

PRELIMINARY PROGRAM

ICFSR 2018

International Conference on
Frailty & Sarcopenia Research

International Academy Nutrition and Aging

March 1-3, 2018 • Miami Beach, FL USA

Meeting Place:

MIAMI BEACH RESORT AND SPA 4833 COLLINS AVENUE MIAMI BEACH, FLORIDA 33140 USA



8th EDITION



All abstracts and proceedings will be published in the Journal of Frailty and Aging (JFA) www.jfrailtyaging.com

www.icfsr.com

Preliminary Program • Thursday 1st March 2018

9:00/9:30

Welcome

Jorge Ruiz (Miami, USA), Roger Fielding (Boston, USA), Marco Pahor (Gainesville, USA), Bruno Vellas (Toulouse, France)

Presentation of the ICFSR Lifetime Achievement Award:

Linda Fried (Columbia University New York, NY, USA)

9:30/10:00

KEYNOTE 1

Frailty: What's been done and what needs doing

Linda Fried Columbia University New York, NY, USA

10:00/10:30

KEYNOTE 2

Muscle cell regenerative capacity and aging

Charlotte A. Peterson University of Kentucky Lexington, KY, USA

10:30-11:00

COFFEE BREAK

BALLROOM 1 • FRAILTY

11:00/12:00

SYMPOSIUM 1

The ENabling Reduction of low-Grade Inflammation in SEniors (ENRGISE) pilot trial to avert inflammation, mobility loss, and frailty: early results

Moderator: Stephen B. Kritchevsky, PhD1 - (1) Division of Gerontology and Geriatric Medicine, Wake Forest School of Medicine, Winston-Salem, NC, USA

- The Design and Rationale of the ENRGISE Study

Marco Pahor, MD, Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA

- The ENRGISE Pilot Study: Screening, Recruitment and Retention Preliminary Results

Jane Cauley, DrPH Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA

- The Relationship between IL-6 levels and physical function in older adults with chronic low-grade inflammation

Carlo Custodero, MD Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA

12:00/12:30

KEYNOTE 3

Stems cells for frailty : rational, biological and clinical impact

Joshua M. Hare, MD Longeveron LLC, Miami, FL USA

12:30/1:30

LUNCH BREAK

1:30/ 2:30

SYMPOSIUM 2

Frailty Research at the Veterans Affairs GRECCs (Geriatric Research Education and Clinical Center)

Moderator: Jorge G. Ruiz, MD - Miami VAHS GRECC and University of Miami Miller School of Medicine, Miami, Florida, USA.

- An automated cumulative deficit index to identify frailty in the VA

Jane Driver, MD - New England GRECC, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA

- Metformin: A Potential Intervention for Preventing Frailty in Older Adults with Pre-Diabetes.

Sara E. Espinoza, M.D., M.Sc., AGSF - San Antonio GRECC and Barshop Institute for Longevity and Aging Studies, University of Texas Health Science Center at San Antonio, Texas, USA

- Physical Resilience and Frailty

Heather E. Whitson, MD, MHS Durham VA GRECC, and Duke University Aging Center, Duke University School of Medicine, Durham, North Carolina, USA

2:30h/3:30

ORAL COMMUNICATIONS

2:30

OC 1: The relationship between T-cell responses to cytomegalovirus (CMV) and onset of frailty in HIV- and IV+ men in the Multicenter AIDS Cohort Study (MACS)

Margolick JB- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Bream JH- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Nilles TL- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Li H- Division of Geriatric Medicine and Gerontology, Department of Medicine, Johns Hopkins School of Medicine Langan SL- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Deng S- Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health Wang R- Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Wada N- Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Leng SX- Division of Geriatric Medicine and Gerontology, Department of Medicine, Johns Hopkins School of Medicine

2:45

OC 2: Manual (stopwatch) and instrumental (gaitrite) evaluation of 4-meter preferred walking speed in older subjects with physical frailty

Marcello Maggio (Clinic Geriatric Unit Department of Medicine and Surgery, University of Parma), Yari Longobucco, Valentina Angileri, Sara Tagliaferri (Department of Medicine and Surgery, University of Parma), Fulvio Lauretani (Department of Medicine and Surgery, University of Parma)

3:00 **OC 3: Frailty and multimorbidity: a systematic review and meta-analysis**
 Davide L Vetrano, MD 1,2 *, Katie Palmer, PhD 3 *, Alessandra Marengoni, MD, PhD 4, Emanuele Marzetti, MD, PhD 2, Fabrizia Lattanzio, MD, PhD 5, Regina Roller-Wirnsberger, MD, MME 6, Luz Lopez Samaniego, PhD 7, Leocadio Rodríguez-Mañás, MD, PhD 8, Roberto Bernabei, MD 2, and Graziano Onder, MD, PhD 2 on behalf of the Joint Action ADVANTAGE WP4 group. 1 Aging Research Center, Department of Neurobiology, Health Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden 2 Department of Geriatrics, Catholic University of Rome, Italy 3 San Camillo Hospital IRCCS, Venice, Italy 4 Department of Clinical and Experimental Sciences, University of Brescia, Italy 5 Scientific Direction, Italian National Research Centre on Aging, Ancona, Italy 6 Department of Internal Medicine, Medical University of Graz, Austria 7 Andalusian Public Foundation of Progress and Health, Regional Ministry of Health of Andalusia, Spain 8 Geriatric Department, Hospital Universitario de Getafe, Madrid, Spain

3:15 **OC4: Health care utilization in non-geriatric patients with frailty phenotype**
 Miriam Zylberg-lait Lisigurski, MD Carmen Cartwright, MD Sharmila Ravindranathan, MD Sameer Shaharyar, MD - Osman Perez, MD Aimee Almanzar, MD Jasdip Grewal, MD Saied Alsabagh, MD Internal Medicine Residency Training Program. Aventura Hospital and Medical Center USA

3:30/4:00 **COFFEE BREAK**

4:00/5:00 **SYMPOSIUM 3**
WHO-ESCEO Symposium: "Assessment of Physical Performance in daily clinical practice: Outcomes of an Experts' consensus meeting organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) under the auspices of the World Health Organization"
 Moderators: *Islene Araujo de Carvalho - René Rizzoli*

- **Welcome:** *Jean-Yves Reginster*
- **Scope of the problem:** *Cyrus Cooper*
- **Recommendations for the standardization of the assessment of physical performance:** *Alfonso Cruz Jentoft*
- **Recommendations for the standardization of the assessment of muscle strength and power:** *Jürgen Bauer*
- **Discussion leader:** *Jean-Marc Kaufman*
- **Conclusion:** *Olivier Bruyère*

BALLROOM 2 • SARCOPENIA

11:00/12:00 **SYMPOSIUM 4**
The critical role of periodic Inactivity and Muscle disuse in worsening sarcopenia and Hastening Disability and Frailty
 Moderator: *Stuart Philips, PHD, department of kinesiology McMaster University Hamilton Canada*

- **Mechanisms of muscle loss in older persons during disuse and their consequences**
Luc J.C. Van Loon Department of Human Biology NUTRIM School of Nutrition and Translational Research in Metabolism Maastricht, the Netherlands
- **Therapeutic Intervention and strategies to alleviate loss and promote recovery**
Douglas Paddon-Jones Department of Nutrition and Metabolism, The University of Texas Medical Branch Galveston USA
- **Reduced Activity Accelerates Sarcopenia and leads to metabolic Dysfunction in Aging**
Chris McGlory Department of kinesiology, Mc Master University Hamilton Canada

12:00/12:30 **ORAL COMMUNICATIONS**

12:00 **OC 5: Blockade of GDF8 and Activin A Lead to Increases in Thigh Muscle Volume in Healthy Postmenopausal Women: A Single Ascending Dose Study**
Stephen Donahue, Shazia Ali, Dinko Gonzalez Trotter, Zhizhi Qing, Joseph Yen, Evelyn Gasparino, Pretty Meier, Marcella Ruddy, and Gary Herman, Regeneron Pharmaceuticals, Inc., Tarrytown, NY USA

12:15 **OC 6: Psoas Muscle Area in Healthy Adults: Effect of Normal Aging and Derivation of Reference Values**
Samuel Mamane MD MSc (1), Christos Galatas MD (2), Wayne Lok (3), Mina Girgis MD (2), Chams Cherid (3), Louis Mullie MD (1), Amanda Trnkus MSc (3), Antoinette Colaone (4), Xiaqing Xue MSc (4), Marc Afilalo MD (4), Jonathan Afilalo MD MSc (2,3) (1) Division of General Internal Medicine, Jewish General Hospital, McGill University, Montreal, Canada (2) Division of Cardiology, Jewish General Hospital, McGill University, Montreal, Canada (3) Division of Epidemiology, Jewish General Hospital, Montreal, Canada (4) Department of Emergency Medicine, Jewish General Hospital, Montreal, Canada

12:30/1:30 **LUNCH BREAK**

1:30/3:30 **ORAL COMMUNICATIONS**

1:30 **OC7: Effects of fast versus slow weight loss on body composition in postmenopausal women with obesity**
Radhika V Seimon, PhD1, Alice A Gibson1, Claudia Harper1, Sally McClintock1, Michelle SH Hsu1, Hamish A Fernando1, Tania P Markovic1,2, Janet Franklin2, Jackie Center3, Peter Y Liu4, Nuala M Byrne5, Amanda Sainsbury1 1 The Boden Institute of Obesity, Nutrition, Exercise & Eating Disorders, Sydney Medical School, Charles Perkins Centre, The University of Sydney, NSW, Australia; 2 Metabolism & Obesity Services, Royal Prince Alfred Hospital, NSW, Australia; 3 Bone Biology Division, Garvan Institute of Medical Research, St Vincent's Hospital Clinical School, UNSW, Sydney, Australia; 4 Division of Endocrinology, Department of Medicine, Harbor-UCLA Medical Center and Los Angeles BioMedical Research Institute, Los Angeles, CA, United States; 5 School of Health Sciences, Faculty of Health, University of Tasmania, TAS, Australia

- 1:45 **OC8: Effect of delta-tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle in obese male mice with insulin resistance**
*Eunhee Chung*¹, *Hayli E. Joiner*², *Salvatore N. Campise*¹, *Kassandra Gonzalez*¹, *Gurvinder Kaur*³, *Jannette M. Dufour*³, *Chwan-Li Shen*⁴. 1 Department of Kinesiology, Health, and Nutrition, University of Texas at San Antonio, San Antonio, TX. 2. Department of Kinesiology and Sport Management, Texas Tech University, Lubbock, TX. 3. Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX. 4. Department of Pathology, Texas Tech University Health Sciences Center, Lubbock, TX, USA
- 2:00 **OC9: Leveraging Non-physiological Aspects of NMES for Beneficial Neuromuscular Adaptations in Older Adults**
David W Russ, Ohio University Division of Physical Therapy, Athens, OH, USA - *Eric Leach*, Ohio University Division of Physical Therapy, Athens, OH, USA - *Brian C Clark*, Ohio Musculoskeletal and Neurological Institute (OMNI) at Ohio University, Athens, OH, USA
- 2:15 **OC10: SARC-F and Anthropometric Measures: Enhancing Sarcopenia Screening in Clinical Practice**
Wee-Shiong Lim^{1,2}, *Laura Tay*³, *Audrey Yeo*², *Suzanne Yew*², *Noor Hafizah*^{2,4}, *Yew-Yoong Ding*^{1,2}, *Solomon Yu*^{5,6}. 1 Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore 2 Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore 3 Department of General Medicine (Geriatric Medicine), Sengkang General Hospital, Singapore 4 Department of Continuing and Community Care, Tan Tock Seng Hospital, Singapore 5 National Health and Medical Research Council of Australia Centre of Research Excellence Frailty Transdisciplinary Research to Achieve Healthy Ageing, University of Adelaide, Adelaide, South Australia, Australia 6 Aged and Extended Care Service, The Queen Elizabeth Hospital, Central Adelaide Local Health Network, Australia.
- 2:30 **OC11: Clinical Muscle Weakness is Associated with Mortality in a Nationally Representative Sample of Older Adults: The Health and Retirement Study**
Kate Duchowny, MPH¹, *Mark Peterson*, PhD², *Philippa Clarke*, PhD^{1,3} - 1 Department of Epidemiology, University of Michigan School of Public Health, Ann Arbor, MI 2 Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI 3 Institute for Social Research, University of Michigan, Ann Arbor, MI USA
- 2:45 **OC12: Combined effects of BIO101 on anabolism and mitochondrial function in skeletal muscle cells**
Maria Serova, *Sissi On*, Biophytis, UPMC, BC9, 4 place Jussieu, 75005 Paris, France *Blaise Didry-Barca*, *Stanislas Veillet René Lafont*, Sorbonne Universités, UPMC Univ Paris 06, Paris-Seine Biology Institute (BIOSEIPE), CNRS, 75005 Paris, France *Pierre Dilda*, Biophytis, UPMC, BC9, 4 place Jussieu, 75005 Paris, France
- 3:00 **OC13: Weight Change and Risk of FNII Sarcopenia Project Low Lean Mass**
John A. Batsis, MD^{1,2,3}, *Rebecca S. Crow*, DO, *Curtis Petersen*, MPH³, *Courtney J. Stevens*, PhD¹, *Todd A. Mackenzie*, PhD^{1,2,3}, *Stephen J. Bartels*, MD, MS^{1,2,3} - 1 Geisel School of Medicine at Dartmouth, Hanover, New Hampshire, United States - 2 Department of Medicine, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, United States 3 The Dartmouth Institute for Health Policy, Lebanon, New Hampshire, USA
- 3h:15 **OC14: Inter- and intra-reader precision errors of volume of muscle and IMAT of the thigh in T1-Weighted Magnetic Resonance Imaging**
Klaus Engelke, Institute of Medical Physics, University of Erlangen & Bioclinica, Inc, Hamburg, Germany - 2. *Dinko González Trotter*, Regeneron Pharmaceuticals, Inc., Tarrytown, NY - 3. *Ken Gaithey*, Bioclinica, Inc, Portland, OR 4. *Stephen Donahue*, Regeneron Pharmaceuticals, Inc., Tarrytown, NY - 5. *Shazia Ali*, Regeneron Pharmaceuticals, Inc., Tarrytown, NY - 6. *Marcella Ruddy*, Regeneron Pharmaceuticals, Inc., Tarrytown, NY - 7. *Joseph Yen*, Regeneron Pharmaceuticals, Inc., Tarrytown, NY - 8. *Gary Herman*, Regeneron Pharmaceuticals, Inc., Tarrytown, NY 9. *Joyce Harp*, Regeneron Pharmaceuticals, Inc., Tarrytown, NY - 10. *Thomas Fuerst*, Bioclinica, Inc, Newark, CA
- 3:30/4:00 **COFFEE BREAK**
- 4:00/5:00 **ORAL COMMUNICATIONS**
- 4:00 **OC15: Muscular, visuospatial processing, and neuromotor factors as predictors of physical function in older adults**
Nathan P. Wages, PhD^{1,2}, *Leatha A. Clark*, DPT, MS^{1,2,4}, *Andrew M. Bryant*, MA^{1,5}, *Julie A. Suhr*, PhD^{1,5}, *Todd M. Manini*, PhD⁶, and *Brian C. Clark*, PhD^{1,2,3} (1) Ohio Musculoskeletal and Neurological Institute (OMNI), Ohio University, Athens, OH, USA (2) Department of Biomedical Sciences, Ohio University, Athens, OH, USA (3) Department of Geriatric Medicine, Ohio University, Athens, OH, USA (4) - Department of Family Medicine, Ohio University, Athens, OH, USA (5) Department of Psychology, Ohio University, Athens, OH, USA (6) Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA
- 4:15 **OC16: New views on sarcopenia and dynapenia do we know the coherence?**
Heber A12, *Stöver K3*, *Bloch W1*, *Eichberg S3*, *Noirez P2* - (1) Institute of Cardiology & Sports Medicine, Department of Molecular & Cellular Sport Medicine, German Sport University - Cologne, Germany - (2) Institute of biomedical and epidemiological research in sport, EA7329, Université Paris Descartes, France - (3) Institute of Movement & Sport Gerontology, German Sport University Cologne, Germany
- 4:30 **OC17: 25-Hydroxyvitamin D and Sarcopenia in Older Adults: The Health ABC Study**
Denise K. Houston, PhD¹, *Janet A. Tooze*, PhD¹, *Marjolein Visser*, PhD², *Frances A. Tylavsky*, DPH, MS³, *Anne B. Newman*, MD, MPH⁴, *Tamara B. Harris*, MD, MS⁵, *Stephen B. Kritchevsky*, PhD¹ (1) Wake Forest School of Medicine, Winston Salem, NC, USA; (2) Vrije Universiteit, Amsterdam, The Netherlands; (3) University of Tennessee Health Science Center, Memphis, TN, USA; (4) University of Pittsburgh, Pittsburgh, PA, USA; (5) National Institute on Aging, Bethesda, MD, USA
- 4h45 **OC18: High endogenous BCAA levels are associated with muscle strength and signatures of myosteatosis: friends or foes?**
*Eleonora Poggiogalle*¹, *Mario Fontana*², *Giovanni Turriziani Colonna*¹, *Cecilia Mancini*¹, *Anna Maria Giusti*¹, *Lorenz Maria Donini*¹ - 1 Department of Experimental Medicine, Food Science and Human Nutrition Research Unit, Sapienza University, Rome, Italy - 2 Department of Biochemical Sciences, Sapienza University, Rome, Italy

BALLROOM 1 • SARCOPENIA

9:00/9:30	<p>KEYNOTE 4 Myostatin and other biomarkers of sarcopenia <i>Nathan Lebrasseur Mayo Clinic Rochester, NY USA</i></p>
9:30/10:00	<p>KEYNOTE 5 Nutrition, sarcopenia and frailty <i>Cornel Sieber F. Alexander-University Nuremberg, Germany</i></p>
10h00/10h30	<p>CONFERENCES</p>
10:00	<p>CONFERENCE 1 SPRINTT clinical trial update <i>Emanuele Marzetti, MD, PhD - Teaching Hospital "Agostino Gemelli", (Rome, Italy)</i></p>
10:15	<p>CONFERENCE 2 Insight into the Intersection between Sarcopenia and Frailty: Relationship between Muscle Mass and Frailty Status <i>Paulo H. M. Chaves, MD, PhD1, Benjamin Leon Center for Geriatrics Research and Education, Hebert Wertheim College of Medicine, Florida International University (Miami, USA)</i></p>
10:30-11h00	<p>COFFEE BREAK</p>
11:00/ 12:00	<p>SYMPOSIUM 5 Macrovascular and Microvascular Contributors to Sarcopenia in Aging and Disease <i>Moderator: Steven J. Prior, PhD ? University of Maryland</i></p> <ul style="list-style-type: none"> • Skeletal muscle capillarization as a determinant of muscle fiber size and muscle mass in the development of sarcopenia <i>Odessa Addison, DPT, PhD University of Maryland School of Medicine</i> • Endothelial function and nutritive flow as potential determinants of anabolic resistance and sarcopenia <i>Elena Volpi, MD, PhD University of Texas Medical Branch at Galveston</i> • Skeletal muscle capillarization and satellite cell function; Implications for interventions targeting sarcopenia. <i>Tim Snijders, PhD - Maastricht University Department of Human Biology and Movement Sciences</i>
12:00/12:30	<p>Keynote 6 Neuromuscular changes with aging and sarcopenia <i>Brian Clark Ohio University Athens, OH USA</i></p>
12:30/1:30	<p>LUNCH BREAK</p>
1:30/ 2:30	<p>SYMPOSIUM 6 Osteoporosis and sarcopenia : Two diseases or one ? <i>Moderator: Olivier Bruyère, MD PhD, Department of Public Health, Epidemiology and Health Economics, University of Liège, Liège, Belgium</i></p> <ul style="list-style-type: none"> • Lifetime course of muscle and bone wasting <i>Cyrus Cooper, MD Ph D, MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK</i> • Role of nutrition and physical exercise in the prevention of bone and muscle wasting <i>MD-René Rizzoli, MD PhD, Division of Bone Diseases, Faculty of Medicine, Geneva University Hospitals, Geneva, Switzerland</i> • What can we learn from osteoporosis to get a treatment against sarcopenia approved? <i>Jean-Yves Reginster, MD PhD, Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium</i>
2:30/3:30	<p>CONFERENCES</p>
2:30	<p>CONFERENCE 3 Sarcopenia in hospitalized older people: the Italian experience of glisten study <i>Francesco Landi, MD, PhD - Catholic University of the Sacred Heart, Rome, Italy</i></p>
2:45	<p>CONFERENCE 4 Sarcopenia and frailty guidelines update in Asia <i>Hidenori Arai, National Center for Geriatrics and Gerontology, Japan</i></p>
3:00	<p>CONFERENCE 5 A Novel non-pharmalogical intervention to improve physical health in obese elderly: citrulline with high intensity interval training. <i>Aubertin-Leheudre Mylène, PhD; Université du Québec Montréal, Quebec-Canada</i></p>

3:15 **CONFERENCE 6**
A Minimalist Approach to Power Training for Enhancing Lateral Balance Function and Mobility in Older Adults
Mario Inacio, PhD University of Maryland School of Medicine Department of Physical Therapy and Rehabilitation Science, MD, USA

3h30/4h **COFFEE BREAK**

4h/5h **LATE BREAKING NEWS**

4:00 LBN 1
 4:15 LBN 2
 4:30 LBN 3
 4:45 LBN 4

BALLROOM 2 • FRAILTY

9:00/10:00 **CONFERENCES**

9:00 **CONFERENCE 7**
How do we improve the quality of evidence from frailty interventional trials?
John Muscedere MD, FRCPC1 Scientific Director, Canadian Frailty Network, Queens University Kingston, Canada

9:15 **CONFERENCE 8**
European and North American Practices addressing Endocrine Issues in Older Adults with Frailty
Willy Marcos Valencia, MD 1,2, Carmen Castillo Gallego, MD PhD 3,4 Ana Alfaro-Acha, MD, PhD 4,5, Jose Losa-Reyna PhD 6 [1] Geriatrics Research, Education and Clinical Center (GRECC), Miami VA Medical Center, Miami (VAMC), FL, USA [2] Dpt. of Medicine, University of Miami, Miami, FL, USA [3] Hospital Virgen del Valle, Complejo Hospitalario de Toledo, Spain [4] CIBER of Frailty and Aging (CIBERFES), Toledo, Spain [5] Frailty Unit. Dpt. of Geriatric. Hospital Virgen del Valle of Toledo. Spain [6] GENUd (Growth, Exercise, Nutrition and Development) Research group, University of Toledo. Spain.

9:30 **CONFERENCE 9**
The Future of Frailty Management
Bertrand Fougère 1,2,3, Elsa Dent 4,5 1Gérontopôle, CHU de Toulouse, Toulouse, France. 2Inserm UMR1027,U de Toulouse III P Sabatier, Toulouse, France. 3 Division of Geriatric Medicine, St Louis University School of Medicine, St. Louis, Missouri, USA 4Torrens University of Australia, Australia 5Baker Heart and Diabetes Institute Melbourne, , Australia

9:45 **CONFERENCE 10**
Natural History of Frailty and Cognitive Impairment: Longitudinal Evidence from Two Population Studies
Qian-Li Xue, PhD1,2, (1) School of Medicine, Division of Geriatric Medicine and Gerontology, Johns Hopkins University, Baltimore, MD, USA (2) Johns Hopkins Center on Aging and Health, Johns Hopkins Medical Institutions, Baltimore, MD, USA

10:00/10:30 **ORAL COMMUNICATIONS**

10:00 **OC 19: Socioeconomic gradients in frailty, disability, and death process: Results from the Japan Gerontological Evaluation Study**
Takaaki Ikeda1,2; Jun Aida2; Toru Tsuboya2; Yusuke Matsuyama3,4; Shihoko Koyama2,5; Kemmyo Sugiyama; Katsunori Kondo6,7; Ken Osaka2 1. Department of Rehabilitation, Sendai Seiyo Gakuin College, Sendai. 2. Department of International and Community Oral Health, Tohoku University Graduate School of Dentistry, Sendai. 3. Department of Global Health Promotion, Tokyo Medical and Dental University, Tokyo. 4. Research Fellow of Japan Society for the Promotion of Science, Tokyo. 5. Tohoku Medical Megabank Organization, Tohoku University, Sendai. 6. Center for Preventive Medical Sciences, Chiba University, Chiba. 7. Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Aichi

10:15 **OC 20: Interleukin-6 and perceived fatigability among adults in mid-to-late life**
Amal A. Wanigatunga, PhD, MPH (1,2), Ravi Varadhan, PhD, PhD (2,3), Eleanor M. Simonsick, PhD (4), Stephanie Studenski, MD, MPH (4), Luigi Ferrucci, MD, PhD (4), Jennifer A. Schrack, PhD (1,2) - 1) Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA 2) Center on Aging and Health, Johns Hopkins University and Medical Institutions, Baltimore, Maryland, USA 3) Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA 4) Intramural Research Program, National Institute on Aging, Baltimore, Maryland, USA

10:30/11:00 **COFFEE BREAK**

11:00/12:00 **SYMPOSIUM 7**
The MID-FRAIL study. Effects of the first study a multimodal intervention in older frail/prefrail people with Diabetes Mellitus from a functional perspective . Changing the paradigm of approaching diabetes in older people
Moderators : Prof. Leocadio Rodriguez-Mañas MD, PhD Geriatric Department, Getafe University Hospital, Getafe, Madrid, Spain
 Prof. Alan J Sinclair, MD, PhD Foundation for Diabetes Research in Older People, Diabetes Frail, Medici Medical Practice, UK
 • **Why we undertook the European Mid-Frail Study and how the Intervention was defined?**
Prof. Alan J Sinclair, MD, PhD - Foundation for Diabetes Research in Older People, Diabetes Frail, Medici Medical Practice,UK
 • **Design and implementation of the MID-FRAIL study**
Olga Laosa, MD, PhD; Foundation of Biomedical Research, Getafe University Hospital, Getafe, Madrid, Spain
 • **Main results and conclusions**
Prof. Leocadio Rodriguez-Mañas MD, PhD; Geriatric Department, Getafe University Hospital, Getafe, Madrid, Spain

12:00/12:30

ORAL COMMUNICATIONS

12:00

OC 21: Identifying Frailty Using the Electronic Medical Record within a Medicare Accountable Care Organization
Nicholas M. Pajewski, PhD1, Kristin Lenoir, MS2, Brian J. Wells, MD, PhD2, Jeff D. Williamson, MD, MHS3, and Kathryn E. Callahan, MD, MS3 (1) Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA (2) Clinical and Translational Science Institute, Wake Forest School of Medicine, Winston-Salem, NC, USA (3) Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Wake Forest School of Medicine, Winston-Salem, NC, USA

12:15

OC 22: Multimodal interventions to prevent and manage cognitive frailty
Manuel Montero-Odasso MD, PhD 1,2,3, Quincy J. Almeida PhD4, Richard Camicioli MD 5, Karen Li PhD6, Teresa Liu-Ambrose PhD7, Laura Middleton PhD8, Louis Bherer PhD6,9* 1Department of Medicine, Division of Geriatric Medicine, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada.; 2Department of Epidemiology and Biostatistics, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada.; 3Gait and Brain Lab, Parkwood Institute, Lawson Health Research Institute, London, ON, Canada; 4Sun Life Financial Movement Disorders Research Centre, Wilfrid Laurier University; 5Geriatric and Cognitive Neurology, University of Alberta; 6Department of Psychology and PERFORM Centre, Concordia University; 7Department of Physical Therapy, University of British Columbia, Centre for Hip Health and Mobility, and Djavad Mowafaghian Centre for Brain Health, Vancouver Coastal Research Institute, University of British Columbia; 8Department of Kinesiology, University of Waterloo; 9Faculty of Medicine, University of Montreal, Montréal, Canada;

12:30/1:30

LUNCH BREAK

1:30/3:30

ORAL COMMUNICATIONS

1:30

OC23: Age-related decline in D3Cr muscle mass (but not DXA lean mass) is correlated with decline in walking speed

Peggy M. Cawthon (1,2), Katherine Peters (1), Eric S. Orwoll (3), Andrew Hoffman (4), Steven R. Cummings (1,2), Marc Hellerstein (5), William J. Evans (5,6) 1. California Pacific Medical Center Research Institute, San Francisco, CA, USA 2. University of California, San Francisco, CA, USA 3. Oregon Health and Sciences University, Portland, OR, USA 4. Stanford University, Stanford, CA, USA 5. University of California, Berkeley, CA USA 6. Duke University Durham, NC, USA,

1:45

OC24: High and low response to high intensity interval training correlates with distinct muscle miRNA mRNA profiles

Kenneth L. Seldeen Ph.D.1, Le Yang B.S.2, Jonathan Bard M.S.3, Merced Leiker M.S.1, Norma Nowak Ph.D.3, Yijun Sun Ph.D.2, Bruce R. Troen M.D.1 1. Division of Geriatrics and Palliative Medicine, Jacobs School of Medicine and Biomedical Sciences, University at Buffalo and Research Service, Veterans Affairs Western New York Healthcare System, Buffalo, NY, USA. 2. Department of Microbiology and Immunology, School of Medicine and Biomedical Sciences, University at Buffalo, Buffalo, NY, USA. 3. New York State Center of Excellence in Bioinformatics and Life Sciences and Department of Biochemistry, School of Medicine and Biomedical Sciences, University at Buffalo, Buffalo, NY, USA

2:00

OC25: How does frailty influence who gets dementia?

Lindsay Wallace, MSc1, Olga Theou, PhD1, Judith Godin, PhD1, Melissa Andrew, MD, PhD1,2, Kenneth Rockwood, MD1,2 (1)Department of Medicine, Dalhousie University, Halifax, Canada (2)Centre for Health Care of the Elderly, Nova Scotia Health Authority, Halifax, Canada

2:15

OC26: The role of homocysteine and B vitamins in telomere length: results from the cross-sectional and interventional trials

Irene Pusceddu1,2, Markus Herrmann3, Marcus Kleber4, Susanne H. Kirsch2, Christian Werner5, Graciela Delgado4, Ulrich Hübner2, Marion Bodis2, Angela M. Di Piero1, Silvia Giuliani1, Ulrich Laufs5, Stefan Wagenpfeil6, Jürgen Geisel2, Winfried März4, Wolfgang Herrmann1 1Department of Clinical Pathology, District Hospital Bolzano, Italy; 2Department of Clinical Chemistry and Laboratory Medicine, Saarland University Hospital, Germany; 3Clinical Institute for Medical and Chemical Laboratory Diagnostics Medical University of Graz; 4University of Mannheim, Germany; 5Department of Cardiology, Saarland University Hospital, Germany; 6Department of Biometry and Epidemiology, Saarland University Hospital, Germany

2:30

OC 27: MiRNAs and procollagen type III N-terminal peptide (P3NP) in Elderly

Del Punta V 1, Talluri E1,, Grillari J2,3, Hackl M2, Skalicky S2, Bandinelli S1 (1) Laboratory of Clinical Epidemiology, InCHIANTI Study Group, LHTC Local Health Tuscany Center, Florence, Italy (2) TAmiRNA GmbH, Vienna, Austria, (3) Christian Doppler Laboratory for the Biotechnology of Skin Aging, Vienna, Austria

2:45

OC28: Pre-Hospital Frailty and Incident Disability after Critical Illness Hospitalizations in Older Adults

Aluko A. Hope; Jammie Law; Rahul Nair; Michelle Ng. Gong; Department of Medicine, Division of Critical Care Medicine, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, New York USA

3:00

OC29: Microbiota and metabolic danger sensing contribute to sarcopenia

J Schertzer - Dr. Jonathan D. Schertzer, McMaster University McMaster University Hamilton Canada

3:15

OC30: Comparing objective and self-reported measures of frailty among community-dwelling older adults: a pilot study

Brian Buta, MHS1,2, Scott Zheng, BA1, Bukola Adeosun, BS2, Jackie Langdon, MS2, Jeremy Walston, MD1,2, Karen Bandeen-Roche, PhD1,2,3, Qian-Li Xue, PhD1,2 (1) Center on Aging and Health, Johns Hopkins University School of Medicine, Baltimore, MD, USA (2) Division of Geriatric Medicine & Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD, USA (3) Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

3:30/4:00

COFFEE BREAK

4:00/5:00

ORAL COMMUNICATIONS

4:00

OC31: Geroprotectors for multimorbidity and frailty: roadmap to clinical translation

Anne Ulrike Trendelenburg Novartis Institutes for Biomedical Research Cambridge MA USA

4:15

OC32: A novel app for assessing the individual's functions and intrinsic capacity

J Michel French Academy of Medicine Switzerland GENEVA

4:30

OC33: Muscle architecture: a useful tool to identify functional decline in inpatient older people?

Livia P. Carvalho PhD1,2, Dominic Martel MSc(c)1,2, Marco V. Narici PhD3, Marc Bonnefoy PhD4, Mylène Aubertin-Leheudre PhD1,2 (1) Department of Physical Activity Sciences, Université du Québec à Montréal, Montreal, QC, CA (2) Centre de Recherche de l'Institut de Gériatrie de Montréal (CRIUGM), Université de Montréal, Montreal, QC, Canada (3) MRC-ARUK Centre for Musculoskeletal Ageing Research, School of Medicine, University of Nottingham, Derby, UK (4) Centre Hospitalier Universitaire de Lyon Sud, Lyon, France

4:45

OC34: The effect of intentional weight loss on biomarkers of mortality in older adults with obesity

Lauren Shaver BS1, Daniel Beavers PhD2, Stephen Kritchevsky PhD3, Kristen Beavers PhD1. (1) Health and Exercise Science, (2) Biostatistics, and (3) Internal Medicine, Wake Forest University, Winston-Salem, NC., USA

BALLROOM 1 • FRAILTY IANA (International Academy on Nutrition and Aging)

9:00/9:30

CONFERENCES

9:00

CONFERENCE 11

New healthy ageing framework: updates from the WHO Clinical Consortium on Healthy Aging
Islene Araujo de Carvalho (Genève, Switzerland)

9:15

CONFERENCE 12

Cognitive Frailty: From Conceptual Proposal to Clinical Practice

Liang-Kung Chen^{1,3}, Hiroyuki Shimada², Li-Ning Peng^{1,3}, Chih-Kuang Liang^{1,3}, Hidenori Arai^{1,2}

¹National Yang Ming University, Taiwan; ²National Center for Geriatrics and Gerontology, Japan; ³Taipei Veterans General Hospital, Taiwan; and ⁴Kaohsiung Veterans General Hospital, Taiwan

9:30/10:30

SYMPOSIUM 8 - IANA

Musculoskeletal health throughout the lifespan: role of nutrition

Moderators: Leslie Chwan-Li Shen PhD, CCRP Texas Tech University Health Sciences Center, School of Medicine, Lubbock USA

Marc Hochberg MD, MPH, MACP University of Maryland Medical Center, School of Medicine, Baltimore USA

• *Robert McLean, D.Sc, MPH Institute for Aging Research, Harvard Medical School, Boston, MA USA*

• *Jane Cauley, Dr. PH Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA USA*

• *Virginia Kraus, MD, PhD Duke Molecular Physiology Institute, Duke University, Durham, NC USA*

Peggy Cawthon, PhD, MPH School of Medicine, University of California San Francisco, CA USA

10:30-11:00

COFFEE BREAK

11:00/12:00

SYMPOSIUM 9 - IANA

Nutrition, Frailty and Sarcopenia

• **Association of Leisure-Time Physical Activity with Low Lean Mass using the FNII Sarcopenia Project Cutpoints**

John A. Batsis, MD - Geisel School of Medicine at Dartmouth, Hanover, New Hampshire, United States-Department of Medicine, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, United States - The Dartmouth Institute for Health Policy, Lebanon, New Hampshire, USA

• **Association Between Dietary Intake and Skeletal Muscle Mass Changes after Weight Loss among Middle-aged and Older Men with Obesity**

Allison Morris, BS Division of Animal and Nutritional Sciences, West Virginia University, Morgantown, West Virginia USA

• **Influence of functional parameters, physical activity, and nutritional status on health related fatigue and physical function of older cancer patients**

Haritz Arrieta, MSc Department of Physiology, University of the Basque Country, Leioa, Bizkaia, Spain

• **Association between Dietary Quality and Leukocyte Telomere Length in a Middle-Aged Appalachian Population**

Margaret Drazba, BS Division of Animal and Nutritional Sciences, West Virginia University, Morgantown, West Virginia USA

12:00/12:30

ORAL COMMUNICATIONS

12:00

OC35: Frailty, Inflammation, and Mortality Among Patients with End-Stage Renal Disease

Mara A. McAdams-DeMarco PhD (1,2), Hao Ying ScM (1), Alvin G. Thomas MSPH (1), Fatima Warsame BS (1), Ashton A. Shaffer BA (1,2), Christine E. Haugen MD (1), Jacqueline M. Garonzik-Wang MD PhD (1), Niraj M. Desai MD (1), Ravi Varadhan PhD (3), Jeremy Walston MD (4), Silas P. Norman MD (5), Dorry L. Segev MD PhD (1,2) (1) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD. (2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD. (3) Department of Oncology, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD. (4) Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD. (5) Department of Internal Medicine, Division of Nephrology, University of Michigan School of Medicine, Ann Arbor, MI. USA

12:15

OC36: Role of the Serum Metabolome and Gut Microbiome on Lean Mass, Muscle Composition, and Physical Function in Older Adults

M. Lustgarten, Roger A. Fielding Tufts University HNRCA 711 Washington St. Boston Ma USA

12h30/1h30pm

LUNCH BREAK

BALLROOM 2 SARCOPENIA

9:00/10:30

ORAL COMMUNICATIONS

- 9:00 **OC37: Aging-associated changes in skeletal muscle morphology assessed by intramuscular adipose and connective tissue**
Jaclyn Sesso¹, Yoko Kato¹, Jeremy Walston¹, Karen Bandeen-Roche¹, Joao AC Lima¹, Bharath Ambale Venkatesh² ¹Johns Hopkins University, Baltimore, MD, USA, ²Radiology, Johns Hopkins University, Baltimore, MD
- 9:15 **OC38: The Temporal Relationship between Change in Muscle Mass and Change in Muscle Strength**
Nancy Chiles Shaffer, PhD1, Qu Tian, PhD1, Stephanie Studenski, MD, MPH1 ⁽¹⁾Longitudinal Studies Section, Translational Gerontology Branch, National Institute on Aging, National Institutes of Health, Baltimore, MD, 21225 USA
- 9:30 **OC39: The role of muscle ultrasound in the identification of muscle mass in physical frail individuals: comparison with traditional techniques and relationship with physical performance tests**
Andrea Ticinesi, Fulvio Lauretani, Mario Pedrazzoni, Sara Tagliaferri, Tiziana Meschi, Marcello Maggio, Marco Narici - Department of Biomedical sciences, University of Padova, Italy
- 9:45 **OC40: Normative values of knee extensors isokinetic strength for older women and implications on physical function**
Ricardo M. Lima, PhD1, Juscelia Cristina Pereira, MS1, Silvia Gonçalves Ricci Neri, MS1, Baruch Vainshelboim, PhD2, André Bonadias Gadelha, PhD1, Martim Bottaro, PhD1 ¹ Faculty of Physical Education, University of Brasília, Brasília, Distrito Federal, Brazil. ² Master of Cancer Care Program, School of Health Sciences, Saint Francis University, Loretto, PA, USA.
- 10:00 **OC41: A specific profile of circulating amino acids characterizes older persons with Physical frailty and Sarcopenia: results from the BIOSPHERE study**
Anna Picca, PhD, Federico Marini, PhD, Alessandra Biancolillo, PhD, Emanuele Marzetti, MD, PhD, Jacopo Gervasoni, PhD, Silvia Persichilli, PhD, Aniello Primiano, MSc, Francesco Landi, MD, PhD, Roberto Bernabei, MD, Riccardo Calvani, Ph - Catholic University of the Sacred Heart Italy Rome
- 10:15 **OC42: Body composition remodeling and incident mobility limitations in African Ancestry Men**
Adam J. Santanasto, PhD, MPH1 (presenting author), *Iva Miljkovic, MD, PhD1, Ryan K. Cvejkus, BS1, Christopher L. Gordon, PhD2, Victor W. Wheeler, MRCOG3, Clareann H. Bunker, PhD1, and Joseph M. Zmuda, PhD1,4* ⁽¹⁾ Department of Epidemiology, University of Pittsburgh ⁽²⁾ McMaster University, Hamilton, ON, Canada ⁽³⁾ Tobago Health Studies Office, Scarborough, Tobago, Trinidad & Tobago ⁽⁴⁾ Department of Human Genetics, University of Pittsburgh

10:30-11:00

COFFEE BREAK

11:00/12:30

ORAL COMMUNICATIONS

- 11:00 **OC43: Co-application of LMHFV and HMB Retards Sarcopenia by Reducing Intramyocellular Fat Infiltration in Sarcopenic Mice**
Wang J 1, Chow SKH 1, Wong RMY 1, Chim YN 1, Leung KS 1, Cheung WH 1 ¹ Department of Orthopaedics and Traumatology, Faculty of Medicine, the Chinese University of Hong Kong, Hong Kong
- 11:15 **OC44: SARA-OBS, an observational study dedicated to characterize age related sarcopenia population suitable for interventional studies**
Waly Diah, Carole Margalef, Gianluca Zia, Stanislas Veillet and Susanna Del Signore Biophysitis Paris, France
- 11:30 **OC45: Association of circulating miRNAs with sarcopenia: the Sarcopenia and Physical impairment with advancing Age study (SarcoPhage)**
Rousseau JC PhD1, Cavalier E PhD2, Beaudart C PhD3, Reginster JY MD-PhD3 Bruyère O MD-PhD3,4 and Chapurlat R, MD-PhD5 ⁽¹⁾ INSERM 1033, Lyon, France, ⁽²⁾ Department of Clinical Chemistry, University of Liège, Belgium, ⁽³⁾ Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium, ⁽⁴⁾ Department of Sports Sciences, University of Liège, Belgium ⁽⁵⁾ Hôpital E. Herriot, Hospices Civils de Lyon, France ; University of Lyon, France
- 11:45 **OC46: High protein intake and the maintenance of skeletal muscle during energy deficit combined with reduced daily activity in older adults**
Sara Y Oikawa, MSc1, Chris McGlory, PhD1, Nelson I Saddler, BSc1, Adrienne K Morgan, BSc1, Lisa K D'Souza, BSc1, Gianni Parise, PhD1, Stuart M Phillips, PhD1. ⁽¹⁾ Department of Kinesiology, McMaster University, Hamilton, Canada
- 12:00 **OC47: Sarcopenia and exercise intolerance in the old: new treatments that combine diet and exercise to build strength and endurance**
Kevin Conley, PhD1, Sophia Z. Liu, PhD1, Amir S. Ali, BS1, Baback Roshanravan, MD2, and Eric G. Shankland, PhD1, ⁽¹⁾ Departments of Radiology, and ⁽²⁾ Medicine, University of Washington, Seattle, WA 98195 USA
- 12:15 **OC48: Does combined osteopenia and sarcopenia confer greater risk of fracture than either condition alone in older men? The Concord Health and Ageing in Men Project**
Vasant Hirani: Discipline of Dietetics, School of Life and Environmental Science and the Charles Perkins Centre, The University of Sydney Centre for Education and Research on Ageing, Concord Hospital, University of Sydney, New South Wales, Sydney, Australia. The ARC Centre of Excellence in Population Ageing Research, University of Sydney, New South Wales, Sydney, Australia.

12:30/1:30

LUNCH BREAK

PLENARY SESSION

1:30/2:30

Symposium 10

Metabolomic Signatures of Frailty

Moderator: Jeremy D. Walston, MD Johns Hopkins University School of Medicine

- **Chronic Inflammation-related Metabolomic Profile Discovery in the interleukin 10tm1Cgn mouse**

Reyhan Westbrook Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD

- **Evidence of Kynurenine Pathway Involvement in Age-associated Muscle Weakness**

Tae Chung, MD Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore

- **Altered frailty metabolome links chronic inflammation to functional decline**

P. Abadir Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, USA

2:30/3:45

ORAL COMMUNICATIONS

2:30

OC49: Human multilineage-inducible cells mediate the repair and rejuvenation of tissues derived from all embryonic layers in immunocompetent rodents through multiple mechanisms

Paul C. Schiller, PhD, Prime Cell Biomedical Inc Miami Beach FL USA

2:45

OC50: Innovating Animal Models of Frailty: Frailty Index and Mortality in Pet Dogs with Exceptional Longevity

David J. Waters, DVM, PhD 1,2, Emily Chiang, PhD2, Cheri Suckow RN2, Aimee Maras, DVM2 1 Center on Aging and the Life Course, Purdue University, West Lafayette, IN, USA 2 Center for Exceptional Longevity Studies, Gerald P. Murphy Cancer Foundation, West Lafayette, IN, USA

3:00

OC51: A double-blind placebo controlled trial into the effects of testosterone provision upon body composition, glycaemic control and intra-muscular signaling pathways during resistance exercise training in older men

Nima Gharahdaghi¹, Supreeth S Rudrappa¹, Bethan E Phillips¹, Iskandar Idris¹, Matthew S Brook¹, Daniel J Wilkinson¹, Nathaniel J Szewczyk¹, Kenneth Smith¹, Philip J Atherton¹ 1MRC-ARUK Centre of Excellence and NIHR BRC, School of Medicine, University of Nottingham, UK

3:15

OC52: Disruption of IL-6 in a frail mouse model delays physical function decline in older animals

Lina Ma, Huanle Yang, Jackie Langdon, Reyhan Westbrook, Ruth Marx-Rattner, Jeremy Walston, Peter Abadir Division of Geriatric Medicine and Gerontology, Johns Hopkins University, Baltimore, USA

3:30

OC53: The Role of Diminishing Energy Reserves in Increasing Fatigability in Mid-to-Late Life

Jennifer A. Schrack, PhD, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Amal A. Wanigatunga, PhD, MPH, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Pablo Martinez-Amezcuca, MD, MHS, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Vadim Zippunikov, PhD, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health Stephanie A. Studenski, MD, MPH, National Institute on Aging Eleanor M. Simonsick, PhD, National Institute on Aging

BIOLOGY OF FRAILTY AND AGING

P1 • Melanin, the Unsuspected Bioenergetic Molecule and the Biology of Frailty and Aging

Arturo Solís Herrera, MD, PhD. Human Photosynthesis (TM) Research Center, M del Carmen Arias Esparza, MD MSc. Human Photosynthesis (TM) Research Center, Ruth Isabel Solís Arias, MD. Human Photosynthesis (TM) Research Center. Aguascalientes, (México)

P2 • Impairment in Neural Activation is a Key Contributor to Clinically Meaningful Muscle Weakness (i.e., Dynapenia) in Elderly Women

Leatha A. Clark, DPT, MS1,2, Shinichi Amano, PhD1,6, David W. Russ, PT, PhD1,3, Tim D. Law, DO, MBA1,2,4, and Brian C. Clark, PhD1,4,5 (1) Ohio Musculoskeletal and Neurological Institute (OMNI) at Ohio University, Athens, OH, USA; (2) Department of Family Medicine at Ohio University, Athens, OH, USA; (3) School of Rehabilitation and Communication Sciences, Ohio University, Athens, OH, USA; (4) Department of Geriatric Medicine at Ohio University, Athens, OH, USA; (5) Department of Biomedical Sciences at Ohio University, Athens, OH, USA; (6) Department of Biomedical Engineering, University of Southern California, Los Angeles, CA (USA)

P3 • Physical activity and sex hormone-binding globulin in older adults: results of the ActiFE- study

Dietrich Rothenbacher, MD, MPH1, Dhayana Dallmeier D, MD, PhD2, Michael D Denking MD2, Bernhard O Boehm MD3, Wolfgang Koenig MD4,5, Jochen Klenk PhD1. (1)Institute of Epidemiology and Medical Biometry, Ulm University, Ulm, Germany (2) Agaplesion Bethesda Clinic Ulm, Geriatric Center Ulm/Alb-Donau, Ulm, Germany (3) Lee Kong Chian School of Medicine, Nanyang Technological University, 59 Nanyang Drive, Singapore and Imperial College London, UK (4) University of Ulm Medical Center, Department of Internal Medicine II-Cardiology, Ulm, Germany (5) Deutsches Herzzentrum München, Technische Universität München, DZHK (German Centre for Cardiovascular Research), partner site Munich Heart Alliance, Munich, (Germany)

P4 • Aging-associated changes in skeletal muscle morphology assessed by intramuscular adipose and connective tissue

Jaclyn Sesso¹, Yoko Kato¹, Jeremy Walston¹, Karen Bandeen-Roche¹, Joao AC Lima¹, Bharath Ambale Venkatesh²
¹Johns Hopkins University, Baltimore, MD, USA, ²Radiology, Johns Hopkins University, Baltimore, MD (USA)

P5 • Genome-wide association study of serum creatinine identifies several loci for muscle mass

Juha J Hulmi PhD1, Mikko Kuokkanen PhD2, Jarkko Järvinen BSc1, Katja Borodulin PhD2, Pekka Jousilahti MD, PhD2, Markus Perola MD, PhD2 (1) Biology of Physical Activity, Faculty of Sport and Health Sciences, University of Jyväskylä, Finland (2) National Institute for Health and Welfare, Helsinki, (Finland)

P6 • miRNAs and Hemoglobin in Elderly

Tmluri E1, Del Panta V1, Grillari J2,3, Hackl M2, Skaliccky S2, Bandinelli S1 (1) Laboratory of Clinical Epidemiology, InCHIANTI Study Group, LHCT Local Health Tuscany Center, Florence, Italy (2) TamiRNA GmbH, Vienna, Austria, (3) Christian Doppler Laboratory for the Biotechnology of Skin Aging, Vienna, (Austria)

P7 • Gait speed impairment associated with sleep disturbances in community older people in Peru

Leyva N, Paredes C, Vargas F, Tello I, Ortiz PJ, Peinado JE, Aliaga E, Casas P, Tapia H, Varela L. Gerontology Institute. Cayetano Heredia University. Lima, (Peru)

P8 • Candidate Biomarkers of Intrinsic Capacity in the Toledo Study of Healthy Aging: a longitudinal study

S Walter, PhD1,2, B Davies MD1, F Garcia MD PhD2, L Rodriguez-Mañas MD PhD1,4 on behalf of the FRAILOMIC Consortium (1) Fundación para la Investigación Biomédica Getafe University Hospital, Madrid, Spain (2) Dept. of Epidemiology and Biostatistics, University of California San Francisco, United States (3) Geriatrics Department, Virgen del Valle Hospital, Toledo, Spain (4) Geriatrics Department, Getafe University Hospital, Madrid, (Spain)

P9 • Inflammatory biomarkers in socially active older people: description and association with Sarcopenia and its diagnostic criteria

Karen Mello de Mattos Margutti MD1,2, Natielen Jacques Schuch MD, PhD2,3, Adriane Rosa Costodio BS4, Thiago Duarte MD5, Marta Maria Medeiros Frescura Duarte MD, PhD5,6, Maria Gabriela Valle Gottlieb MSc, PhD1, Carla Helena Augustin Schwanke MD, PhD1 (1) Graduate Program in Biomedical Gerontology, Institute of Geriatrics and Gerontology (IGG), Pontifical Catholic University (PUCRS), Porto Alegre, RS, Brazil. (2) Nutrition Course, Health Sciences, Franciscan University Center, Santa Maria, RS, Brazil. (3) Master's Program in Health and Life Sciences, Franciscan University Center, Santa Maria, RS, Brazil. (4) Graduate Program in Gerontology, Federal University of Santa Maria (UFSM), Santa Maria, RS, Brazil. (5) Graduate Program in Pharmacology, Federal University of Santa Maria (UFSM), Santa Maria, RS, Brazil. (6) Center for Health Sciences, Lutheran University of Brazil, Santa Maria, RS, (Brazil)

P10 • Comparison of the occurrence of falls and anthropometric measurements between sarcopenic and non-sarcopenic elderly women

Patrícia Parreira Batista, MSc; Luana Almeida de Sá Cavaleiro, MSc; Jéssica Rodrigues Almeida, PT; Isabella Letícia de Pádua Cruz e Souza; Lygia Paccini Lustosa, PhD Postgraduate program in Rehabilitation Sciences, Physiotherapy Department, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, (Brazil)

PHYSICAL FRAILTY AND AGE-RELATED BODY COMPOSITION MODIFICATIONS

P11 •The discriminative ability of SARQOL® according to the definition of sarcopenia : the OFELY Study

Elisabeth Sornay-Rendu C Beaudart, O Bruyère, RD Chapurlat, INSERM UMR 1033 and Université de Lyon, (France)

P12 •The correlation between fast gait speed and echo intensity in older adults is influenced by Subcutaneous tissue thickness

Matt S. Stuck, PhD1, Morgan Whitson, MS2, Adam M. Burton, BS1, Nicole T. Dawson, PT, PhD, GCS3, Brennan J. Thompson, PhD4, Eric J. Sobolewski, PhD5 1Applied Physiology Laboratory, Doctor of Physical Therapy Program, University of Central Florida, Orlando, FL, USA 2Sherman Clinical Research, Sherman, TX, USA 3Innovative Mobility Initiative Lab, Doctor of Physical Therapy Program, University of Central Florida, Orlando, FL, USA 4Neuromuscular Research Laboratory, Kinesiology and Health Science, Utah State University, Logan, UT, USA 5Molnar Human Performance Laboratory, Health Science, Furman University, Greenville, SC, (USA)

P13 • Evaluation of calf circumference and medial gastrocnemius thickness in prefrail Community-dwelling older women

Hilana Rickli Fiuza Martins, PT, MS1; Simone Biesek S MS2; Jarbas Melo Filho,PT, MS1; Audrin Said Wojciechowski PT3, André Bonfim Ferreira UGS4; Gabriela de Almeida Tormes UGS4; Estela Iraci Rabito PhD5, Vitor Last Pintarelli PhD6; Anna Raquel Silveira Gomes,PT,MS, PhD7. 1 PhD Student in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. 2 PhD Student in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. Nutrition undergraduation Course, Centro Universitário Autônomo do Brasil (UNIBRASIL). Curitiba. Paraná. Brazil. 3Master Student in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. 4 Physiotherapy undergraduation. Federal University of Paraná. Curitiba. Paraná. Brazil. 5Master in Food and Nutrition Program, Department of Nutrition, Federal University of Paraná, Curitiba. Paraná. Brazil 6 Department of Internal Medicine, Federal University of Paraná. Curitiba. Paraná. Brazil. 7Master and PhD Programs in Physical Education. Prevention and Rehabilitation in Physiotherapy Department, Federal University of Paraná. Curitiba. Paraná. (Brazil)

P14 • Comparison of different methods to assess muscle mass in prefrail community-dwelling older Women

Luiza Bendhack UGS2; Jarbas Melo Filho,PT,MS 1; Simone Biesek MS2; Audrin Said Wojciechowski PT3; Isabela Riceto UGS4, Estela Iraci Rabito PhD5; Adriana Pereira Miró MD6; Victoria Zeghibi Cochenski Borba PhD7; Anna Raquel Silveira Gomes, PhD8. (1)PhD Student in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. (2) PhD Student in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. Course of Nutrition, Centro Universitário Autônomo do Brasil (UNIBRASIL). Curitiba. Paraná. Brazil. (3) Master Student in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. (4) Physiotherapy undergraduation. Federal University of Paraná. Curitiba. Paraná. Brazil. (5) Master in Food and Nutrition Graduate Program at Department of Nutrition, Federal University of Paraná, Curitiba. Paraná. Brazil. (6) Geriatric Physician in Hospital de Clínicas of the University of Paraná. Curitiba. Paraná. Brazil. (7)Master and PhD Programs in Internal Medicine, Federal University of Paraná. Curitiba. Paraná. Brazil. (8) Master and PhD Programs in Physical Education. Prevention and Rehabilitation in Physiotherapy Department, Federal University of Paraná. Curitiba. Paraná. (Brazil)

P15 • Factors associated with time to occurrence of functional disability or death in non-obese elderly people - EPIDOSO Project

Naveira Miguel, MD (1) Ramos Luiz Roberto, MD PhD (2) AndreoniSolange, MD PhD (3) Department of Preventive Medicine of the Federal University of São Paulo (Brazil)

P16 • Body composition and physical performance in middle aged and elderly women: a Cross-sectional community-based study in northeast brazil

Mariana Carmem Apolinário Vieira, PT, MSc-UFRN; Rafaela Silva dos Santos, PT, BSc-UFRN; Rafaela Andrade do Nascimento, PT, MSc-UFRN; Mayle Andrade Moreira, PT, PHD-UFRN, ; Maria Socorro Medeiros de Moraes, MD, MSc-UFRN; Saionara Maria Aires da Câmara, PT, PHD-UFRN; Álvaro Campos Cavalcanti Maciel, PT, PHD-UFRN Universidade federal do rio grande do norte (ufrn) (Brazil)

P17 • Inflammatory frailty index and mortality after kidney transplantation

Christine E. Haugen MD (1), Hao Ying MHS (1), Alden Gross (2), Dorry L. Segev MD PhD (1,2), Mara McAdams-DeMarco PhD (1, 2), (1) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD. (2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD. (USA)

P18 • Association between adiposity and fatigability in middle-aged and older adults

Pablo Martínez-Amezcua, MD, MHS (1,2); Eleanor M. Simonsick, PhD (3), Amal A. Wanigatunga, PhD, MPH (1,2), Jennifer A. Schrack, PhD (1,2) 1) Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA 2) Center on Aging and Health, Johns Hopkins University, Baltimore, Maryland, USA 3) Intramural Research Program, National Institute on Aging, Baltimore, Maryland, (USA)

P19 • Prevalence of sarcopenia in elderly Japanese chronic hepatitis C patients: The relevance between handgrip strength and exercise habits.

Kenichi Kitada MD1, Makoto Kuboki MD, PHD1,2,3, Osamu Arai MD3, Norikuni Shiabata MD3, Kenji Ohmoto MD,PHD3, Tamae Nishi RD, PhD2, Akinobu Kato MD,PHD1 (1) Department of Gastroenterology, Morioka Municipal Hospital, Morioka, Iwate, Japan (2) Faculty of Nutritional Sciences, Morioka University, Iwate, Japan (3) Department of Gastroenterology, Hepatology and Nutrition, Kurashiki Medical Center, Kurashiki, Okayama, (Japan)

P20 • Dysphagia and Malnutrition in elderly hospitalized in Cardiology Hospital

Tatiana Magalhães de Almeida Master Degree 1, Raquel Gama Fernandes Master Degree 1, Marcela Dinalli Barbosa, Patrícia Amante de Oliveira Soares PhD 2, Isabela Pimentel Mota 2, Amanda Guerra de Moraes Rego Sousa PhD 3, Carlos Daniel Magnoni Master Degree 2 1-Speech Therapy Department, Dante Pazzanese of Cardiology, São Paulo, SP, Brazil 2-Nutrition Department, Dante Pazzanese of Cardiology, São Paulo, SP, Brazil 3- General Director, Dante Pazzanese of Cardiology, São Paulo, SP, (Brazil)

P21 • Can Basal Metabolic Rate be used for evaluation of sarcopenia and frailty in older adults?

Pinar Soysal, MD1, Esra Ates Bulut, MD2, Suleyman Emre Kocyigit MD2, Ahmet Turan Isik MD2 (1) Kayseri Education and Research Hospital, Geriatric Center, Kayseri, Turkey (2) Department of Geriatric Medicine, Dokuz Eylul University, Faculty of Medicine, Izmir, (Turkey)*

P22 • Frail But Active: Coping with Physiological Challenges of Later Life

Nimfa B. Ogena, PhD University of the Philippines Population Institute and John Andrew G. Evangelista Department of Sociology, University of the Philippines-Diliman (Philippines)

P23 • Anthropometric measurements, number of comorbidities and medications in use in Brazilian elderly women at risk of sarcopenia

Patricia Parreira Batista, MSc; Patricia Sena Pinheiro, MSc; Kellen C. Chaves de Almeida Antunes de Moraes, PT; Taciane Mendes Costa Silva; Lygia Paccini Lustosa, PhD Postgraduate program in Rehabilitation Sciences, Physiotherapy Department, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, (Brazil)

P24 • Anthropometric Assessment and Body Composition of Female Students in a Nigerian University

Ignatius Akhakhia Onimawo, PhD Ayemhenre Esekheigbe, PhD Maureen Okorie, BSc Department of Biochemistry, Ambrose Alli University, Ekpoma, (Nigeria)

COGNITIVE FRAILTY

P25 • Prevalence and Related Factors of Cognitive Frailty in China

Lina Ma, Li Zhang¹, Yaxin Zhang¹, Yun Li¹, Zhe Tang¹, Piu Chan^{1,2} 1 Department of Geriatrics, Beijing Geriatric Healthcare Center, Beijing Institute of Geriatrics, Xuanwu Hospital of Capital Medical University, Key Laboratory on Neurodegenerative Disease of Ministry of Education, Beijing Institute for Brain Disorders, China National Clinical Research Center for Geriatric Disorders, Beijing 100053, China 2 Department of Neurology and Neurobiology, Xuanwu Hospital of Capital Medical University, Beijing 100053, (China)

P26 • A pilot observation of the relationship between frail phenotype and quantitative electroencephalographic findings among end-stage renal disease patients

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P27 • A quasi-experimental pilot study to examine the effectiveness of the reminiscence-based program versus cognitive stimulation to prevent progression of cognitive frailty in older adults from day centers

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P29 • Association between frailty and cognitive impairment: cross-sectional data from Toulouse frailty day hospital

Bertrand Fougère^{1,2}, Matthieu Daumas¹, Matthieu Lilamand^{2,3}, Sandrine Sourdet^{1,2}, Julien Delrieu^{1,2}, Bruno Vellas^{1,2}, Gabor Abellan van Kan^{1,2} 1 Gérontopôle, Centre Hospitalier Universitaire de Toulouse, Toulouse, France. 2 Inserm UMR1027, Université de Toulouse III Paul Sabatier, Toulouse, France. 3 APHP- Department of Geriatrics, Bichat University Hospital, Paris, (France)

P30 • Parenting grandchildren is more beneficial to cognitive function than physical function in urban community dwelling

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P31 • The Relationship Between Fatigue and Executive Function in Aging Adults

Nikhil Banerjee, MS; Katalina McInerney, PhD; Sarah Getz, PhD; Sun Ni Li, MS; Joyce Gomes-Osman, PT, PhD; Annelly Bure-Reyes, PhD; Marina Sarno, PsyD; Stacy Merritt, MA; Wendy Gaztanaga; Chuanhui Dong, PhD; Xiaoyan Sun, MD; Tatjana Rundek, MD, PhD; & Bonnie Levin, PhD. All authors from the University of Miami, Department of Neurology, Miami, FL (USA)

P32 • The influence of frailty and cognitive decline on gait characteristics and skeletal muscle clarifies the cognitive frailty concept in older people

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P33 • Differences in dietary intake and physical function in stroke survivors with self-report cognitive impairment

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FRAILTY IN CLINICAL PRACTICE AND PUBLIC HEALTH

P34 • Patient and Stakeholder Involvement in Action: Including frail older people and clinicians in designing a study to evaluate a complex, primary care-based intervention.

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P35 • Oropharyngeal Dysphagia And Fragility: Can It Be Related?

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P36 • Effects of an intergenerational exchange program between nursing students and community healthy elderly

Hiroe Hayashi(1) Pingping Zhang(1) 1) Saitama Prefectural University (Japan)

P37 • Association of Frailty with Recovery from Disability among Community-Dwelling Older Adults: Results from Two Large U.S. Cohorts

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P38 • Longitudinal Relationship between Knee Pain Status and Incident Frailty: Data from the Osteoarthritis Initiative

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P39 • Self-Rated Health and Frailty: cross-sectional and longitudinal relationships in older adults from the Three-City Bordeaux Study

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P40 • A Community-Engaged Approach to Design, Develop, and Pilot an Exercise Mobile Application for Medicaid Home and Community-Based Services Older Adult Clients with Frailty and Home Care Aides

Margaret Danilovich, PT, DPT, PhD - Northwestern University Laura Diaz, BA - Northwestern University Gustavo Saberbein, M.S. - Help at Home, Inc. William Healey, PT, EdD - Northwestern University Gail Huber, PT, PhD - Northwestern University Daniel Corcos, PhD - Northwestern University (USA)

P41 • Rapid Multi-Domain Geriatric Screen and Fitness Assessment Identifies (Pre)Frailty and Its Potentially Modifiable Risk Factors in Community-dwelling Older Adults

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P42 • Hand Grip Strength as a measure of Physical Frailty of Patients in a Subacute Geriatric Inpatient Setting in Singapore

Christine Yuanxin Chen, department of geriatric medicine, changi general hospital, singapore Thant Zin Tun, department of geriatric medicine, changi general hospital, Singapore Vivian Cantiller Barrera, department of geriatric medicine, changi general hospital, (Singapore)

P43 • Disease activity and functional capacity influence frailty in rheumatoid arthritis patients

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P44 • Engaging Clinicians and Patients to Assess and Improve Frailty Measurement in Adults with End Stage Renal Disease

Sarah Van Pilsom Rasmussen BA (1), Jonathan Konel BA (1), Fatima Warsame BS (2), Hao Ying ScM (1), Brian Buta MHS (3), Christine Haugen MD (1), Elizabeth King MD PhD (1), Sandra DiBrito MD (1), Ravi Varadhan PhD (4), Leocadio Rodríguez-Mañas MD PhD (5), Jeremy D. Walston MD (2), Dorry L. Segev MD PhD (1,5), Mara A. McAdams-DeMarco PhD (1,5) (1) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD. (2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD. (3) Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD. (4) Department of Oncology, Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD. (5) Hospital Universitario de Getafe, Madrid, Spain.

P45 • Frailty and risk of adverse drug reactions among hospitalized older adults.

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P46 • Development of a Sustainable Program for Frailty Identification and Intervention through Nutrition and Exercise (FINE) in Eastern Singapore

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P47 • Prevalence of Frailty and Prescription of Anticoagulation in Older Adults with Atrial Fibrillation

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P48 • Rapid Multi-Domain Geriatric Screen and Fitness Assessment Identifies (Pre)Frailty and Its Potentially Modifiable Risk Factors in Community-dwelling Older Adults

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P49 • Activities professionals play critical roles in long-term care

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P50 • Sarcopenia, but not Frailty, Predicts Falls in Well Older Adults with Pre-Diabetes and Diabetes

Delwyn Lim Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore Tay Laura, Department of General Medicine (Geriatric Medicine), Sengkang General Hospital, Singapore Noor Hafizah, Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore Yeo Audrey, Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore Yew Suzanne, Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore Ding Yew Yoong, Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore Lim Wee Shiong, Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore

P51 • The Gerontopole Frailty Database (FDB): a tool to highlight the specific needs of the frail elderly people

Christine Lafont Justine de Kerimel, Neda Tavassoli, Maria Soto, Sandrine Sourdet, Fati Nourhashemi, Bruno Vellas. Toulouse Gerontopole, Regional Team on Aging and Prevention of Dependency, Toulouse University Hospital (France)

P52 • Older persons in assisted living facilities: a target population for preventive interventions to delay dependency

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P53 • Evaluation of the responsiveness of the SarQoL® questionnaire: results from the SarcoPhAge study

Anton Geerincq, MPH1, Olivier Bruyère, PhD1, Médée Locquet, MPH1, Jean-Yves Reginster, MD, PhD1, Charlotte Beaudart, PhD1 (1) Research Unit of Public Health, Epidemiology and Health Economics, University of Liège, Liège, (Belgium)

P54 • The Impact of Frailty on Short-Term Outcomes after Elective Hip and Knee Replacement Surgery in Older Adults: A Systematic Review

Abigail M. Schmucker, BA (1), Nathaniel Hupert, MD, MPH (2), Lisa A. Mandl, MD, MPH (2)(3) (1) - Sidney Kimmel Medical College at Thomas Jefferson University, Philadelphia, PA (2) - Weill Cornell Medicine, New York, NY (3) - Hospital for Special Surgery, New York, NY (USA)

P55 • Constructs of a frail identity within a NHS Day Hospital setting

Chantel Cox RGN MRes 1,2, Caroline Ellis-Hill PhD 2, Michele Board RGN PhD 2, Michael Vassallo MD, PhD, Prof 1,2 (1) The Royal Bournemouth and Christchurch Hospital NHS Foundation Trust, Bournemouth, England. (2) Bournemouth University, Bournemouth, (England)

P56 • Is Frailty Associated with Adverse Events After Total Joint Arthroplasty?

Lisa A. Mandl MD, MPH [1][2], Abigail M. Schmucker, BA [1][3], Nathaniel Hupert, MD, MPH [2], Mayu Sasaki, MPH [1], Justin T. Do, BSE [1], Charles N. Cornell, MD [1][2], Michael B. Cross, MD [1][2], Alejandro Gonzalez Della Valle, MD [1][2], Mark P. Figgie, MD [1][2], Seth A. Jerabek, MD [1][2], Jackie Szymonifka, MA [1], Steven K. Magid, MD [1][2] [1] Hospital for Special Surgery, New York, NY; [2] Weill Cornell Medicine, New York, NY; [3] Sidney Kimmel Medical College, Philadelphia PA (USA)

P57 • Frailty as a Risk of Falls among Community Dwelling Brazilian Older Adults

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P58 • Falls and Frailty: Which of the frailty criteria has the highest relation with falls among older adults?

Natália Boneti Moreira, MSc1,2; Andre Luiz Felix Rodacki, PhD2; Gleber Pereira, PhD2; Jarbas Melo Filho MSc2; Anna Raquel Silveira Gomes, PhD3; Paulo Cesar Barauce Bento, PhD2 1Physiotherapy Department. Dom Bosco College, Curitiba, Paraná, Brazil. 2Physical Education Department, Federal University of Paraná, Curitiba, Paraná, Brazil. 3Prevention and Rehabilitation in Physiotherapy Department, Federal University of Paraná, Curitiba, Paraná, (Brazil)

P59 • The Postal Version of the FRAIL Scale: A Comparison with the INTER-FRAIL Postal Questionnaire

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P60 • Coexisting Frailty and Depression in Older Veterans: Outpatient Care, Emergency Room and Hospital Utilization

Sruthi Nelluri1, Mercedes Rodriguez2,3, Zubair Rahaman1, Kimberly Cabrera1, Shivani Priyadarshni1, Michael J. Mintzer1,4, Stuti Dang1,3, Willy Marcos Valencia1,3, and Jorge G. Ruiz1,3 1Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE) 2Miami VAHS Mental Health Service 3University of Miami Miller School of Medicine 4FIU Herbert Wertheim College of Medicine (USA)

P61 • The interaction of frailty and sarcopenia in advanced epithelial ovarian cancer patients undergoing primary debulking surgery

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P62 • The Care Assessment Need (CAN) Score as a Screening for Frailty

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P63 • Association Between PTSD and the Frailty Syndrome in Older Veterans

Sruthi Nelluri1, Mercedes Rodriguez2,3, Zubair Rahaman1, Kimberly Cabrera1, Shivani Priyadarshni1, Michael J. Mintzer1,4, Stuti Dang1,3, Willy Marcos Valencia1,3, and Jorge G. Ruiz1,3 1Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE) 2Miami VAHS Mental Health Service 3University of Miami Miller School of Medicine 4FIU Herbert Wertheim College of Medicine (USA)

P64 • Relation between frailty criteria and quality of life in pre-frail community-dwelling olderWomen

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P65 • Association of Diabetes Mellitus with frailty phenotype and sarcopenia in young, middle aged and older adults

Miriam Zylberglaiz Lisigurski, MD Carmen Cartwright, MD Sharmila Ravindranathan, MD Sameer Shaharyar, MD Osman Perez, MD Aimee Almanzar, MD Jasdip Grewal, MD Saied Alsbagh, MD Affiliation: Internal Medicine Residency Training Program. Aventura Hospital and Medical Center. (USA)

P66 • Characteristics of the frailty phenotype on young, middle-aged, and older adults. A single center experience

Miriam Zylberglaiz Lisigurski, Sameer Shaharyar (1) Carmen Cartwright (1) Omar Jamal (1) Chi Chan Lee (1) Sharmila Ravindranathan (1) Matteo Cesari (2) (1) Internal Medicine Residency Training Program. Aventura Hospital and Medical Center. USA (2) Centre Hospitalier Universitaire de Toulouse. (France)

P67 • Diagnostic criteria and prevalence of sarcopenia in middle aged and elderly women from Northeast Brazil: a cross-sectional community based study

Rafaella Silva dos Santos, PT, BSc-UFRN; Mariana Carmem Apolinário Vieira, PT, MSc-UFRN; Rafaela Andrade do Nascimento, PT, MSc-UFRN; Mayle Andrade Moreira, PT, PHD-UFRN, ; Saionara Maria Aires da Câmara, PT, PHD-UFRN; Alvaro Campos Cavalcanti Maciel, PT, PHD-UFRN Universidade federal do rio grande do norte (ufrn) (Brazil)

P68 • Side by Side Comparison of Rockwood Index and Risk Assessment Index as Predictors of Surgical Complications at a Texas Safety Net Hospital Serving a Large Hispanic Population

Alex F. Bokoy, UT Health Desiree S. Wilson, UT Health Sara E. Espinoza, UT Health Paula K. Shireman, UT Health (USA)

P69 • Clinical and biometrical factors associated to frailty in elderly from hospital universitario de Santander in years 2016 and 2017

Mario Corzo MD1, Claudia Figueroa MD, MSc1, Miguel Cadena MD1, Andrés Ochoa1, Fabio Suárez1, Paula Casanova MD1, Diego Moreno MD1. (1) Internal Medicine Department. Universidad Industrial de Santander. Hospital Universitario de Santander, Bucaramanga, Santander, (Colombia)

P70 • A Comparison of Frailty Criteria in Hispanic/Latino and Non-Hispanic/Latino Older Adults in South Florida

Katalina F. McInerney, PhD*; Joyce Gomes-Osman, PT, PhD*; Nikhil Banerjee, MS; Sarah Getz, PhD; Sun Ni Li, MS; Annelly Bure-Reyes, PhD, Marina Sarno, PsyD; Stacy Merritt, MA; Wendy Gaztanaga, BS; Chuanhui Dong, PhD; Xiaoyan Sun, MD; Tatjana Rundek, MD, PhD; Bonnie Levin, PhD. * denotes equal contribution Affiliations: University of Miami; Evelyn F. McKnight Brain Research Institute (USA)

P71 • Low Emotional Reserve as a Risk Factor for the Frailty Syndrome Independent of Gender

Sarah J. Getz, PhD; Katalina, F. McInerney, PhD; Nikhil Banerjee, MS; Joyce Gomes-Osman, PT, PhD; Sun Ni Li, MS; Stacy Merritt, MA, CCRP; Wendy Gaztanaga, BS; Annelly Bure-Reyes, PhD, Marina Sarno, PsyD; Chuanhui Dong, PhD; Xiaoyan Sun, MD; Tatjana Rundek, MD, PhD; Bonnie Levin, PhD (USA)

P72 • Frailty and surgery post complications in elderly patients with severe cardiac valve pathology

José Losa-Reyna, 1,2,3, Elisa García-Tercero1, Susana Martín-Braojos1, Julián Alcázar2,3, Pedro Lima4, Mª Pilar Pareja4, Alfonso Cañas4, Ignacio Ara2,3, Francisco José García-García1,2, Ana Alfaro-Acha1,2 Frailty Unit. Dpt. of Geriatric. Hospital Virgen del Valle, Toledo. (Spain)

P73 • Frailty is a predictor of cognitive impairment: evidence from toledo study for healthy aging

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P74 • Effects of two different physical exercise-based strategies to treat frailty

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P75 • The Pictorial Fit-Frail Scale

Olga Theou, PhD1, Emma J Squires, BA1, Lisa McGarrigle, PhD1, Lindsay Wallace, MSc1, Judah Goldstein, PhD2, Melissa Andrew, MD1, PhD Kenneth Rockwood, MD1 (1) Division of Geriatric Medicine, Department of Medicine, Dalhousie University and Nova Scotia Health Authority, Halifax, Nova Scotia, Canada (2) Emergency Medical Services, Department of Emergency Medicine, Dalhousie University and Nova Scotia Health Authority, Halifax, Nova Scotia, (Canada)

P76 • Psoas Lumbar Vertebral Index (PLVI) as a Preoperative Central Sarcopenia Predicts the Early Clinical Outcomes in Elderly Cardiac Surgery Patients

Hiroshi Furukawa MD, PhD, Takeshi Honda, MD, Takahiko Yamasawa, MD, PhD, Kazuo Tanemoto, MD, PhD Department of Cardiovascular Surgery, Kawasaki Medical School, Kurashiki, (Japan)

P77 • Frailty and Adverse Quality of Life among Persons Aging with HIV in Barbados

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P78 • Frailty Status and Advance Directives

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P79 • Grip strength along with calf circumference screen out sarcopenia well in community dwelling old people

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P80 • Predictive Validity of the Brazilian version of the Rapid Geriatric Assessment

Fabiana de Souza Orlandi; Rafaela Brochine Lanzotti; Juliana Gomes Duarte; Silvia Matumoto; Henrique Novais Mansur; Marcia Regina Cominetti; Sofia Crsitina Iost Pavarini; Marisa Silvana Zazzetta Federal University of São Carlos (Brazil)

P81 • Evaluation of frailty in elderly people in the community of são carlos, são paulo, brazil

Fabiana de Souza Orlandi; (1); Rafaela Brochine Lanzotti (1); Juliana Gomes Duarte (1); Marisa Silvana Zazzetta (1); Silvia Matumoto (2) 1- Department of Gerontology, Federal University of São Carlos, Brazil. 2- Nursing School of Ribeirão Preto - University of São Paulo, (Brazil)

FUNCTIONAL ASSESSMENT

P82 • Muscle mass adjusted for body mass index reveals better efficacy in relation of sarcopenia with functional measures (Muscle mass adjustment methodology influences the association of low muscle mass with functionality)

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P83 • Cut-off points for weight and body mass index adjusted bioimpedance analysis measurements of muscle mass

Gulistan Bahat (1), Asli Tufan(1), Cihan Kilic(1), Sevilyay Muratla(1), Timur Seluk Akpinar(2), Murat Kose(2), Mehmet Akif Karan(1) 1.Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division 2.Istanbul University Istanbul Medical Faculty Internal Medicine Department (Turkey)

P84 • Age-related muscle atrophy is associated with declines in muscle quality in older men and in lean body mass in older women

Hiroshi Akima PhD1, Akito Yoshiko MEd1, Aya Tomita MA1, Ryosuke AndoPhD1,2,3, Madoka Ogawa MS1,3, Hisashi MaedaMS1, Noriko I. Tanaka PhD1 (1) Nagoya University, Aichi, Japan (2) Japan Institute of Sports Sciences (3) Japan Society for the Promotion of Science (Japan)

P85 • SARC-F: Defining a validated cutoff for pre-sarcopenia for risk assessment among community dwelling older persons

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P86 • A new way to illustrate changes in musculoskeletal health using inertial sensors: the T-score

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P87 • Screening tools for Sarcopenia: A Scoping Review

Mohd Nawi SN (1), Khaw KSF (1,2,3), Visvanathan R (1,2,3), Yu SCY (1,2,3) 1. Aged and Extended Care Services, The Queen Elizabeth Hospital, Central Adelaide Local Health Network, South Australia, Australia 2. Adelaide Geriatrics Training & Research with Aged Care Centre, Faculty of Health Science, Department of Medicine, University of Adelaide, Australia 3. National Health and Medical Council (NHMRC) Centre of Research Excellence: Transdisciplinary Frailty Research To Achieve Healthy Ageing. Adelaide, South Australia, (Australia)

P88 • Predictive validity of a novel comprehensive assessment tool for sarcopenia (sarcopenia scale): A relationship with the incidence of falls

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P89 • Simple physical activity index predicts prognosis in older adults

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P90 • Relationship cognition functions, physical capability and nutrition of the elderly

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P91 • Identifying Frailty Using the Electronic Medical Record within a Medicare Accountable Care Organization

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P92 • The Role of Diminishing Energy Reserves in Increasing Fatigability in Mid-to-Late Life

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P93 • Gender-related effects of a multicomponent exercise program on physical fitness of older adults

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P94 • Vitamin B12 Deficiency Might Be Related to Sarcopenia in Older Adults

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P95 • Physical performance correlation with frailty index in elderly patients

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P96 • Association of handgrip strength with multimorbidity in community dwelling Chilean older people

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P97 • Grip strength in adults with hip fracture compared to ambulatory population

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P98 • Functional Need and Frailty

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P99 • Peak flow is useful for sarcopenia screening in community-dwelling patients with stable chronic obstructive pulmonary disease

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P100 • Association between anthropometric measures and functional performance in Brazilian elderly women at risk of sarcopenia

Patrícia Parreira Batista, MS; Cláudia Venturini, MS; Camilo Cândido Santos, PT; Vitor Augusto Kersul; Lygia Paccini Lustosa, PhD Postgraduate program in Rehabilitation Sciences, Physiotherapy Department, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, (Brazil)

P101 • Body Composition and Physical Performance in Middle-Aged Men and Women

F Baptista, Vera Zymbal, Diana Luís, Filomena Camide Exercise and Health Laboratory, CIPER, Faculdade de Motricidade Humana, Universidade de Lisboa, (Portugal)

P102 • Chair-stand test is a better predictor of functional limitations than TUG in Older Chileans at the primary care setting

Cecilia Albala, Carlos Marquez, Lydia Lera, Barbara Angel, Rodrigo Saguez, Mario O Moya INTA, Universidad de Chile Patricia Arroyo Clinical Hospital Faculty of Medicine, Universidad de Chile (Chile)

P103 • Sarcopenia Assessment in a Middle-Aged Appalachian Population

Margaret Drazba, BS1, Allison Morris, BS1, and Melissa Ventura Marra, PhD, RDN1 (1) Division of Animal and Nutritional Sciences, West Virginia University, Morgantown, West Virginia

PRECLINICAL STUDIES

P104 • The Influence of Body Composition on Efficacy of Biological Treatment with TNF Inhibitors in Patients with Crohn's Disease

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P105 • ARA290, a small non-hematopoietic peptide derived from erythropoietin, attenuates the age-associated decline in the heart's structure and function, prolongs healthspan to attenuate frailty in advanced age

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P106 • Concordance for the measurement of skeletal muscle mass between bipolar and tetrapolar Impendatiometer

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CLINICAL TRIALS

P106 • Effects of Different Combined Exercise Training Protocols in Chronic Heart Failure Patients: a randomized controlled study

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P107 • Effects of 3 Months Multicomponent Exercise Program on Physical Function in Nursing Home Residents: A Randomized Controlled Trial

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P108 • Exercise Improves or Maintains the Cognitive Function and Physical Activity Level in Nursing Home Residents: A Randomized Controlled Trial

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P109 • Physical Frailty and Quality of Life - Baseline data a large European Multi-Centre Trial (DO-HEALTH)

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P110 • Daily Mobility profile in Age-Related Sarcopenia: Actimetry baseline data from SARA-OBS, a six-month observational multicentre clinical study in EU and US.

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P111 • Cross-transfer effects of resistance training with blood flow restriction

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NEW DRUG DEVELOPMENTS

P112 • Combined effects of BIO101 on anabolism and mitochondrial function in skeletal muscle cells

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P113 • BIO103 demonstrates sharp improvement of skeletal muscle function in an animal model of hindlimb immobilization

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P114 • SARA-INT, A double-blind, placebo controlled, randomized clinical trial to evaluate safety and efficacy of Sarconeos (BIO101)

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PHYSICAL EXERCISE

P115 • A novel non-pharmacological intervention to improve body composition in obese elderly: Citrulline with high-intensity interval training

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P116 • Effect of high-intensity interval training combined with citrulline supplementation on Functional capacity and muscle functions in dynapenic-obese older adults

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P117 • Skeletal muscle adaptation in response to high intensity interval training in older adults according to daily protein intake distribution

Marcangeli V^{1,2,3}. El Hajj-Boutros G^{1,2,3}, Carvalho LP^{1,2,3}, Dulac MD^{2,3}, Pion CH^{2,3}, Belanger M^{1,2,3}, Gouspillou G^{1,2,3}, Gaudreau P⁴, Chevalier S⁵, Morais JA⁵ and Aubertin-Leheudre M^{1,2,3}. (1) Department of Exercise Science, Université du Québec à Montréal, Montreal (Qc), Canada (2) Groupe de recherche en activité physique adapté (GRAPA), Université du Québec à Montréal, Montreal (Qc), Canada (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montreal (Qc), Canada (4) Centre de Recherche du Centre Hospitalier Universitaire de Montréal et Département de médecine, Université de Montréal, Montreal (Qc), Canada (5) The Research Institute of the McGill University Health Centre and Division of Geriatric Medicine, McGill University, Montreal (Qc), (Canada)

P118 • Program preferences and (dis)incentives of older people to participate in nutritional and physical exercise programs

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P119 • Effects of 12 months resistance and endurance training on muscle quantity, quality and physical functions in elderly requiring long-term care

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P120 • The effects of stair climbing on arterial stiffness, blood pressure and leg strength in postmenopausal women with stage-1 hypertension

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P121 • Feasibility and potential efficacy of high intensity walking in frail older adults

Margaret Danilovich PT, DPT, PhD - Northwestern University David E. Conroy, PhD - Penn State University T. George Hornby, PT, PhD - Indiana University (USA)

P122 • Associations between L-arginine pathway metabolites, skeletal muscle mass and function, and their responses to resistance exercise, in older adults.

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P123 • Physical activity levels and frailty in Portuguese community-dwelling older adults ? a cross-sectional study

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P124 • Physical Exercise Program for Sarcopenia of Old Elders

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P125 • Exercise maintenance and physical function in older adults 1 year after completion of a 12 week exercise training intervention: a mixed methods approach

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P126 • Physical activity unveils the relationship between mitochondrial energetics, muscle quality and physical function in older adults

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P127 • Effects of exercising on a vibratory platform on older adults? vastus lateralis activity and knee extension power: a randomized pilot study

Daniel Borges PT, MSc1,2, *Lidiane Correia* PT1, *Karimna Costa* PT, MSc1, *Rafael Cavalcanti* PT, MSc1, *Samara Alencar* PT, MSc1, *Edgar Ramos Vieira* PT, PhD2, *Jamilson Brasileiro* PT, PhD1 (1) Department of Physiotherapy, Federal University of Rio Grande do Norte, Laboratório de Análise de Performance Neuromuscular (LAPER/N), Campus Universitário, Lagoa Nova, Natal, RN, Brazil (2) Department of Physical Therapy, Nicole Wertheim College of Nursing and Health Sciences, Florida International University (FIU), Miami, FL, (USA)

P128 • Greater muscle loading during maximal eccentric-concentric exercise training does not produce greater muscle hypertrophy than maximal concentric exercise training in resistance trained volunteers

Tariq Taylor BBS, MSc1, *Joanne Mallinson*, PhD1, *Dimitru Constantin-Teodosiu*, PhD1, *Rudi Billeter-Clark*, PhD1, *Martino Franchi*, PhD1, *Marco Narici*, PhD1, *Sara Brown*, 1, *Dorothee Auer*, MD, DM, PhD1, *Paul Greenhaff*, PhD1 (1) University of Nottingham (UK)

P129 • Effects of a dietary restriction and exercise program on central adiposity in older women With obesity

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P130 • High resolution metabolomic profiling of aerobic exercise effects in chronic stroke survivors

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P131 • Program preferences and (dis)incentives of older people to participate in nutritional and physical exercise programs

Lenore Dedeigne, MSc1; *Louise Dewinter* MSc 1; *Aniko Lovik* MSc 2; *Sabine Verschueren* PhD3; *Jos Tournoy* MD, PhD1,4; *Evelien Gielen* MD, PhD1,4. (1) KU Leuven ? University of Leuven, Department of Chronic Diseases, Metabolism and Ageing, Leuven, Belgium; (2) KU Leuven ? University of Leuven, Department of L-BioStat, Leuven, Belgium; (3) KU Leuven University of Leuven, Department of Rehabilitation Sciences, Leuven, Belgium; (4) UZ Leuven, Department of Geriatric Medicine, Leuven, (Belgium)

P132 • In co-morbid older individuals, high-intensity interval training (HIIT) induced improvements in cardiorespiratory fitness are not associated with gains in muscle mass

James EM Blackwell MD 1,2, *Catherine L Boereboom* 1,2, *Philip JJ Herrod* 1,2, *Jon N Lund* MD 1,2, *John P Williams* MD, PhD 1,2, *Bethan E Phillips* PhD 1 (1) MRC-ARUK Centre for Musculoskeletal Ageing, University of Nottingham, UK (2) Division of Surgery and Anaesthetics, Royal Derby Hospital, UK

EPIDEMIOLOGY**P133 • Longitudinal associations between body composition and 25-hydroxyvitamin D in community-dwelling older adults**

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P134 • A prospective cohort study on the health, social and financial effects of care-giving among caregivers of elderly stroke patients in the first post-stroke year in a multi-ethnic Asian country

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P135 • Three-year adverse health consequences of sarcopenia in community-dwelling older adults: results from the SarcoPhAge cohort study

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P136 • Sarcopenia and dynapenic obesity increase mortality among brazilian older adults: a 15 year follow up of the SABE study

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P137 • Prevalence and risk factors of sarcopenia among elders living in long-term care institutions in Taiwan

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P138 • Frailty and Diabetes Among Mexican American Older Adults

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P139 • Determinants of handgrip strength in community-dwelling older women

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P140 • Patient's engagement in the identification of critical outcomes in sarcopenia

Charlotte Beaudart 1-2, *Olivier Bruyère*1-2, *Jean-Yves Reginster*1-2, *Jurgen Bauer*3, *Cyrus Cooper*4-5, *Alfonso Cruz Jentoft*6, *Francesco Landi*7, *Médéa Locquet*1-2, *Stefania Maggi*8, *René Rizzoli*9, *Yves Rolland*10, *Nieves Vaquero*6, *Mickaël Hilgsmann*11 1 Department of Public Health, Epidemiology and Health Economics, University of Liège, Liège, Belgium 2 WHO Collaborating Centre for Public Health Aspects of Musculo-Skeletal Health and Ageing 3 Center for Geriatric Medicine, University of Heidelberg, Germany 4 MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, England, UK. 5 NIHR Musculoskeletal Biomedical Research Unit, University of Oxford, Oxford, UK. 6 Servicio de Geriatria, Hospital Universitario Ramón y Cajal (IRYCIS), Madrid, Spain. 7 Department of Geriatrics, Neurosciences and Orthopedics, Catholic University of the Sacred Heart Rome, Milano, Italy. 8 National Research Council, Neuroscience Institute Aging Branch, Via Giustiniani, 2, 35128 Padua, Italy. 9 Service of Bone Diseases, Faculty of Medicine, Geneva University Hospitals, Geneva, Switzerland. 10 Gérontopôle of Toulouse, University of Toulouse III, CHU Purpan, Toulouse, France 11 Department of Health Services Research , CAPRI Care and Public Health Research Institute, Maastricht University , Maastricht , (The Netherlands)

P141 • Dynamic approach of the frailty status in nursing homes: the SENIOR Cohort

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P142 • Sensory impairment and dependency, a prospective study among French elderly women: results from the E3N cohort study

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P143 • Frailty increases the incidence of mortality in elderly patients with cardiovascular diseases

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P144 • Associations between domestic violence through life and frailty: cross-sectional analysis from imias study

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P145 • Seeking for explanations for frailty incidence: the international mobility in aging study Imias

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P146 • Longitudinal associations between abdominal obesity and mobility disability in older adults: 4-years follow up of the international mobility aging study

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P147 • Association between frailty and aspects of perceived oral health in brazilian elderly

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P148 • Genetic determinants of healthy ageing

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P149 • Pre-operative total fat mass, skeletal muscle density and overall mortality in early-stage colorectal cancer

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P150 • Validity of physical performance tests in screening sarcopenia in low-income middle-aged and older women from Northeast Brazil

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P151 • Association of Tooth Loss with Incident Functional Disability in an Elderly Japanese Population: A Propensity Score Matched Cohort Study

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P152 • Interaction of mobility limitation with cardiovascular and neuropsychiatric diseases in older people: impact on mortality

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P153 • Frailty transitions in older adults with HIV: A one-year prospective follow-up study

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P154 • Normative data for isometric strength of 8 different muscle groups and their usefulness as a predictor of loss of autonomy among physically active nursing home residents: the SENIOR cohort

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P155 • National Estimates of Frailty Prevalence among Kidney Transplant Recipients in the United States

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P156 • Impact of the muscular mass evaluation performed through dxa and calf circumference in the Frequency of sarcopenia in elderly women

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P157 • Identifying Sarcopenia Among Men Living in Long-term Care Communities

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P158 • Empirical criteria for the definition of low muscle mass and strength from the Canadian Longitudinal Study on Aging

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P159 • Lack of agreement among different criteria to identify sarcopenic individuals: comparison in the Canadian Longitudinal Study on Aging

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NUTRITION INTERVENTION

P160 • Improvements in physical function after concurrent exercise training in older adults are augmented by a high protein diet intervention targeting leucine-rich meals

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P161 • Vitamin D supplementation is associated with a reduction in self-reported falls among older adults - D-SAFE Feasibility Study

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P162 • Screening of sarcopenia in a cardiology hospital - distinguishing functional capability of muscular weakness and its consequences

Patrícia Amante de Oliveira MD, PhD1 - Aline Santos Monteiro, RD1; Cristiane Kovacs, MD1; Karina Gama dos Santos RD1; Isabela Cardoso Pimentel Mota, RD1; Tatiana Magalhães de Almeida MD1; Amanda Guerra de Moraes Rego Sousa, MD, PhD1; Daniel Magnoni, MD1. (1) Nutrition Department, Instituto Dante Pazzanese de Cardiologia, São Paulo, (Brazil)

P163 • The effects of vitamin D supplementation on skeletal muscle function and fatigue in sedentary and physically active mice

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NUTRITION AND AGING

P164 • Influence of quality of nutrition on health of the Elderly workers

Natalia Prokopenko Grand PhD, Institute of Gerontology of National Academy of Medical Sciences, Kiev, (Ukraine)

P165 • Effect of creatine supplementation dosing strategies on aging muscle performance

Darren G. Candow aculty of Kinesiology and Health Studies, University of Regina 2. Jennifer Chami, Faculty of Kinesiology and Health Studies, University of Regina (Canada)

P166 • Components of the Mediterranean Diet and Mortality among Older Women with Frailty

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P167 • Osteoporosis, Active Daily Living Skills, and Dietary Patterns of Congregate Meal Participants

Fatma G. Huffman Ph.D., R.D (1), Joan A. Vaccaro, Ph.D. (1), Gustavo G. Zarini, Ph.D., R.D. (1), and Edgar R. Vieira, Ph.D., P.T. (2) (1) Department of Dietetics and Nutrition, Florida International University, Miami, FL, USA (2) Department of Physical Therapy, Florida International University, Miami, FL, (USA)

P168 • A meta-analysis of the effect of dietary omega-3 fatty acid supplementation on walking speed and inflammatory markers in older healthy adults

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P169 • Association between dietary nutrient intake and sarcopenia: the sarcophage cohort study

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P170 • Social media - A possibility to improve the dissemination in promiss: a pilot study

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P171 • Dietary supplementation with curcumin and oleuropein modulates muscle quality during aging

Claire Boutry 1, Elise Cazaubon 1, Olivier Rizzo 2, Jacques Vuichoud 1, Andreas Rytz 1, Marie-Noëlle Horcajada 1, Jérôme Feige 2, Sonia Karaz 2, Denis Breuille 1. 1. Nestlé Research Center, Lausanne, Switzerland, 2. Nestlé Institute of Health Science, Lausanne, (Switzerland)

P172 • Risk factors associated with sarcopenic obesity in elderly residents in the north of the R.J.:FIBRA III study.

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P173 • Evaluation of nutritional risk through Mini-Nutrition Screening and the Payette Scale in a Geriatric Population

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P174 • Bioelectrical impedance analysis and risk of malnutrition in older adults of the community

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P175 • Muscle Mass Index, Grip Strength and Nutritional Status during Hospitalization of Acute Hip Fracture

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P176 • Evaluation of Swallowing in Patients with Heart Failure

Raquel Gama Fernandes (1); Tatiana Magalhães de Almeida (1); , Marcela Dinalli Gomes Barbosa (1); Patrícia Amante de Oliveira Soares (2) presenter; Carlos Daniel Magnoni (2); Elizabeth Silva Santos (3); Amanda Guerra de Moraes Rego Sousa (3) (1) Speech Therapy Department, Dante Pazzanese Institute (2) Nutrition Department, Dante Pazzanese Institute (3) Dante Pazzanese Institute (Brazil)

P177 • Prevalence of obesity, sarcopenia and osteoporosis in a group of older Mexican women

Maria Consuelo Velazquez-Alva, María Esther Irigoyen-Camacho, Iazarevich Irina and Marco Zepeda. Professors and researchers. Health care department, metropolitan autonomous University, Mexico city (Mexico)

P178 • Sarcopenic obesity and metabolic syndrome in elderly outpatients: is there an association?

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P179 • Risk of Dysphagia and Nutritional Status of post-stroke elders

Renata Borba de Amorim Oliveira MD, PhD1, Ludmila da Silva Pinheiro GSN2, Alessandra Arnaud de Queirós Mattoso S3, Elizabeth Teixeira Lins S4, Benizia Soares Pessanha S, Francilise Pivetta Roque 1. Adjunct Professor, Nutrition Program, UFRJ campus Macaé, RJ, BR 2. Graduate Student in Nutrition, Nutrition Program, UFRJ campus Macaé, RJ, BR 3. Specialist, Bachelor in Speech Therapy, Home Care Program, SEMUSA/PMM, RJ, BR 4. Specialist, Bachelor in Nutrition, Home Care Program, SEMUSA/PMM, RJ, BR 5. Specialist, Bachelor in Social Service, Home Care Program, SEMUSA/PMM, RJ, (Brazil)

ANIMAL MODELS

P180 • Skeletal muscle extracellular matrix (ECM) adaptation after chronic stretching exercise in aged female rats

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P181 • alpha-melanocyte stimulating hormone modulates the central acyl ghrelin-induced stimulation of feeding and colonic secretion

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OSTEOPOROSIS & FRAILITY

P182 • A Non-invasive Method to Analyze Lamin A Expression in Circulating Osteoprogenitor (COP) Cells as a Biomarker for Musculoskeletal Disease

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P183 • Osteoporosis, self-rated health, and activity of daily living skills of older adults attending congregate meal sites

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P184 • Mutual associations among frailty, sarcopenia and osteoporosis: Four-year observations between the second and third ROAD study surveys

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P185 • Walking steps correlated with bone mineral density at the femoral neck independently of muscle function in postmenopausal Japanese women

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BIOMARKERS AND IMAGING

P186 • Risk factors of Sarcopenia in Ukrainian postmenopausal women

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P187 • Influence of grip strength, physical activity, and dietary protein intake on muscle strength and cross-sectional area in middle aged-women

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P188 • Changes in Plasma Levels of Nitrotyrosine and Monocyte Chemoattractant Protein-1 Levels after Etanercept Therapy in Rheumatoid Arthritis

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P189 • Screening tool for sarcopenia in older people: A biospectroscopic approach

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P190 • A new CT based approach to determine muscle and adipose tissue of paraspinal muscle

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P191 • OMIC signatures in risk of frailty ? a meta-analysis of nested case-control studies from the FRAILOMIC Initiative

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P192 • Bioimpedance in Heart Failure: Systematic Review of Current Evidence

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P193 • BodyComp.ai : Toward automatic L3 computed tomography bodycomposition quantification in clinical practice?

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P194 • Semi-Automated Segmentation of Psoas Muscle Area in Older Adults Undergoing Aortic Valve Replacement

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OSTEOPOROSIS & SARCOPENIA

P195 • Relationships between muscle mass, strength and bone mineral density in young men

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P196 • Cognitive and Psychosocial Factors Associated with Reduced Muscle Mass, Strength, and Function in Residential Care Apartment Complex Residents

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P197 • Association between FRAX and sarcopenia in community-dwelling elderly in Japan

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P198 • The mortality determinants of sarcopenia, MMSE and comorbidities in hospitalized geriatric patients.

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P200 • Muscle mass and intramuscular adipose tissue as predictors of 4-year mortality risk.

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P201 • One mineral density, spinal micro-architecture (tbs data) and body composition in the older Ukrainian women with vertebral fragility fractures

Vladyslav Povorozyuk, Nataliia Dzerovych D.F. Chebotarev Institute of gerontology NAMS Ukraine, Kyiv, (Ukraine)

P202 • Potential Factors Involved in Delayed Osteoporotic Fracture Healing in the Presence of Sarcopenia: Interventional Study of the Efficacy of Low-Magnitude High-Frequency Vibration

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P203 • Gender-specific Risk Factors for Sarcopenia Progression in Community-Dwelling Older Adults

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P204 • Aging, Severe Sarcopenia with Metabolic Syndrome in Home Care

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P205 • A high score on the SARC-F screening questionnaire for sarcopenia is associated with lower quality of life in patients attending High Risk Foot Clinic.

Irina Churilov (St Vincent's Hospital Melbourne Australia) *Leonid Churilov* (Florey Institute of Neuroscience and Mental Health, Melbourne, Australia), *Michelle Proctor* (St Vincent's Hospital Melbourne Australia), *Anna Galligan* (St Vincent's Hospital Melbourne Australia), *David Murphy* (St Vincent's Hospital Melbourne Australia), *Mark Westcott* (St Vincent's Hospital Melbourne Australia), *Richard J MacIsaac* (St Vincent's Hospital Melbourne Australia), *Elif I Ekinci* The University of Melbourne, (Australia)

P206 • Altered expression of H19/miR-675 and regulation of SMAD1/5 expression in skeletal muscle is associated with low muscle mass in community-dwelling older adults: findings from the Hertfordshire Sarcopenia Study (HSS)

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P207 • Body mass index recommendations and sarcopenia status in hospitalized older adults

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P208 • Factors associated with low muscle mass index in aging.

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P209 • Severity of Sarcopenia is Associated with Postural Balance and Risk of Falls in Community-dwelling Older Women

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P210 • Assessing Sarcopenia Risk Using Established Metrics in Obese, Middle-Aged and Older Appalachian Males

Allison Morris, BS1; *Margaret Drazba*, BS1; *Matthew J Delmonico*, PhD, MPH2; *Melissa Ventura Marra*, PhD, RDN1 (1) Division of Animal and Nutritional Sciences, West Virginia University, Morgantown, West Virginia; (2) Department of Kinesiology, University of Rhode Island, Kingston, Rhode Island (USA)

P211 • Prevalence of sarcopenia in aging: a Public Health problem.

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P212 • Design and Validation of a Software for the Diagnostic of Sarcopenia in Community-Dwelling Chilean Elders

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P213 • Variability among lean mass indices used for sarcopenia classification

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P214 • Prevalence of Sarcopenia with a Bipolar Impedanciometer at a Cardiac Rehabilitation Center in Bogotá, Colombia

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P215 • Lipid Accumulation Product is inversely associated with Skeletal Muscle Index indicating increased cardiometabolic risk in sarcopenic women.

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P216 • Association between sarcopenia and osteoporosis in community dwelling elderly patients ?

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P217 • Dynapenic-obesity as a risk factor for falls in older women

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P218 • Hand Grip Strength and Sarcopenia in Advanced Systolic Heart Failure Patients Receiving Left Ventricular Assist Devices

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