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

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### Preliminary Program • Thursday 1st March 2018

#### 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)

#### KEYNOTE 1
**Frailty: What’s been done and what needs doing**
Linda Fried Columbia University New York, NY, USA

#### KEYNOTE 2
**Muscle cell regenerative capacity and aging**
Charlotte A. Peterson University of Kentucky Lexington, KY, USA

### Ballroom 1 • Frailty

#### 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

#### Symposium 2
**Frailty Research at the Vetrans 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

#### Oral Communications

**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)**
Maropnick 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

**OC 2: Manual (stopwatch) and instrumental (gaitrite) evaluation of 4-meter preferred walking speed in older subjects with physical frailty**
Marcello Maggiori (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
David L Vetrano, MD, PhD, 1,2 *; Katie Palmer, PhD 3 *, Alessandra Marenzoni, MD, PhD 4, Emanuele Marzetti, MD, PhD 2, Fabrizia Lattanzio, MD, PhD 5, Regina Rolle-Winsberg, MD, MME 6, Luz Lopez Samaniego, PhD 7, Leocadio Rodriguez-Mañas, MD, PhD, 8, Roberto Bernabei, MD 2, and Graziano Onder, MD, PhD 2 on behalf of the Joint Action ADVANTAGE WP 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 OC 4: Health care utilization in non-geriatric patients with frailty phenotype
Miriam Zylberglait Usigurski, MD Carmen Cartwright, MD Sharmila Ravindranathan, MD Sameer Shaharyar, MD - Osman Perez, MD Aimee Almanzar, MD Jadidip 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 SYMPOSUM 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 Jenoff
• Recommendations for the standardization of the assessment of muscle strength and power: Jürgen Bauer
• Discussion leader: Jean-Marc Kaufman
• Conclusion: Olivier Bruyère

11:00/12:00 SYMPOSUM 4
The critical role of periodic Inactivity and Muscle disuse in worsening sarcopenia and Hardening 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 kinesiologie, 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, MarcellaRuddy, 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 Mamang MD MSc (1), Christos Galatas MD (2), Wayne Lok (3), Mina Girgis MD (2), Chams Cherid (3), Louis Mullie MD (1), Amanda Trikus MSc (3), Antoinette Colacino (4), Xiaoqing Xue MSc (4), Marc Affalvo MD (4), Jonathan Affalvo 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 OC 7: 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 Fernsando1, Tania P Markovic1,2, Janet Franklin2, Jackie Center3, Peter Y Li4, 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

Funlee Chang, Hayli E. Joiner2, Salvador N. Campise1, Kassandra Gonzalez1, Gurvinder Kaur3, Jannette M. Dufour2, Chwan-Li Shen4, 1 Department of Kinesiology, Health, and Nutrition, University of Texas at San Antonio, San Antonio, TX, 2. Department of 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 Laura Tay,2 Audrey Yeo,2 Suzanne Yew,2 Noor Hazifah,3 2,4 Yew-Yong 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, MPH 1, Mark Peterson, PhD 2, Philippa Clarke, PhD 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 Sempere, Sissi On, Biophysit, UPMC, BC9, 4 place Jussieu, 75005 Paris, France Blaise Didry-Barca, Stanislas Veilet Ren Ladont, Sorbonne Universités, UPMC Univ Paris 06, Paris-Seine Biology Institute (BIOISPE), CNRS, 75005 Paris, France Pierre Dilda, Biophysit, UPMC, BC9, 4 place Jussieu, 75005 Paris, France

3:00 **OC13:** Weight Change and Risk of FNIH Sarcopenia Project Low Lean Mass

John A. Batsis, MD1,2,3, Rebecca S. Crow, DO, Curtis Petersen, MPH3, Courtney J. Stevens, PhD1, Todd A. Mackenzie, PhD, MD, MS1,2,3 - TGeisel School of Medicine at Dartmouth, Hanover, New Hampshire, United States - 2Department of Medicine, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, United States The Dartmouth Institute for Health Policy, Lebanon, New Hampshire, USA

3:15 **OC14:** Inter- and intra-reader precision errors of volume of muscle and IMAT of the thigh in T1-Weighted Magnetic Resonance Imaging


3:30/4:00

**COFFEE BREAK**

4:00/5:00

**ORAL COMMUNICATIONS**

4:00 **OC15:** Muscular, visuospatial factors, and neuromotor factors as predictors of physical function in older adults

Nathan P. Wages, PhD1,2, Leatha A. Clark, DPT, MS1,2, Andrew M. Bryant, MA1, S. Julie A. Suh, PhD1,4, Todd M. Manini, PhD6, and Brian C. Clark, PhD1,2, 1 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 biomechanical 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. Hauston, PhD1, Janet A. Toone, PhD1, Marjolein Visser, PhD2, Frances A. Tylavsky, DPH, MS3, Anne B. Newman, MD, MPH4, Tamara B. Harris, MD, MSS, Stephen B. Kimchinsky, 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

4:45 **OC18:** High endogenous BCAA levels are associated with muscle strength and signatures of myosteatosis: friends or foes?

Eleonora Poggigalle, 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
KEYNOTE 4
Myostatin and other biomarkers of sarcopenia
Nathan Lebrasseur, Mayo Clinic Rochester, NY USA

KEYNOTE 5
Nutrition, sarcopenia and frailty
Cornel Sieber, F. Alexander-University Nuremberg, Germany

CONFERENCES

CONFERENCE 1
SPRINTT clinical trial update
Emanuele Marzetti, MD, PhD - Teaching Hospital “Agostino Gemelli”, (Rome, Italy)

CONFERENCE 2
Insight into the Intersection between Sarcopenia and Frailty: Relationship between Muscle Mass and Frailty Status
Paulo H. M. Chaves, MD, PhD, Benjamin Leon Center for Geriatrics Research and Education, Herbert Wertheim College of Medicine, Florida International University (Miami, USA)

COFFEE BREAK

SYMPOSIUM 5
Macrovascular and Microvascular Contributors to Sarcopenia in Aging and Disease
Moderator: Steven J. Prior, PhD, University of Maryland
- Skeletal muscle capillarization as a determinant of muscle fiber size and muscle mass in the development of sarcopenia
  Odessa Addison, DPT, PhD, University of Maryland School of Medicine
- Endothelial function and nutritive flow as potential determinants of anabolic resistance and sarcopenia
  Elena Volpi, MD, PhD, University of Texas Medical Branch at Galveston
- Skeletal muscle capillarization and satellite cell function: Implications for interventions targeting sarcopenia.
  Tim Snijders, PhD, Maastricht University Department of Human Biology and Movement Sciences

LUNCH BREAK

SYMPOSIUM 6
Osteoporosis and sarcopenia: Two diseases or one?
Moderator: Olivier Bruyère, MD PhD, Department of Public Health, Epidemiology and Health Economics, University of Liège, Liège, Belgium
- Lifetime course of muscle and bone wasting
  Cyrus Cooper, MD Ph D, MRC Life course Epidemiology Unit, University of Southampton, Southampton, UK
- Role of nutrition and physical exercise in the prevention of bone and muscle wasting
  MD-René Rizzoli, MD PhD, Division of Bone Diseases, Faculty of Medicine, Geneva University Hospitals, Geneva, Switzerland
- What can we learn from osteoporosis to get a treatment against sarcopenia approved?
  Jean-Yves Reginster, MD PhD, Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium

CONFERENCE 3
Sarcopenia in hospitalized older people: the Italian experience of glisten study
Francesco Landi, MD, PhD - Catholic University of the Sacred Heart, Rome, Italy

CONFERENCE 4
Sarcopenia and frailty guidelines update in Asia
Hidenori Arai, National Center for Geriatrics and Gerontology, Japan

CONFERENCE 5
A Novel non-pharmalogical intervention to improve physical health in obese elderly: citrulline with high intensity interval training.
Aubertin-Leheudre Mylène, PhD, Université du Québec Montréal, Quebec-Canada
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, FRCP(C) 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

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 4Toomers 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
Takaki Ikeda1,2; Junaida2; Toru Tsuboya2; Yusuke Matsuysama3,4; Shihoko Koyama2,5; Kemmyo Sugiyama; Katsunori Kondo6,7; Ken Osaka2 1. Department of Rehabilitation, Sendai Sejo 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. Wamigatunga, PhD, MPH (1,2), Ravi Vora2, 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 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?
- Design and implementation of the MID-FRAIL study
- Main results and conclusions
Prof. Leocadio Rodriguez-Mañas MD, PhD; Geriatric Department, Getafe University Hospital, Getafe, Madrid, Spain
12:00 | ORAL COMMUNICATIONS

12:00 | **OC 21:** Identifying Frailty Using the Electronic Medical Record within a Medicare Accountable Care Organization
Nicholas M. Papavasiliou, PhD1, Kristin Leenot, MS2, Brian J. Wells, MD, PhD2, Jeff D. Williamson, MD, MHS3, and Kathryn E. Callahan, MD, MSc3 (1) Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA (2) 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, PhD1,2,3*, Quincy J. Almeida PhD4, Richard Camicioli MD5, 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; 2 Department of Epidemiology and Biostatistics, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada.; 3Gait and Brain Lab, Parkinson 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 | LUNCH BREAK

1:30 | ORAL COMMUNICATIONS

1:30 | **OC 23:** Age-related decline in D3Cr muscle mass (but not DXA lean mass) is correlated with decline in walking speed
Peggy M. Carsehan (1,2), Katherine Peters (1), Eric S. Orvold (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 | **OC 24:** High and low response to high intensity interval training correlates with distinct muscle miRNA 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, Yujin SunPh.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 | **OC 25:** 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 1Department of Medicine, Dalhousie University, Halifax, Canada (2)Centre for Health Care of the Elderly, Nova Scotia Health Authority, Halifax, Canada

2:15 | **OC 26:** 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, Angel M. Di Pierro1, Silvia Giuliani1, Ulrich Laufs4, 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 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 Renta V1, Talluri E1, Grillari J2,3, Hackl M2, Skaliczy S2, Bandinelli S1 (1) Laboratory of Clinical Epidemiology, InCHeANTI 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 | **OC 28:** 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 | **OC 29:** Microbiota and metabolic danger sensing contribute to sarcopenia
J Schertzer - Dr. Jonathan D. Schertzer, McMaster UniversityMcMaster University Hamilton canada

3:15 | **OC 30:** 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 | 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

**CONFERENCE 11**

**New healthy ageing framework: updates from the WHO Clinical Consortium on Healthy Aging**

Islene Araujo de Carvalho (Genève, Switzerland)

### 9:00

**CONFERENCE 12**

**Cognitive Frailty: From Conceptual Proposal to Clinical Practice**

Liang-Kung Chen1,3, Hiroyuki Shimada2, Li-Ning Peng1,3, Chih-Kuang Liang1,3, Hidenori Arai1,2

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

### 9:15

**SYMPOSIUM 8 - IANA**

**Muscloskeletal health throughout the lifespan: role of nutrition**

Moderators: Lesli 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

### 9:30/10:30

**CONFERENCE BREAK**

### 10:30-11:00

**SYMPOSIUM 9 - IANA**

**Nutrition, Frailty and Sarcopenia**

- **Association of Leisure-Time Physical Activity with Low Lean Mass using the FNIH 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. Seger 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 HNRC 711 WashingtonSt. Boston Ma USA

### 12h30/1h30pm LUNCH BREAK
**ORAL COMMUNICATIONS**

**09:00**

**OC37:** Aging-associated changes in skeletal muscle morphology assessed by intramuscular adipose and connective tissue

*Jaclyn Sesso*, Yoko Kata, Jeremy Walston, Karen Bandeen-Roche, Joao AC Lima, Bharath Ambale Venkatesh

1. Johns Hopkins University, Baltimore, MD, USA
2. Radiology, Johns Hopkins University, Baltimore, MD

**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

**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 Tincini*, Fulvio Lauretani, Mario Pedrazzoni, Sara Tagliaferri, Tiziana Meschi, Marcello Maggio, Marco Narici - Department of Biomedical sciences, University of Padova, Italy

**09:45**

**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 Goncalves Ricci Neri, MS1, Baruch Vainshelboim, PhD2, Andre Bonadas Gadelha, PhD1, Martim Bottaro, PhD1

1. Faculty of Physical Education, University of Brasilia, Brasilia, Distrito Federal, Brazil
2. 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 PPhysical frailty and Sarcopenia: results from the BIOSPHERE study

*Anna Pecor*, 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, PhD - Catholic University of the Sacred Heart Italy Rome

**10:15**

**OC42:** Body composition remodeling and incident mobility limitations in African Ancestry Men

*Akira J Santana*, 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

1. (1) Department of Epidemiology, University of Pittsburgh
2. (2) McMaster University, Hamilton, ON, Canada
3. (3) Tobago Health Studies Office, Scarborough, Tobago, Trinidad & Tobago
4. (4) Department of Human Genetics, University of Pittsburgh

**10:30-11:00**

**COFFEE BREAK**

**11:00**

**ORAL COMMUNICATIONS**

**11:00**

**OC43:** Co-application of LMHVF and HMB Retards Sarcopenia by Reducing Intramyocellular Fat Infiltration in Sarcopenic Mice

*Wang J T*, Chow SKH1, Wong RMY1, Chin YN1, Leung KS1, Cheung WH1

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 Dioh*, Carole Margareta, Gianluca Zia, Stanislas Veillet and Susanna Del Signore Biophytis 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, Regnster JY MD-PhD3 Bruyere O MD-PhD3,4 and Chapurlat R, MD-PhD3

1. INSERM 1033, Lyon, France
2. (2) Department of Clinical Chemistry, University of Lille, Belgium
3. (3) Department of Public Health, Epidemiology and Health Economics, University of Lille, Belgium
4. (4) Department of Sports Sciences, University of Lille, Belgium
5. (5) Hôpital E. Héruet, 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 Dikaw*, MSc1, Chris McGlory, PhD1, Nelson J 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
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 Gharabaghi1, 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, Huangle 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-Amezcu, MD, MHS, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health Vadim Zipunnikov, 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 Sols Herrera, MD, PhD, Human Photosynthesis (TM) Research Center, M del Carmen Arias Estparza, MD MSc, Human Photosynthesis (TM) Research Center, Ruth Isabel Salis Arias, MD, Human Photosynthesis (TM) Research Center. (Mexico)

P2 • Impact of Frailty in Neurological Patients: a Key Contributor to Clinically Meaningful Muscle Weakness (i.e., Dynapenia) in Elderly Women
Lea A. Clark, MD, MSc, Leon Chodzko-Zajko, PhD, David W. Ross, PT, PhD, Miranda N. Thompson, MSc, Brian F. VIEWER, MSc, Brian C. Clark, PhD, 4, 5, 6 (1) Ohio Musculoskeletal and Neurological Institute (OMNI) at Ohio State 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 Rodenacker, MD, MPH1, Dhayana Dallmeier-D5, MD, PhD1, Michael D. Denninger MD2, Berndh O Boehm MD3, Wolfgang Koepen MD4,5, Jochen Kléph MD1. (1) Institute of Epidemiology and Medical Biometry, German Center for Neurodegenerative Diseases (DZNE), German Center for Neurodegenerative Diseases (DZNE), Ulm, Germany (3) Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, Singapore (5) Imperial College London, London, UK

P6 • miRNAs and Hemoglobin in Elderly
Takui N., Del Panta V, Grillari J, O., Hackl M, Skliky S, Bandinelli S1 (1) Laboratory of Clinical Epidemiology, InCHIANT Study Group, LHTC Local Health Tuscany Center, Florence, Italy (2) TalmirNA GmbH, Vienna, Austria, (3) Christian Doppler Laboratory for Skin Aging, Vienna, Austria, (4) German Research Institute on Aging, Munich, Germany

P7 • Gait speed impairment associated with sleep disturbances in community older people in Peru
Leyva N, Parejas C, Vargas J, Urubal C, Peñado A, Altoja C, Cusco T, Tapia H, Varela A, Geriatric Medicine Unit, Centro Andina University, Lima, (Peru)

P8 • Candidate Biomarkers of Intrusive Capacity in the Toledo Study of Healthy Aging: a longitudinal study
S Walter, PhD1, 2, B Davies MD1, F Garcia MD1, 3, L Rodriguez-Maizas MD1, 4, 5, 6, a fraFrajall and Science Engineering Trust Fund under the Toledo Study (TOSA) (GFRISTM) (1) University of Toledo, Toledo, Ohio, USA (2) University of California, Los Angeles, USA (3) University of Illinois at Chicago, Chicago, USA (4) University of Texas at Austin, Austin, Texas, USA (5) University of Cincinnati, Cincinnati, OH, USA (6) University of Toledo, Toledo, OH, USA

P9 • Inflammatory biomarkers in socially active older people: description and association with Sarcopenia and its diagnostic criteria
Karen Melo de Mattos Machado1, 2, Nataniel Jesus Schuch M D, PhD1, 2, 3, Adriana Costa Bastos BS, 4, Thaiss Duarte MS, 5, Cristiane Maria Medeiros Freire. 6, 7, Maria Gabriela Valle. (1) Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. (2) Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil. (3) Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil. (4) Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil. (5) Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil. (6) Universidade Federal de Santa Maria, Santa Maria, RS, Brazil. (7) Universidade Federal de Santa Maria, Santa Maria, RS, Brazil. (8) Universidade Federal de Santa Maria, Santa Maria, RS, Brazil.

P10 • Comparison of the occurrence of falls and non-sarcopenic elderly women
Patricia Police Barata, MSc; Luana Almeida de Sa Cavalcante, MSc; Jessica Rodrigues Almeida, PT; Isabella Letícia de Padua Cruz e Souza; Lucélia Piacco Lutut. PhD Postgraduate program in Rehabilitation Sciences, Physiotherapy University, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil

PHYSICAL FRAILTY AND AGE-RELATED BODY COMPOSITION MODIFICATIONS

P11 • The discriminative ability of SARQLo® according to the definition of sarcopenia: the OFLEY Study
Elisabeth Somain-Rendu C, Boulouard O, Buyse M, CHIRURGIE 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. Stock, PhD1, Morgan Whlison, MS2, Adam M. Burton, BS1, Nicole T. Dawson, PT, PhD3, GC5, Brennan J. Thompson, PhD4, Eric J. Sobolewski, PhD1, 2, 3, 4, 5, 6 (1) Applied Physiology Laboratory, Doctor of Physical Therapy Program, University of Central Florida, Orlando, FL, USA (2) 275 Research Clinical Laboratory, Laboratory of Dr. Joel Saltz, Department of Family Medicine, University of Central Florida, Orlando, FL, USA (3) 275 Research Clinical Laboratory, Laboratory of Dr. Joel Saltz, Department of Family Medicine, University of Central Florida, Orlando, FL, USA (4) 275 Research Clinical Laboratory, Laboratory of Dr. Joel Saltz, Department of Family Medicine, University of Central Florida, Orlando, FL, USA (5) 275 Research Clinical Laboratory, Laboratory of Dr. Joel Saltz, Department of Family Medicine, University of Central Florida, Orlando, FL, USA (6) 275 Research Clinical Laboratory, Laboratory of Dr. Joel Saltz, Department of Family Medicine, University of Central Florida, Orlando, FL, USA

P13 • Evaluation of calf circumference and median gastrocnemius thickness in prefrail Community-dwelling older women
Luiza Crijita Fazzu Pitta, PT, MSc1, Simone Biesek S MS2, Jarbas Melo Filho,PT, MSc1, Audrin Said Wojciechowski PT3, André Bonfim Ferreira UG4, Gabriela de Almeida Torres UG4, Estela Irici Rabin PhD1, 2, Costa Rodrigo Lopes, MD1, 2, 3, de Macedo Silveira, MD1, 2, 3, (1) Unidade de Fisioterapia, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. (2) Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. (3) Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil, (4) Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil.

P14 • Comparison of different methods to measure muscle mass in prefrail community-dwelling older women
Luiza Crijita Fazzu Pitta, PT, MSc1, Simone Biesek S MS2, Jarbas Melo Filho,PT, MSc1, Audrin Said Wojciechowski PT3, André Bonfim Ferreira UG4, Gabriela de Almeida Torres UG4, Estela Irici Rabin PhD1, 2, Costa Rodrigo Lopes, MD1, 2, 3, de Macedo Silveira, MD1, 2, 3, (1) Unidade de Fisioterapia, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. (2) Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. (3) Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil, (4) Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil.

P15 • Inflammatory frailty index and mortality after kidney transplantation
Christine E. Kjaer, MD1, Bente Thygesen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carina Carstensen, MD2, Carin

P16 • Frail But Active: Coping with Physical Challenges of Later Life
Ninfa B. Ogura, PhD. University of the Philippines Population Institute and John Andrew G. Evangelista Department of Sociology, University of the Philippines-Diliman (Philippines)

POSTERS • Thursday 1st March 2018

ICFSR 2018 • Miami Beach • P11
COGNITIVE FRAILTY

P31 • Prevalence of Related Factors of Cognitive Frailty in China
Lina Ma, Li Zhang1, Yaxin Zhang1, Li Li2, Zhe Tian1. P1 Lab of Geriatrics, Beijing General Hospital, Capital Medical University, Beijing, China

P32 • Association between frailty and cognitive impairment: cross-sectional data from Toulouse frailty day hospital
Bertrand Fugere1,2, Matthieu Daumais1, Matthieu Lbilland3,2, Sandrine Sourdet1,2, Julien Delhez1,2, Bruno Vellas1,2, Gabar Aboelan van K3,1,2 1Gerontollipop, Centre Hospitalier Universitaire de Toulouse, Toulouse, France. 2 Insr UNIV3,10027, Universite de Toulouse III Paul Sabatier, Toulouse, France. 3 APHP: Department of Geriatrics, Bichat University Hospital, Paris, (France)

P33 • Parenting grandchildren is more beneficial to cognitive function than physical function in urban community dwelling older adults
Yuyang Han1,2, Linda Suryakumara1,2, Yuda Tanaz1,2 1Department of Psychology, Faculty of Medicine, Atma Jaya University Indonesia. 2Department of Gerontology, Faculty of Medicine, Atma Jaya University Indonesia

P34 • Parent and Stakeholder Involvement in Action: Including frail older people and clinicians in designing a study to evaluate a complex, primary care-based intervention
Helen London, Nurse Consultant Older People/National Institute of Health Research Clinical Academic Doctoral Research Fellow, Plymouth University, UK. Jos M. Latour, Professor in Clinical Nursing, Plymouth University, UK. Borghi, PT, PhD - Northwestern University Danie Corcos, PhD - Northwestern University (USA)

P35 • Inflammatory biomarkers of late-life frailty and cognitive decline predict neurodegeneration
Tao Wang, PhD; Feng Zhang, PhD; Tao Wang, PhD; Caihong Chen, PhD; Meilin Xie, PhD; Pingping Zhang, PhD; Pingping Zhang, PhD; Jiabin Wang, PhD; Weihong Gao, PhD; Hua Chen, PhD; Xuan Li, PhD; Qingjuan Shi, PhD; Zhangjun Zhang, PhD; Weihong Gao, PhD; Zhen Liu, PhD; Dong, PhD; Xiangyang Zhao, PhD; & Bonnie Levin, PhD. All authors from the University of Miami, Department of Neurology, Miami, FL (USA)

P36 • Effects of an intergenerational exchange program between nursing students and community healthy elderly
Hiroe Hayashi1) Pingping Zhang1) 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
Christoph Hafer, MD;挂着健康服务研究，东部健康联盟，新加坡 4 Tiong Shao Chuen,挂着健康服务研究，东部健康联盟，新加坡 4, Singapore

P38 • Longitudinal Relationship between Knee Muscle Strength and Incident Frailty: Data from the Osteoarthritis Initiative
Saud M. binDawat2, PhD (1,5) (1) Department of Rehabilitation Sciences, King Saud University, Riyadh, Saudi Arabia; 2Physiotherapy Department, South London and Maudsley NHS Foundation Trust, Denmark Hill, London, SES BAZ, United Kingdom; 3Physical Therapy and Population Research Department, Institute of Psychiatry, Psychology and Neuroscience King’s College London, De Crespigny Park, London, Box SES BAZ, United Kingdom; 4Faculty of Health, Social Care and Education,Anglia Ruskin University, Bishop Hall Lane, Chelmsford, CM1 1JQ, UK

P39 • Longitudinal relationship between frailty, cross-sectional, and frailty-related health outcomes in older adults from the Three-City Bordeaux Study
SMarina Sufio Topouzo1, MD1, PhD2,3, Sophie Pilleron1, MD2,3, Solange Aujesky1, MD1, Catherine Helmer1, MD2,1, Jean-François Dartigues1, MD2,3, Catherine Feart1, MD2,1 1 Univ Bordeaux, Inserm, Bordeaux Population Health Research 2Centres, UMR 1219, F-33000 Bordeaux, France 3CHU de Guadeloupe/Université des Antilles (France)

P40 • A Community-Engaged Approach to Conduct, Develop, and Pilot an Exercise Program for Frail Older People: Collaborative Work with Frailty and Home Care Aides
Margaret Danischovic, PT, DPT, PhD - Northwestern University Laura Diaz, BA - Northwestern University Gustavo Saberein, M.S. - Help at Home, Inc. William Healey, PT, EdD - Northwestern University Gail Huber, PT, PhD - Northwestern University Daniel Corcos, PhD - Northwestern University (USA)

FRAILTY IN CLINICAL PRACTICE AND PUBLIC HEALTH

P31 • Anthropometric measurements, number of comorbidities and medications in use in Brazilian elderly women at risk of sarcopenia
Patrícia Parentea Batista, MSc; Patrícia Sena Peixoto, MSc; Kellen C. Chaves de Almeida Antunes de Morais, PT; Taciante Mendes Costa Silva; Lygia Piacco Loulos, PhD Postgraduate program in Rehabilitation Sciences, Physiotherapy Department, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, (Brazil)

P32 • Anthropometric Assessment and Body Composition of Female Students in a Nigerian University
Ignatius Akhakha Otimawo PhD Ayhemenne Efekehchieb, PhD Maureen Olorie, BSc Department of Biochemistry, Ambrose Alli University, Ekpoma, (Nigeria)

P41 • Postural sway and physical frailty in elderly patients treated with anti-inflammatory drugs
Christine Yuanxin Chen, PhD; Chua Melvin, MBChB1, Tay Ee Ling, MS2, Chan Hui Nam, MD1, Ching Germaine, MB4A, Mohammad Rizal, BSN5, Ng Ye Sien, MBBS6 1Department of Geriatric Medicine, Changi General Hospital, Singapore 2Department of Internal Medicine, National University Hospital, Singapore 3. Christopher Koo Chieh Yang Registrar, department of cardiology, national university heart centre, singapore 4. Wilson Goh Year 4 MBBS, Singapore 5 Department of Geriatric Medicine, national university hospital 2 christopher loo chih yang Registrar, department of cardiology, national university heart centre, singapore 3. William gin Year 4 medical student yang loo in school of medicine, national university of singapore 4. Goh shen Year 4 medical student yang loo in school of medicine, national university of singapore 5. Sathish Senthilaguruman, Division of geriatric medicine, national university hospital 6. Rishita Bloem, national university hospital 7. Department of Geriatric Medicine, national university hospital
P48 • Rapid Multi-Domain Geriatric Screen and Fitness Assessment Identifies (Pre)Frailty and Its Potentially Modifiable Risk Factors in Community-dwelling Older Adults

Jay Taylor, MBBS1, Chau Melvin, MBCHB1, Tay Le Ding, MS2, Chan Hui Nam, MDoctis3, Chng Germaine, MBAA, Mohamad Rizal, BS5, Ng Yee Siew, MBBS6 1Department of General Medicine (Geriatric Medicine), Sengkang General Hospital 2Physiotherapy Department, Sengkang General Hospital 3Dietetics, Sengkang General Hospital 4Nutrition and Dieting, Sengkang General Hospital 5Shunning Department, Sengkang General Hospital 6Rehabilitation Medicine, Singapore General Hospital (Singapore)

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

Celia M Ross PhD, MS1 (1) Delaware Gerontology Institute, LLC, Wilmington DE, (USA)

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

Deyoum Lim Lee Kang Chian School of Medicine, Nanyang Technological University, Singapore Tay Laura, Department of General Medicine (Geriatric Medicine), Sengkang General Hospital, Singapore Naoko Hatoh, Institute of Geriatric and Active Ageing, Toh Tuck Seng Hospital, Singapore Naoko Yawu Sanna, Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore Ding Yew Young, Department of Geriatric Medicine. Tan Tock Seng Hospital. Singapore Lim Wei Shong, Department of Geriatric Medicine. Tan Tock Seng Hospital. Singapore

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

Christine Lafont Justine de Kermet, Neda Tavassoli, Malena, Sandrine Souard, Tahi Nourouhashemi, Bruno Vellas. Toulouse Gerontopole, Regional Team an Aging and Prevention of Dependency, Toulouse University Hospital (France)

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

Justine de Kermet Neda Tavassoli, Christine Lafont, Malena, Soa Tahi, Viktoria GneinickRolland, Bruno Vellas Toulouse Gerontopole, Team Regional on Aging and Prevention of Dependency, Toulouse University Hospital (France)

P53 • Construction of a frail identity within a NHS Day hospital setting

Chantel Coq RGN Milles 1,2, Caroline Ellis-Hill PhD, 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 Health Outcomes After Total Joint Arthroplasty?

Laura Hubert, MD1,2,3, Nathaniel Hupert, MD2, MPH (1), Matty Sasaki, MPH, M1, Justin D. Boe, BSE (1), Charles N. Cornel, MD1,2,2(1), Michael R. Cross, MD (1,2), Alejandro Gonzalez DeLa Valle, MD (1,2), Mark P. Foggie, MD1,2(1), Seth A. Jerubek, MD2(1), Jackie Smynickova, MA1, Steven K. Magid, MD1,2(1) (2) Hospital for Special Surgery, New York, NY. (3) Well Cornell Medicine, New York, NY. (3) The Hospital for Special Surgery, New York, NY

P57 • Frailty as a Risk of Falls among Community-Dwelling Older Australians

Aliab M. Schmucker BA1, Nathaniel Hupert MD (2), Claudia Figueiroa MD, MSc1 (1) De law are G e rontology Institute , LLC, W ilm ington DE, (USA )

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

Natália Boneti Moreira, MSC2, José Luzo Felix Rodacki, PhD2, Gisleb Pereira, PhD2 1Physiotherapy Department. Dom Bosco College. Curitiba, Paraná, (Brazil)

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

Zubair Rahman1, Kimberly Cabrera1, Shisani Priyadarsini, MD2, Michael J. Mintzer1, 2, 2Stud Deng1, 3, Willys Marcos Valenciano1, 3, and Jorge G. Ruiz1, 3 3Maiami VAHCS Veterans Successful Aging for Elder Frail Veterans (SAVE) 2IU Herberth Werthenn College of Medicine 3University of Miami Miller School of Medicine 4CU Herbert Werthenn College of Medicine (USA)

P60 • The interaction of frailty and sarcopenia in advanced epithelial ovarian cancer patients undergoing primary debulking surgery

Sruthi N nelluri1, M ercedes Rodrigue z2,3, Zubair Raham an1, Kimberly Cabrera1, M ariana Carm e m Apolinário V ieira, PT, M Sc2,3, Rafae lla Andrade do N ascimento, PT, M Sc2,3, M ayleAndre da M oria, PT, PH D-UFRN2,3, Sainonara Maria Aires da C âm ara, Ph D-UFRN2,3, W illy M arcos V ale ncia1,3, and Jorge G. Ruiz M D and Michael J. M intzer1,2, Stuti Dang1,3, W illy M arcos V ale ncia1,3, and Jorge G. Ruiz

P61 • Diagram criteria and prevalence of sarcopenia in middle aged and elderly women from Northeast Brazil: a cross-sectional community based study

M iriam Zylbergait Lisigurski, H ilana Rickli Fiuza M artins MS1, Ruan Felipe Michalouski UGS2, G abrie la Carrascosa M olina UGS2, Luiza Bendingly, MS1 (1) De law are G e rontology Institute , LLC, W ilm ington DE, (USA )

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

Shisani Priyadarsini, Zubair Rahman1, Kimberly Cabrera1, Shisani Priyadarsini, MD2, Michael J. Mintzer1, 2, 2Stud Deng1, 3, Willys Marcos Valenciano1, 3, and Jorge G. Ruiz1, 3 3Maiami VAHCS Veterans Successful Aging for Elder Frail Veterans (SAVE) 2IU Herberth Werthenn College of Medicine 3University of Miami Miller School of Medicine 4CU Herbert Werthenn College of Medicine (USA)

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

Sruthi N nelluri1, M ercedes Rodrigue z2,3, Zubair Raham an1, Kimberly Cabrera1, M ariana Carm e m Apolinário V ieira, PT, M Sc2,3, Rafae lla Andrade do N ascimento, PT, M Sc2,3, M ayleAndre da M oria, PT, PH D-UFRN2,3, Sainonara Maria Aires da C âm ara, Ph D-UFRN2,3, W illy M arcos V ale ncia1,3, and Jorge G. Ruiz M D and Michael J. M intzer1,2, Stuti Dang1,3, W illy M arcos V ale ncia1,3, and Jorge G. Ruiz

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

Ilana Richi Fiuza Martins MS1, Raun Felipe Michelauki UGS2, Gabriella Carrascosa Molina UGS3 UGS3, Luisa Bendingly, MS2, Azadin Said Vojcichowski PT3, Simone Bilek MS1, Jarbas Melo Filho MS1, Luiza Herminha Gasparetto MS1,1,1 (1) Students in Physical Education, Federal University of Parana, Curitiba, Paraná, Brazil. (2) Student in Physiotherapy Undergraduate Course, Federal University of Parana, Curitiba, Paraná, Brazil. (3) Master student in Physical Education, Federal University of Parana, Curitiba, Paraná, Brazil. (4) Prevention and Rehabilitation in Physiotherapy Department, Federal University of Parana, Curitiba, Paraná, Brazil.

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

M iami VAHCS G RECC, M DA, Francisco José G arcía-G arcía PhD, MDa H ospital Virge n de l Valle, Com ple jo H ospitalario de  Tole do (Spain)

P66 • Clinical and biometrical factors to elderly population from elderly in hospital referrers in Santander in years 2016 and 2017

M ari C erdar MD,1 Claudia Figueiroa MD MSc1, M arius C erdar MD1, Andrés Ochoa1, Fabio Suarez1, Paula Casanova MD1, Diego Moreno MD1, M DA, Internal Medicine Residency Training Program. Avenuta H ospital and Medical Center. USA 2 Centre Hospitalier Universitaire de Toulouse, (France)

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

Cristina Rosado-Artalejo MDA, Jose Antonio Carrico MD b, Jose L osa-Reyna PHD a, Beatriz Cobos Antoranz MDA, Ana Alfaro-Acha PHD a, MDa, Carmen Castillo-Gallo PHD a, M DA, Leocadio Rodrigo-Marianas PHD a, M DA, Francisco Garcia-Garcia MD a, M DA, Hospital Virgen del Valle. Complego Hospitalario de Tolo (Spain)

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

Juan Baltasar-Fernández Ana Alfaro-Acha MD, PhD2, Maria Isabel Gutiérrez Espinosa2,2, Roberto Navarro-Cruz1,1, Carlos Rodríguez-López1, Francisco José García-García MD, PhD2,2, Luis Alegre-Duran, PDN1,3, Jose L osa-Reyna PHD, PT2,3, 3GENUD (Groguh, Exercise, Nutrition and Development) Research group, University of Castilla-La Mancha, Toledo, Spain 2 Frailty Unit. Dpt. of Geriatric, Hospital Virgen del Valle of Toledo, Toledo; Spain 3 CIBER of Frailty and Aging (CIBERFES), Spain
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 Yamashina, 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
Damani A. Piggott1, Anton Rest2, T. Alafia Samuels3, R. Clive Landis4, Gregory D. Kirk (1) Johns Hopkins University, Baltimore, MD, USA 2 Barbados Ministry of Health, Bridgetown, Barbados 3 University of the West Indies George Alleyne Chronic Disease Research Centre, Bridgetown, Barbados 4 University of the West Indies Cave Hill, Bridgetown, Barbados (USA)

P78 • Frailty Status and Advance Directives
Alejandro A. Robles-Torres1, Shivani Priyadarshini2, Michael J. Mintzer3, Stuti Dang2,4, Willy Marcos Valencia2,4, and Jorge G. Ruiz2,4 1Jackson Memorial Hospital, Miami, Florida, USA 2Miami VAHS GRECC Veterans Successful Aging for Frail Elders (SAFE), Miami, Florida, USA 3 FIU Herbert Wertheim College of Medicine, Miami, Florida 4University of Miami Miller School of Medicine, Miami, Florida, USA

P79 • Grip strength along with calf circumference screen out sarcopenia well in community dwelling old people
Lin Su MD 1,2,3, Li Cao MD 1,2,3, Hui Wang MD 1,2,3, Shan Hao MD 1,2,3, Yongdong Dong MD 1,2,3, 1. the Center of Gerontology and Geriatrics, West China Hospital, Sichuan University; 2. National Clinical Research Center of Geriatrics, West China Hospital, Sichuan University; 3. Collaborative Innovation Center of Sichuan for Elderly Care and Health, Chengdu 610041, China

P80 • Predictive Validity of the Brazilian version of the Rapid Geriatric Assessment
Fabiana de Souza Orlandi: Rafaella Brochine Lanzotti; Juliana Gomes Duarte; Silvia Matumoto; Henrique Novais Mansur; Marcia Regina Cominetti; Sofia Cristina 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); Rafaella 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)
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, MS1,2, Linda Coreia PTA1, Katina Costa PT1, Michael R. Cavaletti PT1, Samara Alencar PT1, Edgar Ramos Vieira PT2, PhD2, Jamilson Brasilera PT1, PhD1. (1) Department of Physical Therapy, Federal University of Rio Grande do Norte, Natal, Brazil; (2) Vitoria University, Vitoria, Espirito Santo, Brazil

P130 • High resolution metabolomic profiling of aerobic exercise abnormalities in chronic stroke survivors
Monica C. Terr1, Dr. Chelene E. Hafer-Mac2, MD2, Carlos Esteban3, MD3, Kathryn R. McCoy4, B.S.4, 5, 6, Stephen Anton Ph.D.1, 4-1. Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA 2 University of State of Bahia, 3 University of Pernambuco, Brazil 4 Department of Clinical and Health Psychology, University of Florida, Gainesville, FL, USA

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 Booreboom 1,2, Philip JJ Herrard 1,2, Jan N Lundh MD 1,2, John P Williams MD, PhD 1,2, Behdan F Phillips 1, PhD 1 (1) MRC-ARKU Centre for Musculoskeletal Ageing, University of Nottingham, UK (2) Division of Surgery and Anaesthetics, Royal Derby Hospital, UK

P133 • Longitudinal associations between body composition and 25-hydroxyvitamin D in community-dwelling older adults
Alexandra Jungert uses Liebig University Giessen, Germany Monika Neuhäuser-Berthold, Justus Liebig University Giessen, Germany

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
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P135 • Three-year adverse health consequences of sarcopenia in community-dwelling older adults: results from the SarcoPhAge cohort study
Cheelelaa, J.C. 1, PhD, A. Charle1, MSc, PhD candidate, T. Brunois1, MSc, C. Lenaerts1, MSc, J.Y. Regis1, M.D., PhD, J. Peremans2, M.D., PhD, O. Bruyère1, PhD1. 1 Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium 2 Department of Geriatrics, University Hospital, University of Liège, Belgium

P136 • Sarcopenia and dynapnic obesity increase mortality among brazilian older adults: a 15 year follow up of the SABE study
Jaz Lício Ferreira Santos PNT1, Yeda Aparecida do Oliveira Duarte PNT1, Tiago da Silva Alexandre PNT1, Clarissa de Lacanada Nazario MNT1, Jorge Alexino Bento PNT1, PhD (1) Faculdade de Medicina de Ribeirão Preto - USP, (2) Escola de Enfermagem USP (2) Centro de Ciências Biológicas e da Saúde USPFCAR, (4) Escola SABE - FSP USP, (5) Escola SABE - FSP USP (Brazil)

P137 • Prevalence and risk factors of sarcopenia among elders living in long-term care institutions in Taiwan
Chien-Ching Chi PhD candidate1, Cha-Feng Yen PhD, 1 Institute of Medical Science, Taichung City Hospital, Hsinchu, Taiwan 2 Department of Public Health, Taichung City Hospital, Hsinchu, Taiwan

P138 • Frailty and Diabetes Among Mexican American Older Adults
Beat H Torp1, PhD,1-2 Soham A1, MD, PhD2 Arjuna S. Markides, PhD; 3 Kenneth J. Ottenbacher, PhD1 Department of Family Medicine, University of Texas Medical Branch, Galveston, TX, USA 2 Division of Rehabilitation Sciences, University of Texas Medical Branch, Galveston, TX, USA 3 Department of Preventive Medicine & Community Health, University of Texas Medical Branch, Galveston, TX, USA

P140 • Patient’s engagement in the identification of critical outcomes in sarcopenia
Charlotte Beaudart1-2, Olivier Bryreuy2, Jean-Yves Requin2, Jeroen Bauer3, Cesar Coelho4, Jean-Yves Requin5, 6, Jurgen Bauer3, M.D., 7, Michael Hilgermann6, 7, 8 Department of Public Health, Epidemiology and Health Economics, University of Liège, Liege, Belgium 2 WHO Collaborating Centre for Public Health Aspects of Musculo-Skeletal Health and Ageing 3 Centre for Research in Exercise, Sport and Health, University of Birmingham, UK 4 IOB Musculoskeletal Biomechanical Research Unit, Utrecht University, Utrecht, The Netherlands 5 Institute of Orthopaedics, Oxford, UK 6 Instituto de Geriatria, Hospital Universitario Ramón y Cajal (IRYCA), Madrid, Spain 7 Department of Geriatrics,Neurosciences and Orthopedics, Catholic University of the Sacred Heart Rome, Milan, Italy 8 National Research Council, National Institute of Neuroradiology, Via Giulia, 20256, Rome, Italy, 9 Institute of Bone Diseases, Faculty of Medicine, Geneva University Hospitals, Geneva, Switzerland 10 Gerontology and Geriatrics Research Center of University Toulouse III, CHU Purpan, Toulouse, France 11 Department of Research Services, CAPIRR Care and Public Health Research Institute, Maastricht University, Maastricht, (The Netherlands)

P141 • Dietary approach of the frailty status in nursing homes: the SENIOR Cohort E. Buck1, PhD, A. Charles, MSc, PhD candidate, T. Brown1, MSc, C. Lenaerts1, MSc, J.Y. Regis1, MD, PhD1,2, O. Bruyere1, PhD1. 1 Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium 2 WHO Collaborating Centre for Public Health Aspects of Musculo-Skeletal Health and Ageing 2. Geriatrics Department, CHU, Liege, Belgium

P142 • Sensory impairment and dependency, a prospective study among French elderly women: results from the E3N cohort study
Bruno Vacher, M.D., PhD, 1, 2, 3, 4, 5 Soham A1, MD, PhD2 Arjuna S. Markides, PhD; 3 Kenneth J. Ottenbacher, PhD1 1 Department of Family Medicine, University of Texas Medical Branch, Galveston, TX, USA 2 Division of Rehabilitation Sciences, University of Texas Medical Branch, Galveston, TX, USA 3 Department of Preventive Medicine & Community Health, University of Texas Medical Branch, Galveston, TX, USA 4 Center for Research in Epidemiology and Population Health, Villejuif, France, 5 Paris University-Sorbonne, Paris University-Sud, Villejuif, France, (3) Gustave Roussy, F-94805, Villejuif, France, (4) MGEN Foundation for Public Health, 2 square Max-Hyam, 57748 Paris 15, France

P143 • Frailty increases the incidence of mortality in elderly patients with cardiovascular diseases
A Fábio Shinia Ingham, Fabiola Martín, Jairo Borges, Antônio Carlos Carvalho Federal University of Sao Paulo (Brazil)

P144 • Associations between domestic violence through life and frailty: cross-sectional analysis from the imias study
Imiastus Liebig University Giessen, Germany Monika Neuhäuser-Berthold, Justus Liebig University Giessen, Germany

P145 • Seeking for explanations for frailty incidence: the international mobility in aging study
Imiastus Liebig University Giessen, Germany Monika Neuhäuser-Berthold, Justus Liebig University Giessen, Germany

P146 • Longitudinal associations between abdominal obesity and mobility disability in older adults: 4-years follow up of the international mobility aging study
Imiastus Liebig University Giessen, Germany Monika Neuhäuser-Berthold, Justus Liebig University Giessen, Germany

P147 • Association between frailty and aspects of perceived oral health in brazilian elderly
Sandra M. Ribeiro PhD,1, Jovina G. Bento BSc, Bruna Gusmão BSc, Monica S. Yassuda PhD, Samia Balbó PhD, Meire Cachioni PhD, Andrea Lopes PhD, Deusilvina VS Falcão PhD, Anila L. Heri PhD, University of São Paulo (Brazil)

P148 • Genetic determinants of healthy ageing
Kiekkenen MIKG National Institute for Health and Welfare, Helsinki, Finland, Institute for Molecular Medicine Finland, University of Helsinki, Helsinki, Finland Haller Tornans Estonian Genome Center, University of Tartu, Tartu, Estonian Academy of Sciences, Institute of Molecular and Cell Biology, Karolinska Institutet, Stockholm, Sweden.

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P183 • Osteoporosis, self-rated health, and activity of daily living skills of older adults attending congratee meal sites
Edgar R. Vieira, Joan A. Vaccaro, Gustavo G. Zarini, and Fatma G. Huffman (1) Department of Physical Therapy, Florida State University, Tallahassee, FL, USA
(2) Department of Dietetics and Nutrition, Florida International University, Miami, FL, USA

P184 • Mutual associations among frailty, sarcopenia and osteoporosis: Four-year observations between the second and third ROAD study surveys
Noriko Yoshimura, Shigeyuki Morikita, Hiroki Okazaki, Yoshiki Ito, Ikko Kiyosawa, Hiroshi Kawasaki, Kosuke Nakamura, Toru Akihara, Sake Tanaka (1) Department of Prevention Medicine for the Elderly, Komazawa University, Tokyo, Japan (2) Department of Century Medical Research Center, The University of Tokyo, Tokyo 113-8655, Japan (3) Department of Orthopedic Surgery, Sensory and Motor System Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo 113-8655, Japan (4) JCHO Tokyo Shinkuji Medical Center, Tokyo 162-8542, Japan (5) National Rehabilitation Center for Persons with Disabilities, Saitama 359-0042, Japan

P185 • Walking steps correlated with bone mineral density at the femoral neck independently of muscle function in postmenopausal Japanese women
Tatsuya Sato, M D, PhD (1), Masahiro Matsumoto, Yuki Yamada, Junko Yamaki, MD, PhD (2), Katsuyuki Kouda, MD, PhD (2), Yo-ku Sato, PhD (3), Enuko Kajita PhD, MD, PhD (4), Sadanobu Kagaami, MD, PhD (5) JSPP (Japan Society of Physical Therapy) (Japan)

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P186 • Risk factors of sarcopenia in Ukrainian postmenopausal women
Vladyslav Pavlovsky, Natalia Dzerovskaya, Rakhilova Povoroznyk, D.F. Chebrotayev Institute of gerontology NAMS Ukraine, Kyiv (Ukraine)

P187 • Influence of grip strength, physical activity, and dietary protein intake on muscle strength and cross-sectional area in middle-aged women
Christopher J. Kotansky, MS, CCSI, Karla A. Stone, MS, CCSI, Rachel Ivenson, MS1, Winnona Byun, PhD2, Kyle J Hackney, PhD2, CSCS1, and Sherri N. Hastrety, PhD2, RD2, CSSD (1) North Dakota State University, Fargo, ND, USA (2) University of Utah, Salt Lake City, UT, USA

P188 • Changes in Plasma Levels of Nitrotyrosine and Monocyte Chemoattractant Protein-1 Levels after Etanercept Therapy in Rheumatoid Arthritis
Chen Yang, Yang-Ming University School of Medicine Taiwan (Taiwan)

P189 • Screening tool for sarcopenia in older people: A biospectroscopic approach
Ricardo Oliveira Guerra (1), Mariana Souza Barrosa (2), Diogo Cunha Soares (3), Ana Maria Tavares Monteiro (4), and Leandro Aparecido (5) (1) University of Campinas, São Paulo, Brazil (2) University of São Paulo, Brazil (3) University of São Paulo, Brazil (4) University of São Paulo, Brazil (5) University of São Paulo, Brazil

P190 • A new CT based approach to muscle and adipose tissue of paraspinous muscle
Klaus Ehrig, Institute of Medical Physics, University of Erlangen-Nürnberg, Germany (2) Daniel Günzel, Institute of Medical Physics, University of Erlangen-Nürnberg, Germany (3) Jean-Denis Laredo, ZAP-HF, Radiologie Ostéo-Articulaire, Hôpital Larpizoule, Université Paris Diderot, Paris, France (4) Andreas Meier, Institute of Medical Physics, University of Erlangen-Nürnberg, Germany

P191 • OMC signatures in risk of frailty: a meta-analysis of nested case-control studies from the FRAILOMIC Initiative
S. Walter, I. E. van der Meulen, O. L. Koster, and M. J. P. Boomsma (1) Department of Public Health, VU University Medical Center, Amsterdam, The Netherlands (2) Department of Internal Medicine, University Medical Center Utrecht, Utrecht, The Netherlands (3) Department of Public Health, VU University Medical Center, Amsterdam, The Netherlands

P192 • Bioimpedance in Heart Failure: Systematic Review of Current Evidence
Eric Carelli (1), Melissa Bendayan (2,3), Alexandre O'Bryan (3), Louis Muller (1), and Pierre Allard (1,2,3,4) (1) Department of Medicine, McGill University, Montreal, Quebec, Canada; (2) Division of Cardiology, McGill University, Montreal, Quebec, Canada; (3) Centre for Clinical Epidemiology, Jewish General Hospital, McGill University, Montreal, Quebec, Canada; (4) Division of Cardiology, McGill University, Montreal, Quebec, Canada

OSTEOPOROSIS & SARCOPEANIA

P195 • Relationships between muscle mass, strength and bone mineral density in young men
TSu Hj. Toun, H. A. Valery, R. H. A. Pain, E. Lespesalas - ISMTO laboratory (France)

P196 • Cognitive and Psychosocial Factors Associated with Reduced Muscle Mass, Strength, and Function in Residential Care Apartment Residents
Vladyslav Pavlovsky, MD, PhD (1), Marya Mysak, MD (2), C. S. C. C. R. O. C. K. O. Clinical Research Program, University of Wisconsin - Madison Christine R. Kovach, PhD, RN, FAAN, FGSA, College of Nursing, University of Wisconsin-Milwaukee Booj Buehling, MD, Assistant Professor of Medicine, Division of Geriatrics and Gerontology/Osteoporosis Clinical Research Program, University of Wisconsin - Madison (USA)

P197 • Association between FRAX and sarcopenia in community-dwelling elderly in Japan
Hajime Niiya, MD, PhD (1), Tomozaki Fuyaga, SC, Ichita Iida, MD, Yoshinaka Miyakado, MD, Kenji Fujii, MD, Sauke Susuki, MD, Nobuya Yamashita, MD, PhD, Kurotsuchi, Fukuoka Kasuga Rehabilitation Clinic (Japan)

P198 • The mortality determinants of sarcopenia, MMSE and co-morbidities in hospitalized geriatric patients
Scott Lamers, 1, Robin Degerickz, 1 Stany Perkins, 1 School of Medicine, University of Antwerp, Antwerp 2610, Belgium (2) University Centre for Geriatrics, ZNA (Ziekenhuis Netwerk Antwerpen), Antwerp, Belgium (2000, Belgium)

P200 • Muscle mass and intramuscular adipose tissue as predictors of 4-year mortality risk
Vladislav Pavlovsky, D.F. Chebrotayev Institute of gerontology NAMS Ukraine, Kyiv (Ukraine)

P201 • Body Comp.a.i: to toward automatic segmented computed tomography body composition quantification in clinical practice
Romain Modrezvinski - Henri Bequerel center, Department of Nuclear Medicine, 76000 Rouen, France. Clement Chatelain - Normalie Univers, UNIROUEN, UNIHAVRE, INSA Rouen, LIETS, 76000 Rouen, France Romain Herault - Normalie Univers, UNIROUEN, UNIHAVRE, INSA Rouen, LIETS, 76000 Rouen, France Fabrice Jardin - Henri Bequerel center, Department of Haematology, 76000 Rouen, France. Sebastien Thuereau - Normalie Univers, UNIROUEN, UNIHAVRE, INSA Rouen, LIETS, 76000 Rouen, France

P202 • Semi-Automated Segmentation of Psoas Muscle Area in Older Adults Undergoing Aortic Valve Replacement
Wayne Lo, MD, MC, Center for Clinical Epidemiology, Lady Davis Institute, McGill University, Montreal, QC, Canada. Samuel Mamane - Department of Medicine, McGill University, Montreal, QC, Canada. Louis Muller - Department of Medicine, McGill University, Montreal, QC, Canada. Matthew Aslade - Faculty of Medicine, McGill University, QC, Montreal, QC. Amanda Trzuskowska - Centre for Clinical Epidemiology, Lady Davis Institute, Jewish General Hospital, McGill University, Montreal, QC, Canada. Jose Morais - Division of Geriatric Medicine, McGill University, Montreal, QC, Canada. Giuseppe Martinucci - Division of Cardiology, McGill University, Montreal, QC, Canada. Nicolo Piazza - Division of Cardiology, McGill University, Montreal, QC, Canada. Jonathan Allafia - Division of Cardiology, McGill University, Montreal, QC, Canada

P203 • Muscle mass and intramuscular adipose tissue as predictors of 4-year mortality risk
Vladislav Pavlovsky, 1,2,3, Scott Lamers², Robin Degerickz, 1, Stany Perkins, 1 School of Medicine, University of Antwerp, Antwerp 2610, Belgium (2) University Centre for Geriatrics, ZNA (Ziekenhuis Netwerk Antwerpen), Antwerp, Belgium (2000, Belgium)

P204 • Potential Factors Involved in Delayed Osteoporotic Fracture Sarcopenia in the Presence of Sarcopenia: Interventional Study of the Efficacy of Low-Magnitude High-Frequency Vibration
Nico Zhang PhD1, Kuo-sui Leung MD1, Simon Kwok-ho Chow PHD1, Wing-ho Cheung PhD1 (1) Department of Orthopaedics and Traumatology, Faculty of Medicine, the Chinese University of Hong Kong, Hong Kong

P205 • Gender-specific Risk Factors Progression in Community-Dwelling Older Adults
Tar Laser, MBBS1, Leung Bernard, PhD2, Noor Hafizah, MBBS3, 4, Yeo Audrey, BSc3, 5, Yew Suzanne, BSN3, Lim Wei Shing, MBBS3, 5 Department of General Medicine (Geriatric Medicine), Serangoon General Hospital, Singapore. Department of Rheumatology, Allergy and Immunology, Tan Tock Seng Hospital, Singapore (2) Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital. Singapore (3) Department of Internal Medicine, St. John’s Medical College, Singapore (4) Department of General Medicine, Tan Tock Seng Hospital. Singapore (5) Department of General Medicine, Tan Tock Seng Hospital. Singapore

P206 • Aging, Severe Sarcopenia with Metabolic Syndrome in Home Care
Yeonie Sury Haendel1, Y. Tada Yurama2, Nelly Tira Wijay1, 3, 4, 5, Department of Public Health & Nutrition, Faculty of Medicine, Atma Jaya Catholic University of Indonesia, Jl. Pliu Raya No. 2, North Jakarta, Jakarta 14400, Indonesia (2) Department of Nutrition, Faculty of Medicine, Atma Jaya Catholic University of Indonesia, Jl. Pliu Raya No. 2, North Jakarta, Jakarta 14400, Indonesia (3) Centre of Health Research, Faculty of Medicine, Atma Jaya Catholic University of Indonesia, Jl. Pliu Raya No. 2, North Jakarta 14400, Indonesia

P207 • 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
Bing Cheung1,2 (1) St Vincent’s Hospital Melbourne Australia (2) Flinders University Institute of Neuroscience and Mental Health, Melbourne Australia, Michelle Proctor (St Vincent’s Hospital Melbourne Australia) (3) Department of Diabetes, St Vincent’s Hospital Melbourne Australia, David Murphy (St Vincent’s Hospital Melbourne Australia), Richard J MacLaur
(St Vincent’s Hospital Melbourne Australia), Elfi E Kicken (University of Melbourne, Australia)

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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)

E Antoun1,2, E Migliavacca1, E Garret1, SJ Barton3, P Ticonombe3, I Westbury3, A Chappagrow2, A Baczyńska4, R Dodds1, HC Roberts4,5, AA Sayer4,6,7, S Shaw3, A Sheppard8, C McFarlane9, N Karnani10, T Descombes2, C Cooper1,3, KM Godfrey1,3,5, JN Feige2, HP Patel1,3,4,5,9, KA Lillycrop1,11 ¶ and the EpiGen-MEMOSA Study Group ¶ Joint first authors, ¶ Joint senior authors

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

Rachel B. Deer1, Katie A. O’Brien1, Shawn Goodlett1, Leyla Akhverdiyeva1, Elena Volpi1 (1) University of Texas Medical Branch, Galveston, TX, USA

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 Measures in Obese, Middle-Aged and Older Appalachian Males

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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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