, Rebecca D. Larson1, Carr J. Ade3. 1University of Oklahoma, Norman, OK. 2University Of Oklahoma, Norman, OK. 3Kansas State University, Manhattan, KS.
Email: xye1@olemiss.edu  
(No relationships reported)

3627  Board #74  9:30 AM - 11:00 AM
Recruitment Properties In Vastus Medialis And Vastus Medialis Oblique In Individuals With Patellofemoral Pain Syndrome
Yi-Ling Peng1, Mattew S. Tenan2, Lisa Griffin1. 1UT-Austin, Austin, TX. 2US Army Research Laboratory, Aberdeen Proving Ground, MD.
Email: elena.peng@utexas.edu  
(No relationships reported)
3628 Board #75 9:30 AM - 11:00 AM
Sensorimotor Cortex Neuroplasticity Following Neuromuscular Training Augmented With Real Time Biofeedback
Dustin R. Grooms1, Jonathan D. Ellis2, Katie Kitchen2, Staci Thomas1, Adam W. Kiefer2, Christopher DiCesare1, Brooke Gadd1, Scott Bonnette1, Kim D. Barber Foss2, Weihong Yuan1, James Leach1, Kate Berz1, Michael A. Riley2, Gregory D. Myer, FACSM1. 1Ohio University, Athens, OH. 2University of Cincinnati, Cincinnati, OH. 3Cincinnati Children’s Hospital Medical Center, Cincinnati, OH.
Email: grooms.dusty@gmail.com
(No relationships reported)

3629 Board #76 9:30 AM - 11:00 AM
Exploring Relations Between Gross Motor Skills, Attention, and Inhibition in Adolescents
Jonathan Rivard, Julie Bouchard, Annie Gagné, Linda Paquette, Jacinthe Dion, Tommy Chevrette. UQAC, Chicoutimi, QC, Canada.
Email: jonathan.c.rivard@gmail.com
(No relationships reported)

3630 Board #77 9:30 AM - 11:00 AM
Gaze Stability of Visually Trained and Non-Visually Trained Athletes During a Sport-Like Postural Task
Brian Szekely1, Megan Mornm1, Peter Chrysosferidis1, Katelyn Grimes1, Brian Mizeski1, Barry Munkasy2, Douglas PowellF, Nicholas Murray1. 1Georgia Southern University, Statesboro, GA. 2University of Memphis, Memphis, TN.
(No relationships reported)

3631 Board #78 9:30 AM - 11:00 AM
The Effect of Different Cognitive Tasks on Motor Output in Young Adults
Amanda Morris, David Gallacher, Anita Christie. University of Oregon, Eugene, OR. (Sponsor: David Gabriel, FACSM)
Email: amorris8@uoregon.edu
(No relationships reported)

3632 Board #79 9:30 AM - 11:00 AM
Quadriceps Torque During High- And Low-frequency Neuromuscular Electrical Stimulation
Dillon M. Magee1, Jona A. Mettler1, Barbara M. Dosuer1. 1Texas State University, San Marcos, TX. 2Louisiana State University Health Sciences Center, New Orleans, LA. (Sponsor: Tinker D. Murray, FACSM)
Email: dm1441@txstate.edu
(No relationships reported)

3633 Board #80 9:30 AM - 11:00 AM
Identification of Latent Variables Underlying Manual Dexterity In Middle-aged and Old Adults
Landon D. Hamilton1, Ewan Thomas2, Roger M. Enoka1. 1University of Colorado Boulder, Boulder, CO. 2University of North Carolina, Chapel Hill, NC.
Email: lhaha3107@colorado.edu
(No relationships reported)

3634 Board #81 9:30 AM - 11:00 AM
Effect Of Knee Joint Angle On Force Accuracy And Neuromuscular Activation During Force Tracking Task.
Aya TOMITA, Hiroshi AKIMA. Nagoya University, Nagoya, Japan. (Sponsor: Katsumi ASANO, FACSM)
Email: to-mi-ta@nagoya-u.jp
(No relationships reported)
Board #899
8:00 AM - 9:30 AM
Is Vo2max Related To Rating Of Perceived Capacity (RPC) And What Is Vo2max At Onset Of Training?
Email: christina.gjestvang@mnh.no
(No relationships reported)

Board #900
8:00 AM - 9:30 AM
Can Rate Of Perceived Exertion Be Used To Estimate Muscle Activation?
Daniela Schüfer Ohstäd1, Per-Ludvik Kjeldlie2, Jan Cabri2, Bjorn Harald Ohstäd1. Polar Electro Oy, Kempele, Finland. Norwegian School of Sport Sciences, Oslo, Norway.
(No relationships reported)

Board #901
8:00 AM - 9:30 AM
Efficacy Of The Repetitions In Reserve-based Rating Of Perceived Exertion For The Bench Press In Experienced And Novice Benchers
Joseph P. Carzoli1, Alex Klemp1, Brittany Allman1, Michael C. Zourdos1, Joseph P. Carzoli1, Alex Klemp1, Brittany Allman1, Michael C. Zourdos1. University of Central Missouri, Warrensburg, MO. (Sponsor: Harry B. Rossiter, FACSM)
Email: garver@ucmo.edu
(No relationships reported)

Board #902
8:00 AM - 9:30 AM
Physiological, Gait, And Perceptual Responses At 5-km Race Pace On Motorized Vs. Non-motorized Treadmills
Email: ekennedy1@una.edu
(No relationships reported)

Board #903
8:00 AM - 9:30 AM
Training and Chronological Age Effect Repetitions in Reserve-based Rating of Perceived Exertion Accuracy
Michael H. Haisher1, Jacob A. Goldsmith1, Daniel M. Cooke1, Ryan K. Byrnes1, Jared H. Perlmutter2, Jose C. Velazquez2, Adam Sayih2, Eric R. Helms1, Chad Dolar2, Michael C. Zourdos1. Florida Atlantic University, Boca Raton, FL. (Sponsor: Michael Whitehurst, FACSM)
Email: mnhaisher2015@fau.edu
(No relationships reported)

Board #904
8:00 AM - 9:30 AM
Total Repetitions Per Set Effects Repetitions in Reserve-based Rating of Perceived Exertion Accuracy
Jared H. Perlmutter1, Jacob A. Goldsmith1, Daniel M. Cooke1, Ryan K. Byrnes1, Michael H. Haisher1, Jose C. Velazquez2, Adam Sayih2, Eric R. Helms1, Chad Dolar2, Michael C. Zourdos1. Florida Atlantic University, Boca Raton, FL. (Sponsor: Michael Whitehurst, FACSM)
Email: jperlm1@my.fau.edu
(No relationships reported)

Board #910
8:00 AM - 9:30 AM
Pacing: The Role of the Rating of Perceived Exertion Template in Pacing
Jos J. de Koning, FACSM1, Wouter Schallig2, Tim Veneman2, Dionne A. Noordhoff1, José A. Rodriguez-Marroyo2, John P. Porcari, FACSM1, Carl Foster, FACSM1. Vrije Universiteit, Amsterdam, Netherlands. University of León, León, Spain. University of Wisconsin - La Crosse, La Crosse, WI.
Email: jj.de.koning@vu.nl
(No relationships reported)

Board #911
8:00 AM - 9:30 AM
Perceived Exertion Compared to Physiological Exertion over the course of Two Different Exercise Interventions
Adam C. Lowe1, Neel M. Johannsen1, Conrad P. Earnest, FACSM2, Catrine Tudor-Locke, FACSM2, Melissa Harris3, Timothy S. Church4, Corby K. Martin4. Louisiana State University, Baton Rouge, LA. Texas A&M University, College Station, TX. University of Massachusetts, Amherst, MA. Pennington Biomedical Research Center, Baton Rouge, LA. (Sponsor: Catrine Tudor-Locke, FACSM)
(No relationships reported)

Board #912
8:00 AM - 9:30 AM
Prevalence of Asthma and Exercise-induced Bronchoconstriction In College Wrestlers
Steve Burns1, Brian Hughes1, Matthew J. Garver2, David Glover3. Taylor Dinyer1, Alex Rickard1, Molly Jennings1, Dustin Davis1, Adrianna Blazed1, Jenna Carducci2, Laura Miller2, Justin Colf2, Dave Burnett2, Michael Godard, FACSM2. University of Central Missouri, Warrensburg, MO. Kansas University School of Medicine, Kansas City, MO. (Sponsor: Michael Godard, FACSM)
Email: sburns@ucmo.edu
(No relationships reported)

Board #913
8:00 AM - 9:30 AM
Bronchoconstriction In Collegiate Men’s Basketball
Matthew J. Garver1, Steve Burns1, Brian J. Hughes1, David Glover2, Taylor Dinyer1, Alex Rickard2, Molly Jennings2, Dustin Davis3, Adrianna Blazed2, Jenna Carducci2, Laura Miller2, Justin Colf2, Dave Burnett2, Michael Godard, FACSM2. University of Central Missouri, Warrensburg, MO. Kansas University School of Medicine, Kansas City, KS.
Email: garver@ucmo.edu
(No relationships reported)

Board #914
8:00 AM - 9:30 AM
Muscle Oxidative Capacity Is Low In The Upper And Lower Limbs Of COPD Patients
Alessandra Adami, Rogério B. Corvino, Richard Casaburi, Robert V. Cao, Robert A. Carmelat, Janos Porszasz, Harry B. Rossiter, FACSM, Los Angeles Biomedical Research Institute at Harbor-UCLA, TORRANCE, CA. (Sponsor: Harry B. Rossiter, FACSM)
Email: aadami@labiomed.org
(No relationships reported)
Board #102  8:00 AM - 9:30 AM
Prevalence of Exercise Induced Bronchoconstriction in Puerto Rican Athletes with Respiratory Symptoms during Exercise
Anita M. Rivera-Brown, FACSM, Claudia Jiménez. University of Puerto Rico School of Medicine, San Juan, Puerto Rico. Email: aniriver.brown@gmail.com
(No relationships reported)

Board #103  8:00 AM - 9:30 AM
Relationship between Vascular Health and Maximal Exercise Capacity Following Sildenafil Treatment in Cystic Fibrosis
Matthew A. Tucker, Nicole Seigler, Kathleen T. McKie, Caralee Forseen, Reva H. Crandall, Ryan A. Harris, FACSM, Augusta University, Augusta, GA. (Sponsor: Ryan A. Harris, FACSM)
Email: mat.tucker@augusta.edu
(No relationships reported)

Board #104  8:00 AM - 9:30 AM
<Using Active Video Game For Home Rehabilitation With COPD Patients: A Feasibility Study>
Andrée-Anne Parent, J5W5E4, Vincent Gosselin-Boucher1, Marilyn Houle-Pelopin2, Claude Poirier2, Alain-Steve Corriol3. 1Université du Québec à Montréal, Montréal, QC, Canada. 2Hotel-Dieu Hospital, Montréal, QC, Canada. Email: parent.andree-anne@uqam.ca
(No relationships reported)

Board #105  8:00 AM - 9:30 AM
The Acute Response to Sprint Interval Exercise in Adults With and Without Confirmed Airway Hyper-responsiveness
Joshua Good1, Kirsten A. Burgomaster2, Shilpa Dogra1. 1University of Massachusetts, Amherst, MA. 2University of Massachusetts, Amherst, MA. Email: jacquelyn.klein@va.gov
(No relationships reported)

Board #106  8:00 AM - 9:30 AM
Abnormal Gas Exchange in Dyspneic Veterans with Normal Spirometry
Jacquelyn C. Klein, Anays Sotolongo, Duncan Ndirangu, Omowunmi Y. Osinubi, Drew A. Helmer, Lydia Patrick Forseen, Reva H. Crandall, Ryan A. Harris, FACSM, Augusta University, Augusta, GA. Email: weimozhu@uiuc.edu
(No relationships reported)

Board #107  8:00 AM - 9:30 AM
Postoperative Complications After Surgical Treatment For Exercised Induced Laryngeal Obstruction
Magnus Hilland1, Ingvid Engesater1, Astrid Sandnes2, Lorentz Sandvik1, Ola Rokstad1, John-Helge Heimdal1, Thomas Halvorsen2, Hege H. Clemm1. 1Haukeland University Hospital, Bergen, Norway. 2University of Bergen, Bergen, Norway. Email: jacquelyn.klein@va.gov
(No relationships reported)

Board #108  8:00 AM - 9:30 AM
Influence of Respiratory Limitation on Exercise Capacity with Potential Implication of Ventilatory Muscle Fatigue
Monira I. Alldhahi, Liana C. Wooten, Randall E. Keyser, FACSM. George Mason University, Fairfax, VA.
(No relationships reported)

Board #109  8:00 AM - 9:30 AM
Health Related Quality of Life in COPD Patients Completing Aerobic and Resistance Training
Michael J. Berry, FACSM, Katherine Shields, Jordan Irwin. Wake Forest University, Winston-Salem, NC.
Email: berry@wfus.edu
(No relationships reported)
**SATURDAY, JUNE 3, 2017**

**G-34 Free Communication/Poster - Training and Recovery**

**Board #118**

**9:30 AM - 11:00 AM**

**Effects Of Different Pull Up Training Strategies On Pull Up Scores**

Eric Martin, George Beckham. California State University, Monterey Bay, Seaside, CA. (Sponsor: Kent Adams, FACSM)

Email: emartin@csumb.edu

(No relationships reported)

**Board #119**

**9:30 AM - 11:00 AM**

**Continuous Maximal Vertical Jumping Until Exhaustion Negatively Affects Landing Impact Severity: Effective Duration Measure**

Chad A. Sutherland,1 Paul Leuty,2 Joel A. Cori,3 Jim R. Potvin.1

1McMaster University, Hamilton, ON, Canada. 2University of Windsor, Windsor, ON, Canada. 3University of Ulm, Ulm, Germany.

Email: sutherca@mcmaster.ca

(No relationships reported)

**Board #120**

**9:30 AM - 11:00 AM**

**11-wk Preparation With Polarized Compared To Pyramidal Intensity Distribution Is Not Superior In Sub-Elite Rowers**

Gunnar Treff,1 Kay Winken,1 Jürgen M. Steinacker, FACSM,1 Mahdi Sareban,2 Martin Becker,2 Billy Sperlich.1

1University of Ulm, Ulm, Germany. 2Paracelsus Medical University, Salzburg, Austria.

Email: gunnar.treff@uni-ulm.de

(No relationships reported)

**Board #121**

**9:30 AM - 11:00 AM**

**A Study of Sling Exercise Training for Judo Athlete to Improve Technique of Seoi-nage**

Shan-Shan MAO. Beijing Sport University, Beijing, China.

(No relationships reported)

**Board #122**

**9:30 AM - 11:00 AM**

**Effectiveness and Feasibility of Integrating Video Feedback into Practice to Improve the Collegiate Softball Hit**


Email: ehartigan@une.edu

(No relationships reported)
American College of Sports Medicine

SATURDAY, JUNE 3, 2017

Board #131 9:30 AM - 11:00 AM
Training Unloading During Winter Break Improves Fitness in Male Rugby Players
J. MarkVanNess, Jeremy McConnell, Derek Gleason, Courtney Jensen. University of the Pacific, Stockton, CA. Email: mvanness@pacific.edu
(No relationships reported)

Board #132 9:30 AM - 11:00 AM
No Acute Effect of Sled Towing on Sprint Acceleration or Maximum Speed
(No relationships reported)

Board #133 9:30 AM - 11:00 AM
The Effect of Reduced Training Volume during Tapering on Kicking Response in Taekwondo Competitors
Email: pcarazon@hotmail.com
(No relationships reported)

Board #134 9:30 AM - 11:00 AM
Effects of a 3-week Core Training Program on Different Unstable Platforms
Alexa J. Chandler1, Sebastian Harenberg2, Joseph DiSalvo2, John Fausold1, Larissa Melendez1, Rachel Simkins1, Collin Gill1, Victor Lopez-Carmen1, Thomas Swensen1. Rutgers, The State University of New Jersey, New Brunswick, NJ. 1Hatha College, Ithaca, NY.
(No relationships reported)

Board #135 9:30 AM - 11:00 AM
Effects Of An Eight-week Swingfit Training Program On Balance, Muscular Strength, And Muscular Endurance.
James Schoffstall, FACSM, Chris Carver, Jon Houck, Andy Bosak, Chelsea Page. Liberty University, Lynchburg, VA.
Email: jeschoffstall@liberty.edu
(No relationships reported)

Board #136 9:30 AM - 11:00 AM
Changes In Heart Rate Variability And Training Load In Elite Football Players
Bryna C. Chrismas1, Lee Taylor2, Graham Stark1. 1Qatar University, Doha. Qatar 2Aspetar Orthopaedic and Sports Medicine Hospital, Doha, Qatar.
1University of Bedfordshire, Bedford, United Kingdom.
Email: bchrismas@qu.edu.qa
(No relationships reported)

Board #137 9:30 AM - 11:00 AM
Acute Effects of Plyometric Exercise on Blood Glucose
Saldiam R. Barillas, Casey M. Watkins, Megan A. Wong, Ian J. Dobbs, David C. Archer, Cameron N. Munger, Andrew J. Galpin, Jared W. Coburn, FACSM, Lee E. Brown, FACSM. California State University, Fullerton, Fullerton, CA.
(No relationships reported)

Board #138 9:30 AM - 11:00 AM
Effects Of Lifestyle Modifications On Serum Testosterone Levels In Overweight And Obese Men
Hiroshi Kumagai, Toru Yoshikawa, Kanace Myoonzono, Tomoko Kaneko, Takehiko Tsujimoto, Kiyoyo Tanaka, Seiji Maeda. University of Tsukuba, Tsukuba, Japan.
(No relationships reported)

Board #139 9:30 AM - 11:00 AM
Comparison Of HR And BP Among A Non-exercise Session And Before HIIE And MICE Sessions
Katherine E. Miller, Charles E. Robison, Devon B. Grassi, Jatin P. Ambegaonkar. George Mason University, Manassas, VA.
(No relationships reported)

Board #140 9:30 AM - 11:00 AM
Sprint Interval Training and Associated Improvements in VO2 max Amongst College Age Women
Leigha Embertson, Sophie Olson, Jenna Thompson, Mark Blegen, 55105, FACSM. St. Catherine University, St. Paul, MN. (Sponsor: Mark Blegen, FACSM)
(No relationships reported)

Board #141 9:30 AM - 11:00 AM
Comparison Between Unilateral and Bilateral Plyometric Training on Single and Double Leg Jumping Performance
Gregory C. Bogdanis1, Olga Kaloherti1, Athanasios Tsoukas1.
Gerasimos Terzi1, Panagiotis Veligekas1, Lee E. Brown, FACSM. 1National and Kapodistrian University of Athens, Athens, Greece. 2California State University, Fullerton, CA.
Email: gbogdanis@phed.uoa.gr
(No relationships reported)

Board #142 9:30 AM - 11:00 AM
An Integrated Perspective on Firefighter Recruit Academies: Examining the Sustainability of Fitness Gains
Stacy L. Gnicinski, Kyle T. Ebersole, David J. Cornell, Barbara B. Meyer. University of Wisconsin-Milwaukee, Milwaukee, WI.
(Sponsor: Terry J. Houck, FACSM)
Email: gnicins4@uwm.edu
(No relationships reported)

Board #143 9:30 AM - 11:00 AM
Relationship between Training Volume and Dietary Status in Triathletes A Preliminary Study
Barbara S. McClaman1, Christopher Vukanovich1, Michelle Stocktor1, Kenneth Ward1, Deborah Swanson1. 1University of Memphis, Memphis, TN. 2St. Jude Children’s Research Hospital, Memphis, TN. 3East Tennessee State University, Johnson City, TN.
(Sponsor: Lawrence Weiss, FACSM)
Email: bmcclhntn@memphis.edu
(No relationships reported)

Board #144 9:30 AM - 11:00 AM
Relationship Between Fatigue Index And Obia Before And After Muscular Endurance Training
Daniel Blackwood, John W. Farrell, III, David J. Lantis, Gregory S. Cantrell, Debra A. Bemben, FACSM.
Email: dbblackwood@ou.edu
(No relationships reported)

Board #145 9:30 AM - 11:00 AM
Effect Of Ankle Exercise on Ankle Isokinetic Strength: A Meta-Analysis
Han-Joon Lee1, Minsoo Kang, FACSM1, Hyung-Kyu Kim1, Kyuang-Sang Yoon1, Sung-Jin Hong1, Hee-Bok Song1. 1University of Ulsan, Ulsan, Korea, Republic of. 2Middle Tennessee State University, Murfreesboro, TN. (Sponsor: Minsoo Kang, FACSM)
Email: hanjoon@ulsan.ac.kr
(No relationships reported)

Board #146 9:30 AM - 11:00 AM
Impact of a Firefighter Recruit Training Academy on Movement Quality & Balance Ability
Kyle T. Ebersele, David J. Cornell, Stacy L. Gncinski. University of Wisconsin-Milwaukee, Milwaukee, WI. (Sponsor: Terry J. Houck, FACSM)
Email: ebersele@uwm.edu
(No relationships reported)
<table>
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<th>Session</th>
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| 3700   | Board #417 | 9:30 AM - 11:00 AM | Effects Of Rock Climbing Exercise On Physical Fitness Among College Students: A Meta-Analysis
Lun Li1, An Ru2, Ting Liao3, Shisi Zhou1, XiaoHong Niu1, Yong Tai Wang, FACSM4. 1China University of Geosciences, Wuhan, China. 2Shandong Sport University, Jinan, China. 3Wuhan Sport University, Wuhan, China. 4The University of Texas at Tyler, Tyler, TX. (Sponsor: Yong Tai Wang, FACSM)
Email: lilun1029@163.com (No relationships reported) |
| 3701   | Board #418 | 9:30 AM - 11:00 AM | Short and Long Term Effects of a Simulated Mixed Martial Arts Competition
Montassar Tabben1, Nihel Ghoul2, Jeremy B Coquart2, Claire Toum3, Karim Chamari4. 1ASPREV, ASPETAR, Orthopedic and Sports Medicine Hospital, Doha, Qatar. 2Laboratoire Mobilité, vieillissement et exercice (MOVE) - EA 6514, Poitier, France. 3CETAPS, University of Rouen, Rouen, France. 4Athlete Health and Performance Research Center, ASPETAR, Orthopedic and Sports Medicine Hospital, Doha, Qatar. (No relationships reported) |
| 3702   | Board #419 | 9:30 AM - 11:00 AM | Effect of Plyometric Training on Explosive Strength And Sprint on Team Sports: A Meta-analysis
Denis Alfaro-Jimenez, Alejandro Salcetti-Fonseca. University of Costa Rica, San José, Costa Rica. Email: denis.alfarojimenez@ucr.ac.cr (No relationships reported) |
| 3703   | Board #420 | 9:30 AM - 11:00 AM | A Comparison of Resisted and Assisted Sprint Training in Collegiate Sprinters
Jeremie Murray1, Chad Harris, FACSM2, Kent J. Adams, FACSM3, Joseph Berning, FACSM4, Mark DeBeliso, FACSM5. 1Southeast Missouri State University, Cape Girardeau, MO. 2Southern Illinois University Edwardsville, Edwardsville, IL. 3University of Nevada Las Vegas, Las Vegas, NV. 4New Mexico State University, Las Cruces, NM. 5Southern Utah University, Cedar City, UT. (Sponsor: Mark DeBeliso, FACSM) (No relationships reported) |
| 3704   | Board #421 | 9:30 AM - 11:00 AM | Head Accelerations Associated with Six Standard Judo Throws and Break Falls
Tyler K. Florentin, Casey Snodgrass, Shawn O. Henry. Pacific University, Forest Grove, OR. Email: flof0760@pacificu.edu (No relationships reported) |
| 3705   | Board #422 | 9:30 AM - 11:00 AM | Impact of Percentage-based Versus Autoregulated-based Load Prescription on Maximal Strength
Daniel M. Cooke1, Eric R. Helms2, Ryan K. Byrnes3, Michael H. Haissler4, Trevor K. Johnson5, Jose C. Velazquez6, Joseph P. Carzoli1, John B. Cronin2, Adam G. Storey2, Michael C. Zourdos1. 1Florida Atlantic University, Boca Raton, FL. 2Auckland University of Technology, Auckland, New Zealand. (Sponsor: Michael Whitehurst, FACSM)
Email: dcooke2014@fau.edu (No relationships reported) |
| 3706   | Board #423 | 9:30 AM - 11:00 AM | Greater Ankle Strength and Anaerobic Capacity in Female Marines Who Completed Military Occupational Specialty School
Erin R. Fletcher1, Karen Keenan2, Mita Lovalekar3, Bradley Nindi, FACSM4, Lawrence C. Coleman5, Katelyn Allison6. 1University of Pittsburgh, Pittsburgh, PA. 2United States Marine Corps, Quantico, VA. (Sponsor: Bradley C. Nindi, FACSM) (No relationships reported) |
SATURDAY, JUNE 3, 2017

American College of Sports Medicine

Board #162 9:30 AM - 11:00 AM
Does Foam Rolling Increase Pressure Pain Threshold Of Ipsilateral Lower Extremity Antagonist And Contralateral Muscles?
Scott W. Cheatham¹, Morey J. Kolber², Willam J. Hanney³.
¹California State University Dominguez Hills, Carson, CA. ²Nova Southeastern University, Fort Lauderdale, FL. ³University of Central Florida, Orlando, FL.
(No relationships reported)

Board #163 9:30 AM - 11:00 AM
Downhill Running Followed by Foam Rolling Has No Effect on the Cost of Running
Emma J. Lee, Christopher J. Lundstrom, Eric M. Snyder. University of Minnesota, Minneapolis, MN. (Sponsor: Thomas Olson, FACSM)
Email: lex4357@umn.edu
(No relationships reported)

Board #164 9:30 AM - 11:00 AM
An Examination of Self-Myofascial Release vs. Instrument Assisted Soft Tissue Mobilization Techniques on Vertical and Horizontal Power in Recreational Athletes
Debra Stroiney¹, Rebecca Mokris¹, John Ranney¹, Gary Hanna¹. ¹Gannon University, Erie, PA. ²Edinboro University, Edinboro, PA.
Email: stroiney001@gannon.edu
(No relationships reported)

Board #165 9:30 AM - 11:00 AM
The Impact of a 30 vs. 60 Second Passive Recovery Period on Vertical Jump Performance
Andy Bosak, Austin Smith, Christopher Carver, Matthew Sokoloski, Jon Houck, Jared Feister, Robert Sanders. Liberty University, Lynchburg, VA.
(No relationships reported)

Board #166 9:30 AM - 11:00 AM
Effects Of Manual Inter-structural Release For Posterior Shoulder Tightness On The Humeral Head Position
Koki Hamada¹, Masashi Sadakiyó¹, Kazuyoshi Gamada². ¹Sadamatsu Hospital, omura, Japan. ²Hiroshima International University, Higashihiroshima, Japan.
(No relationships reported)

Board #167 9:30 AM - 11:00 AM
The Effect Of Between Innings Cooling Or Compression On Baseball Pitching During Competitive Game
Kristin J. Heumann, PhD, CSCS, c-EP, Michael Reeder, DO, Nathaniel Snyder, Shelby Kasch, Jeremy Hawkins, PhD, ATC. Colorado Mesa University, Grand Junction, CO.
Email: kheumann@coloradomesa.edu
(No relationships reported)

Board #168 9:30 AM - 11:00 AM
The Effects of a Protein and Carbohydrate Recovery Beverage on Muscle Protein Accretion in Trained Weightlifters
Christopher B. Taber. Sacred Heart University, Fairfield, CT.
Email: taber@ sacredheart.edu
(No relationships reported)

Board #169 9:30 AM - 11:00 AM
Effect Of Recovery Methods On Blood Lactate Clearance After Strenuous Exercise On Brazilian Jiu-jitsu Athletes
Judy R. Wilson, FACSM, Jordan A. Shepler. University of Texas at Arlington, Arlington, TX.
Email: jwilson@uta.edu
(No relationships reported)

Board #170 9:30 AM - 11:00 AM
Effects of Acute Foam Rolling on Quadriceps Performance and Short-term Recovery from Fatigue
Jolene Lim¹, Govindasamy Balasekaran, FACSM,² Visvasuresh Victor Govindaswamy¹, Wayne Foo¹, Yew Cheo Ng¹, Peggy Boey¹. ¹Nanyang Technological University, Singapore, Singapore. ²Concordia University Chicago, Chicago, IL.
(No relationships reported)

Board #171 9:30 AM - 11:00 AM
The Effectiveness of Compression Socks on Recovery from Maximal Aerobic Exercise
Haylee Schultz, Josephine P. Ave, Magdalena Sauret Ruiz, Elaina Biechler. Loras College, Dubuque, IA. (Sponsor: Vincent Paolone, FACSM)
Email: haylee.schultz@loras.edu
(No relationships reported)

Board #172 9:30 AM - 11:00 AM
D. Jason Gillis, Aurora Vellanole, Joseph Gallo. Salem State University, Salem, MA.
Email: jason.gillis@salemstate.edu
(No relationships reported)

Board #173 9:30 AM - 11:00 AM
Comparison Of Recovery Measures Following Cardiorespiratory Fitness Testing In Young Children
Shannon E. Vinci, Michael C. Taylor, Jr, Justin M. Thomas, Cassandra M. Blase, Rosie K. LaCoe, Jody L. Clasey, FACSM. University of Kentucky, Lexington, KY. (Sponsor: Jody L. Clasey, FACSM)
(No relationships reported)

Board #174 9:30 AM - 11:00 AM
Chronic Effects of Cupping Therapy on Balance, Flexibility and Muscular Power
John W. Wygard, FACSM, Shelby Stoner, John Petrizzo, Robert M. Otto, FACSM. Adelphi University, Garden City, NY.
Email: wygard@adelphi.edu
(No relationships reported)

Board #175 9:30 AM - 11:00 AM
The Effects of Acute Cupping Therapy on Balance, Flexibility and Muscular Power
Shelby Stoner, John Petrizzo, John W. Wygard, FACSM, Robert M. Otto, FACSM. Adelphi University, Garden City, NY. (Sponsor: Robert M. Otto, FACSM)
Email: sstoner@adelphi.edu
(No relationships reported)

Board #176 9:30 AM - 11:00 AM
The Effect Of Foam Rolling On Exercise induced Muscle Fatigue
Email: lyppercy@163.com
(No relationships reported)

Board #177 9:30 AM - 11:00 AM
Stretching Techniques and Their Effects on Sprint Speed for Wheelchair Athletes
Laura J. Newsome, J.P. Barfield. Radford University, Radford, VA. (Sponsor: Dr. Trent Hargens, FACSM)
(No relationships reported)

Board #178 9:30 AM - 11:00 AM
Effect Of Branched-chain Amino Acids, β-hydroxy-β-methylbutyrate, And Glutamine On Recovery From Resistance Exercise
Sara A. Baggett¹, Ludmila M. Cosio-Lima¹, Phillip A. Bishop². ¹The University of West Florida, Pensacola, FL. ²Liberty University, Lynchburg, VA.
Email: sbaggett@uwf.edu
(No relationships reported)

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Board #179 9:30 AM - 11:00 AM
Influence of Interval vs Continuous Exercise on Markers of Metabolic Rate During Exercise and Recovery
Robert Buresh, Brian Kliszewicz. Kennesaw State University, Kennesaw, GA.
(No relationships reported)

Board #180 9:30 AM - 11:00 AM
The Effects of Various Methods of Self Myofascial Release on Muscular Power
Paul Weber, Robert M. Otto, FACSM, John Petrizzo, John W. Wygand, FACSM. Adelphi University, Garden City, NY. (Sponsor: Robert M. Otto, FACSM)
Email: paulweber@mail.adelphi.edu
(No relationships reported)

Board #181 9:30 AM - 11:00 AM
Cold Water Immersions For Recovery In Young Female Handball Players
Braulio Sánchez-Ureña1, Ismael Martínez-Guardado2, Marta Camacho-Cardeños3, Alba Camacho-Cardeños4, Rafael Timón5, Guillermo Olcina6, Jeffrey M. Mjaanes, FACSM7. National University of Costa Rica, Heredia, Costa Rica. 8University of Extremadura, Cáceres, Spain. 9Northwestern University, Evanston, IL.
Email: brauf9@hotmail.com
(No relationships reported)

Board #182 9:30 AM - 11:00 AM
Effects Of A Short Intervention Of AIS And PNF On College Students’ Shoulder Flexibility
Chunmei Cao1, Chongyao Xiao2, Jingmin Liu3, Yu Liu4, Weiming Zhu5, FACSM6. Tsinghua University, Beijing, China. 7University of Illinois at Urbana-Champaign, Urbana, IL. (Sponsor: Weimo Zhu, FACSM)
(No relationships reported)

Board #183 9:30 AM - 11:00 AM
The Influence of Post-Exercise Cryotherapy on Circulating Testosterone
Andrew D. Sherman1, Disa L. Hatfield1, David R. Healy1, William J. Kraemer, FACSM2, Jacob E. Earp1. (Sponsor: Weimo Zhu, FACSM)
Email: Shermadr@uri.edu
(No relationships reported)

Board #184 9:30 AM - 11:00 AM
Pneumatic Compression Device Speeds Recovery from DOMS in Comparison to Compression Sleeve
Molly R. Winke, Shelby Williamson. Hanover College, Hanover, IN. (Sponsor: Bryant Stamford, FACSM)
Email: mwinke@hanover.edu
(No relationships reported)

Board #185 9:30 AM - 11:00 AM
Effects of Compression Socks on Muscle Recovery in Competitive Masters Endurance Athletes
Brittany M. Steers, John Farmer, IV, Jennifer Kirk-Sorrow, C. Matthew Lee, PhD, Marialice Kern, PhD, FACSM, James R. Bagley, PhD. San Francisco State University, San Francisco, CA. (Sponsor: Marialice Kern, PhD, FACSM)
Email: bsteers@sfsu.edu
(No relationships reported)

Board #186 9:30 AM - 11:00 AM
Acute Effects of Two Different Foam Rollers on Range of Motion
Isaac D. Henry, Jacilyn Olson, Melissa Powers, Jill Robinson, Ed Cuniff. University of Central Oklahoma, Edmond, OK.
Email: ihenry@uco.edu
(No relationships reported)
Board #193 8:00 AM - 9:30 AM
Adolescent Female Ball Players Oxygen Consumption and the Association to Playing Ability and Fitness Estimation
Dalya Navot Mintzer, Eyal Shargal, Idit Shub, Levana Zigél, Rotem Kislev-Cohen. Wingate Institute, Netanya, Israel. (Sponsor: Naama Constantini, FACSM) (No relationships reported)

Board #194 8:00 AM - 9:30 AM
Association Between Genu Valgus And Physical Activity, Adjusted To Chronological Age In Brazilian Males Adolescent
Andrea Cassimiro de Oliveira, Rafael Benito Mancini, João Pedro da Silva Junior, Luis Carlos de Oliveira, Timoteo Leandro de Araujo, Victor Matsudo. CELAFISCS, SÃO CAETANO DO SUL, Brazil. (No relationships reported)

Board #195 8:00 AM - 9:30 AM
Association Between Waist-to-Height Ratio And Fitnessgram® BMI Classification In Sixth-grade Children
John L. Walker, FACSM1, Tinker D. Murray, FACSM1, James Eldridge, FACSM2, William G. Squires, Jr., FACSM3. 1Texas State University, San Marcos, TX. 2University of Texas of the Permian Basin, Odessa, TX. 3Texas Lutheran University, Seguin, TX. Email: jlw18@txstate.edu (No relationships reported)

Board #196 8:00 AM - 9:30 AM
Correlation Between Varying Back Squat Depths On Speed And Vertical Jump Performance In North American High School Football Players
Nicholas Farrell1, Kent J. Adams, FACSM2, Joseph Herning, FACSM3, Mark DeBeliso, FACSM1. 1Southern Utah University, Cedar City, UT. 2California State University Monterey Bay, Seaside, CA. 3New Mexico State University, Las Cruces, NM. (Sponsor: Mark DeBeliso, FACSM) Email: nicholasfarrell@usu.edu (No relationships reported)

Board #197 8:00 AM - 9:30 AM
Metabolic Cost of Battling Rope Exercise In Children
Avery D. Faigenbaum, FACSM, Jie Kang, FACSM, Anne Farrell, Nicholas A. Ratamess, Stephanie Golda, Andrew Stranieri, Jordan Coe, Jill A. Bush, FACSM. The College of New Jersey, Ewing, NJ. Email: faigenbaum@tcnj.edu (No relationships reported)

Board #198 8:00 AM - 9:30 AM
Changes in VO2max Are Not Associated with Ventricular Morphology or Function In Female Youth Athletes
Carol Coutinho, Andrew Watson, Stacey Brickson. University of Wisconsin-Madison, Madison, WI. (No relationships reported)

Board #199 8:00 AM - 9:30 AM
Muscle Strength Thresholds For The Detection Of Cardiometabolic Risk Among Colombian Children And Adolescents: The Fuprecol Study
Hjonatan Camilo Peña-Ibagon1, Felipe Lobelo,1 Antonio Garcia-Hernos1, Daniel H. Prieto-Benavidez1, Jorge E. Correa-Bautista1, Robinson Ramirez-Vélez1. 1Centro de Estudios para la Medición de la Actividad Física e CEMAs. Escuela de Medicina y Ciencias de la Salud, Universidad del Rosario, Bogotá D.C, Co, Bogotá, Colombia. 2Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA. 3Laboratorio de Ciencias de la Actividad Física, el Deporte y la Salud, Universidad de Santiago de Chile, Santiago, Chile. Email: robin640@hotmail.com (No relationships reported)
8:00 AM - 9:30 AM

**Board #206**

**Vertical Jump Performance Predicts Selection Of Young Talented Volleyball Players For The Junior National Team**


Email: atsoukos@phed.uoa.gr

(No relationships reported)

**Board #207**

**Comparison Of Cardiorespiratory Fitness Testing Measures In Young Children**

Michael C. Taylor, Jr, Shannon E. Vinci, Justin M. Thomas, Cassandra M. Blase, Rosie K. LaCoe, Jody L. Classy, FACSM. University of Kentucky, Lexington, KY. (Sponsor: Jody L. Classy, FACSM)

(No relationships reported)

**Board #208**

**Comparison of Health Related Fitness Variables between Male and Female Youths in Singapore**

Yew Cheo Ng1, Govindasamy Balasekaran, FACSM1, Stanley Sai-Chuan Hui, FACSM2, Vivaswarasuth Victor Govindaswamy2, Dianna Thor1, Jelene Lim1, Peggy Boey1. 1Nanyang Technological University, Singapore, Singapore; 2The Chinese University of Hong Kong, Shatin, Hong Kong; 3Concordia University Chicago, Chicago, IL.

Email: yewcheo@gmail.com

(No relationships reported)

**Board #209**

**Effects of Backward Walking on Balance in Children**

Lang Qin, Yuanyang Liao. Chengdu Sport University, Chengdu, China. (Sponsor: Tongjian You, FACSM)

Email: 250909326@qq.com

(No relationships reported)

**Board #210**

**Test-retest Reliability Of The 40-yd Dash And Vertical Jump Assessments In Youth Athletes**

Brianna D. McKay1, Amelia A. Miramonti2, Nathaniel D.M. Jenkins3, Zachary Gillen1, Todd J. Leutzinger1. 1University of Nebraska - Lincoln, Lincoln, NE; 2Oklahoma State University, Stillwater, OK; 3Sponsor: Dr. Joel Cramer, FACSM

Email: bdmckay10@gmail.com

(No relationships reported)

**Board #211**

**Research On The Influence Of Exercise Brain Structure And Function In The Resting State Of Children With Febrile Convulsion**

zhiping zhai1, Hanran Li2, chao luo3, liangyi hu1. 1Beijing normal university, beijing, China; 2China University of Mining and Technology (Beijing), beijing, China.

Email: z2zpxti@bnu.edu.cn

(No relationships reported)

**Board #212**

**Activity and Fitness in Recreational and Competitive Youth Rock Climbers.**

Shannon R. Siegel, FACSM1, Martin R. Lindley2. 1University of San Francisco, San Francisco, CA; 2Loughborough University, Loughborough, United Kingdom.

Email: siegels@usfca.edu

(No relationships reported)

**Board #213**

**Effect of Modified Tai Chi Exercise on Physical Function among Chinese High School Students**

lulu gao1, Wei Sun2, Nan Ye2. 1Capital University of Physical Education and Sports, Beijing, China; 2Shandong Institute of Sports Science and Technology, Jinan, China.

Email: 271585838@qq.com

(No relationships reported)
Board #221
9:30 AM - 11:00 AM
The Effects Of Myplate And Paleolithic-based Diets Recommendations, With And Without Exercise, In Women.
Collin Popp, Michelle Bohan Brown, William Bridges, Elliot Jesch. Clemson University, Clemson, SC. (No relationships reported)

Board #222
9:30 AM - 11:00 AM
Asymmetries In Sloved On-transient V̇e and VO₂ Kinetics Are Not A Consequence Of Age In HFpEF
Erik H. Van Iterson, Hector R. Villarraga, Lara F. Nholah, Carolynn M. Larsen, Benjamin S. Simmons, Eric J. Bruhn, Thomas P. Olson. FACSM. Mayo Clinic, Rochester, MN. (No relationships reported)

Board #223
9:30 AM - 11:00 AM
Effect Of Ankle Plantar Flexion On ACL Strain During Landing From A Jump
Cameron Trepeck, Weston Kirschbaum, Mark P. Dioma, Oren Masory, Javad Hashemi. Florida Atlantic University, Boca Raton, FL. (No relationships reported)

Board #224
9:30 AM - 11:00 AM
Acute Aerobic Exercise Stimulates ATP Production Rate Similarly In Subarcosoleal and Intermuscular Muscle Mitochondria in Humans
Christos S. Katsanos1, Katon Kras1, Wayne T. Willis1, Lori Roust2. 1Arizona State University / Mayo Clinic in Arizona, Scottsdale, AZ. 2Mayo Clinic in Arizona, Scottsdale, AZ. (No relationships reported)

Board #225
9:30 AM - 11:00 AM
Acute Exercise Increases STARS mRNA in Human Skeletal Muscle
Stefan Reitner, Eva-Karin Gidlund, Carl Johan Sundberg. Karolinska Institutet, Stockholm, Sweden. (No relationships reported)

Board #226
9:30 AM - 11:00 AM
Occupational And Leisure-time Physical Activity And Risk Of Disability Pension: Prospective Data From The Hunt Study, Norway
Marius S. Finland1, Gunnhild Vie2, Andreas Holtermann2, Steinar Krookstad1, Tom IL Nilsen1. 1University of San Jorge. Villanueva de Gállego. Zaragoza-GENUD Toledo Research Group, University of Castilla-La Mancha, Toledo, Spain. 2Defense University Center-GENUD Research Group, University of Zaragoza-Spanish Biomedical Research Centre in Physiopathology of Obesity and Nutrition (CIBERObn)-AgriFood Institute of Aragon (IA2)-Faculty of Health and Sport Sciences (FCSD). Zaragoza, Spain. (No relationships reported)

Board #227
9:30 AM - 11:00 AM
Physical Activity Level and Androgen Concentrations are Independently and Additively Associated with Cardiovascular Disease Risk in Men.
Lauren C. Chasland1, Matthew W. Knaiman1, Mark L. Divittini1, Yi X. Chai1, David J. Handelsman1, Louise H. Naylor1, Bu B. Yeo1, Daniel J. Green1. 1University of Western Australia, Perth, Australia. 2Fiona Stanley Hospital, Perth, Australia. 3ANZAC Research Institute, Sydney, Australia. (No relationships reported)

Board #228
9:30 AM - 11:00 AM
Building Healthy Communities: A Comprehensive School Health Program to Prevent Chronic Disease
Erin E. Centeno1, Nate McCAughtry1, Whitney Moore1, Alex Gann2, Mariane Fahlman, FACSM3, Jeffrey Martin1, Noud Kullik1, 1Wayne State University, Detroit, MI. 2Louisiana State University, Baton Rouge, LA. (No relationships reported)
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<td>Dietary Nitrate and Muscle Power with Aging</td>
<td>9:30 AM - 11:00 AM</td>
<td>Andrew R. Coggan, FACSM, Joshua L. Leibowitz, Deana Mikhailkova, Dukkota Thies, Seth B. Broadstreet, Suzanne Waller, Linda R. Peterson, Indiana University Purdue University Indianapolis, Indianapolis, IN. Washington University School of Medicine, St. Louis, MO.</td>
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<td>Effect Of Dietary Nitrate Supplementation On The Development Of Neuromuscular Fatigue During Whole Body Exercise</td>
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<td>Taylor S. Thurston, Thomas J. Hureau, Joshua C. Weavil, Jayson R. Gifford, Hsuan-Yu Wan, David T. La Salle, Russell S. Richardson, Markus Amann, University of Utah, Salt Lake City, UT.</td>
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<td>Influence of Physical Activity Patterns and Age on Acute Mountain Sickness Incidence during Mt. Kilimanjaro Trek</td>
<td>9:30 AM - 11:00 AM</td>
<td>Giirish Pathangey, Courtney M. Wheatley, Alex R. Carson, Glenn M. Stewart, Kirsten E. Coffinara, Amine N. Issa, Norman D. Morris, Jan Stepanek, Bruce D. Johnson, Mayo Clinic, Scottsdale, AZ.</td>
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<td>The Response Of Plasma Hypoxia-inducible Factor-1 Alpha, Serum Erythropoietin And Plasma Vascular Endothelial Growth Factor During Acute Exposure To Altitude (4300 M)</td>
<td>9:30 AM - 11:00 AM</td>
<td>Roy Salgado, Beth Beidleman, United States Army Research Institute of Environmental Medicine, Natick, MA.</td>
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<td>#240</td>
<td>Stress And Well-Being Of Correctional Officers</td>
<td>9:30 AM - 11:00 AM</td>
<td>Kerry S. Kuehl, Diane L. Elliott, FACSM, Oregon Health &amp; Science University, Portland, OR.</td>
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<td>#242</td>
<td>Development Of A Novel Grading Scale Based On The ULNT1 And BPTT</td>
<td>9:30 AM - 11:00 AM</td>
<td>Mark W. Butler, Mary Lou Galantino, M. Alysia Mastrangelo, FACSM. NovaCare Rehabilitation, Medford, NJ. Stockton University, Galloway, NJ.</td>
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<td>#243</td>
<td>Impact of Attention Deficit Hyperactivity Disorder on Athletes</td>
<td>9:30 AM - 11:00 AM</td>
<td>Timothy M. Dekker, Mayo Clinic, Jacksonville, FL.</td>
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<td>#244</td>
<td>Understanding Injury and Injury Prevention in Paralympic Sport</td>
<td>9:30 AM - 11:00 AM</td>
<td>Marcus Fearing, Shana Harrington, Creighton University School of Medicine, Omaha, NE. University of South Carolina, Columbia, SC.</td>
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<td>#245</td>
<td>Minute Porosity of 3D Printed Splints and Casts May Allow Water Entry</td>
<td>9:30 AM - 11:00 AM</td>
<td>Diana Hall, Frank Roxquemore, Jay Townsend, Bill Bentley, David Atkins, Lex Schultheis, ActivArmor, Pueblo, CO.</td>
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<td>Creatine Kinase, Glomerular Filtration Rate and Military Physical Activity during 2012 Comandos Course</td>
<td>9:30 AM - 11:00 AM</td>
<td>NILTON G. ROLIM FILHO. EB/CNPq/FADEUP, Porto, Portugal.</td>
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<td>Resistance Training Versus General Exercise In Multidisciplinary Rehabilitation Of Low Back Pain: A Randomized Trial</td>
<td>9:30 AM - 11:00 AM</td>
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<td>Characterization And Functional Capacity (SPPP) Of Adults Over The Age Of Life Free From Mexico</td>
<td>9:30 AM - 11:00 AM</td>
<td>Nancy Cristina Banda Saucedo, Ricardo López García, Gerardo Garza Sepúlveda, Alma Rosa Liáda Lozano González, Raymundo Ruiz Rivera, Esteban Picazzo Palencia, FACSM, Rosa María Cruz Castruita. Universidad Autónoma de Nuevo León, Monterrey, Mexico.</td>
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<td>#249</td>
<td>Effect Of Stretching On Intracerebral Oxygen Dynamics And Calculation Capability</td>
<td>9:30 AM - 11:00 AM</td>
<td>Wakako Tsuchida, Shigeyuki Suzuki, Shingo Matsuo, Sena Wakano, Mayu Asakawa, Taizan Fukaya, Eiji Yamanaka, Yuji Asai, Nihon Fukushi University, Handa, Aichi, Japan. Nagoya University, Aichi, Japan.</td>
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<td>#250</td>
<td>Feasibility and Efficacy of Aerobic Exercise Training in Cognitively Impaired Older Adults</td>
<td>9:30 AM - 11:00 AM</td>
<td>Marcel Turner, Takashi Tarumi, Jonathan Riley, Justin Repshas, Candace Hill, Tammy Lewis, Rong Zhang, Institute for Exercise and Environmental Medicine, Dallas, TX. University of Texas Southwestern Medical Center, Dallas, TX.</td>
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<td>#251</td>
<td>Recent Illness but Not Prior Heat Injury Affects the Rate of Cooling Following Exertional Heat Stroke</td>
<td>9:30 AM - 11:00 AM</td>
<td>Michelle A. King, Matthew Ward, Bruce Adams, Lisa Leon, United States Army Research Institute of Environmental Medicine, Natick, MA.</td>
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G-37  Free Communication/Poster - Sports Medicine Fellow Research Abstracts

Saturday, June 3, 2017, 7:30 AM - 11:00 AM
Room: Hall F

3805  Board #252  9:30 AM - 11:00 AM
Do Female Gymnasts Experience Catch-up Growth During Periods of Rest Following Injury?
Katherine V. Yao, Dai Sugimoto, Nathalie Slick, Cynthia Stein. Boston Children’s Hospital, Boston, MA. (No relationships reported)

3806  Board #253  9:30 AM - 11:00 AM
Helmet Design And Hits To The Head: Analysis Of Nfl Tackling 1951-present
Kevin N. Blythe1, David Wang2, Taylor Polk1, Douglass Johnson1, Jordan Murphy3, Brian McCormick4, Alex Webb5, Andrew Horn1, David Milzman1. 1MedStar Georgetown University Hospital, Washington, DC; 2Georgetown University School of Medicine, Washington, DC. (No relationships reported)

3807  Board #254  9:30 AM - 11:00 AM
Does CTHRC1 Affect Serum Lipid Profiles in Adults?
James Alex1, William Dexter, FACSM1, Christina Holt1, Amy Haskins2, Volkhard Lindner2. 1Maine Medical Center, Portland, ME; 2Maine Medical Center Research Institute, Scarborough, ME. (Sponsor: William Dexter, MD, FACSM)

3808  Board #255  9:30 AM - 11:00 AM
Use Of FEV1/FVC For Diagnosis Of Exercise-induced Bronchoconstriction (EIB) In Adolescents
Rebecca Breslow, Kathryn Ackerman, FACSM, Carter Petty, Katherine Cooper, Dawn Ericson. Boston Children’s Hospital, Boston, MA. (Sponsor: Kathryn Ackerman, FACSM)

3809  Board #256  9:30 AM - 11:00 AM
Joint Injection Teaching of Internal Medicine Residents
Michael Seifert. Maine Medical Center, Portland, ME. (Sponsor: Heather Gillespie, FACSM)

3810  Board #257  9:30 AM - 11:00 AM
Athlete Risk Correlation Study: Psychosocial Determinants Of Musculoskeletal Injury Risk
Vicki Nelson1, Christina Thompson2, Christopher Tangen2. 1Greenville Health System, Greenville, SC; 2University Hospitals Cleveland, Cleveland, OH. (Sponsor: Kyle Cassas, FACSM)

3811  Board #258  9:30 AM - 11:00 AM
Preliminary Results from a Prospective Study Using the Female Athlete Triad Cumulative Risk Assessment
Emily Kraus1, Aurelia Nattiv, FACSM1, Adam Tenforde1, Andrea Kussman1, Michelle Barrack1, Brian Kim2, Megan Deakins-Roche2, Nika Misra1, Sonal Singh1, Michael Frederico, FACSM1. 1Stanford Hospital and Clinics, Redwood City, CA; 2University of California - Los Angeles, Los Angeles, CA; 3Spaulding National Running Center, Boston, MA; 4California State University - Long Beach, Long Beach, CA; 5University of California - Irvine, Irvine, CA. (No relationships reported)

3812  Board #259  9:30 AM - 11:00 AM
Improving Ppr Production In An Outpatient Sports Medicine Office: A QI Project
William L. Patterson Jr, William Dexter, FACSM, Christina Holt, Amy Haskins. Maine Medical Center, Portland, ME. (No relationships reported)

G-38  President’s Lecture - Interval Training for Health: Hype, Help and Hope
Saturday, June 3, 2017, 11:15 AM - 12:05 PM
Room: 104

3813  Board #260  9:30 AM - 11:00 AM
Utilization of Emergency Department Services: A Comparison of High Schools With and Without Athletic Trainers
Christine Bender, William W. Dexter, FACSM, Amy Haskins, Christina Holt. Maine Medical Center, Portland, ME. (Sponsor: William W. Dexter, FACSM)
(No relationships reported)

3814  Board #261  9:30 AM - 11:00 AM
Opioid Prescription Practices for Pediatric Musculoskeletal Injuries
Erin Moix Grieb, Jane Gralla, Ariel Kiyomi Daoud, Julie Wilson, Christopher Hoyte. University of Colorado, Denver, CO. (Sponsor: John Hill, FACSM)
(No relationships reported)

G-39  President’s Lecture - No Sweat: The Surprising Science Behind Lasting Motivation and Sustained Physical Activity
Saturday, June 3, 2017, 11:15 AM - 12:05 PM
Room: 110

Despite over 30 years of marketing and promoting exercise to the general population the majority are still not regularly physically active. Have you ever wondered why it is that most people choose not to move given the multitude of evidence-based health and well-being benefits? This presentation will explain the surprising reasons why our promotion of exercise and physical activity keeps people stuck in a cycle of starting and stopping but not sustainability. Segar will present new communication and intervention strategies to cultivate physical activity motivation and maintenance based on science related to neuroscience, decision making, motivation, and adherence. During this presentation, attendees will have “ah ha’s” and leave with practical easy-to-implement insights about how to more strategically promote exercise to diverse populations. This presentation will be of interest to academics, public health professionals, clinicians, fitness professionals, health coaches, app developers, educators, and the media.

3815  Board #262  9:30 AM - 11:00 AM
Introducing the Emotion-Driven Approach to Motivation and Sustained Physical Activity
Michelle Segat. University of Michigan, Ann Arbor, MI. (No relationships reported)

3816  Board #263  9:30 AM - 11:00 AM
Increasing Physical Activity in the Workplace: A Step Toward Promoting Health and Well-Being
Katherine K. Koo, Richard P. Blumenthal, FACSM. Connecticut Institute for palms, Storrs, CT. (No relationships reported)

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