

FINAL 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

Final Program • Thursday, March 1

9:00/9:30am

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)

9:30/10:00am

KEYNOTE 1: Moderator: Bruno Vellas (Toulouse, France)

Frailty: What's been done and what needs doing

Linda Fried Columbia University New York, NY, USA

10:00/10:30am

KEYNOTE 2: Moderator: Roger Fielding (Boston, USA)

Muscle cell regenerative capacity and aging

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

10:30-11:00am

COFFEE BREAK

BALLROOM 1 • FRAILTY

11:00/12:00am

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, USA

- 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

12:00/12:30am

KEYNOTE 3: Moderator: Bruno Vellas (Toulouse, France)

Stems cells for frailty : rational, biological and clinical impact

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

12:30/1:30pm

LUNCH BREAK

1:30/ 2:30pm

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

2:30/3:30pm

ORAL COMMUNICATIONS

Moderators: Davide L Vetrano (Stockholm, Sweden), Todd M Manini (Gainesville, USA)

2:30pm

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

2:45pm

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)

3:00pm **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-Mañas, 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

3:15pm **OC 4: 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

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

4:00/5:00pm **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 (Switzerland)

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

5:00/6:00pm **INDUSTRY SYMPOSIUM** (see p23) Followed by a cocktail with light snacks

BALLROOM 2 • SARCOPENIA

11:00/12:00am **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 am **ORAL COMMUNICATIONS**

Moderators: Samuel Mamane (Montreal, Canada) - Charlotte A. Peterson (Lexington, USA)

12:00am **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

12:15am **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 Colacone (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

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

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

Moderators: Yves Rolland (Toulouse, France) - Kate Duchowny (Ann Arbor, MI USA)

1:30pm **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 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

- 1:45pm **OC 8: 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
- 2:00pm **OC 9: 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
- 2:15pm **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.
- 2:30pm **OC 11: 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
- 2:45pm **OC 12: 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 (BIOSE), CNRS, 75005 Paris, France. *Pierre Dilda*, Biophytis, UPMC, BC9, 4 place Jussieu, 75005 Paris, France
- 3:00pm **OC 13: 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
- 3:15pm **OC 14: 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
- 3:30/4:00pm **COFFEE BREAK**
- 4:00/5:00pm **ORAL COMMUNICATIONS**
 Moderators: *Denise K. Houston* (Winston Salem, USA), *Hidenori Arai* (Kyoto, Japan)
- 4:00pm **OC 15: 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
- 4:15pm **OC 16: 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
- 4:30pm **OC 17: 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
- 4:45pm **OC 18: 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

- 9:00/9:30am **KEYNOTE 4:** Moderator: Roger Fielding (Boston, USA)
Myostatin and other biomarkers of sarcopenia
 Nathan Lebrasseur Mayo Clinic Rochester, NY USA
- 9:30/10:00am **KEYNOTE 5:** Moderator: Bruno Vellas (Toulouse, France)
Nutrition, sarcopenia and frailty
 Cornel Sieber F. Alexander-University (Nuremberg, Germany)
- 10:00/10:30am **CONFERENCES**
 Moderator : Francesco Landi (Rome, Italy)
- 10:00am **CONFERENCE 1**
SPRINTT clinical trial update
 Emanuele Marzetti, MD, PhD - Teaching Hospital "Agostino Gemelli", (Rome, Italy)
- 10:15am **CONFERENCE 2**
Insight into the intersection between sarcopenia and frailty: relationship between muscle mass and frailty status
 Paulo H. M. Chaves, MD, PhD1, Benjamin Leon Center for Geriatrics Research and Education, Hebert Wertheim College of Medicine, Florida International University (Miami, USA)
- 10:30-11:00am **COFFEE BREAK**
- 11:00/ 12:00am **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
- 12:00/12:30am **Keynote 6:** Moderator: Roger Fielding (Boston, USA)
Neuromuscular changes with aging and sarcopenia
 Brian Clark, Ohio University (Athens,USA)
- 12:30/1:30pm **LUNCH BREAK**
- 1:30/ 2:30pm **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 Lifecourse 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
- 2:30/3:30pm **CONFERENCES**
 Moderator: Jorge Ruiz (Miami, USA)
- 2:30pm **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
- 2:45pm **CONFERENCE 4**
Sarcopenia and frailty guidelines update in Asia
 Hidenori Arai, National Center for Geriatrics and Gerontology, Japan
- 3:00pm **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

3:15pm **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

3:30/4:00pm

COFFEE BREAK

4:00/5:00pm

ORAL COMMUNICATIONS

Moderators: Bertrand Fougère (Toulouse, France), Megan M. Marron (Pittsburgh,, USA)

4:00pm **OC 19: Relationship of incident falls with balance deficits and body composition in male and female community-dwelling elders**

Waters DL1, Qualls CR2, Cesari M3,4, Rolland Y5, Vellas B5,6 1. Department of Medicine and School of Physiotherapy, University of Otago, Dunedin, New Zealand. 2. Department of Mathematics & Statistics and School of Medicine, University of New Mexico, Albuquerque, USA; and Biomedical Research Institute of New Mexico, Albuquerque, USA. 3. Fondazione Ca Granda Ospedale Maggiore Policlinico, Milan, Italy. 4. Department of Clinical and Community Sciences, University of Milan, Italy. 5. Centre Hospitalier Universitaire de Toulouse, Toulouse, France. 6. Department of Internal and Geriatrics Medicine, Gerontopole, CHU de Toulouse, UMR 1027 INSERM, University Toulouse III, Toulouse, France.

4:15pm

OC 20: JNK regulates muscle hypertrophy via Myostatin/SMAD inhibition

Sarah Lessard1, Joslin Diabetes Center Tara MacDonald, Joslin Diabetes Center Prerana Pathak, Joslin Diabetes Center Myoung Sook Han, University of Massachusetts Medical School Vernon Coffey, Bond University Donato Rivas, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University Michael Hirshman, Joslin Diabetes Center Roger Davis, University of Massachusetts Medical School Laurie Goodyear, Joslin Diabetes Center (USA)

4:30pm

OC 21:Metabolomics of frailty severity among black men in the Health ABC study

Megan M. Marron, MS1, Rachel A. Murphy, PhD2, Tamara B. Harris, MD3, Stacy G. Wendell, PhD4, Robert Boudreau, PhD1, Anne B. Newman, MD1,4 -(1) Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA. (2) Centre of Excellence in Cancer Prevention, School of Population and Public Health, University of British Columbia, Vancouver, Canada. (3) Laboratory of Epidemiology and Population Sciences, Intramural Research Program, National Institute on Aging, Bethesda, MD. (4) Departments of Medicine and Clinical and Translational Science, University of Pittsburgh, Pittsburgh, PA (USA)

4:45pm

OC 22:Approaches to assessment of sarcopenia on Computed Tomography (CT): a systematic review

Behrang Amini, (The University of Texas M.D. Anderson Cancer Center) Sean P. Boyle (University of California, Davis) Robert D. Boutin (University of California, Davis) Leon Lenchik (Wake Forest School of Medicine) - (USA)

5:00/6:00pm

INDUSTRY SYMPOSIUM (see p23) Followed by a cocktail with light snacks

BALLROOM 2 • FRAILTY

9:00/10:00am

CONFERENCES

Moderator: Elsa Dent (Adelaide, Australia)

9:00am

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

9:15am

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.

9:30am

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

9:45am

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

10:00/10:30am

ORAL COMMUNICATIONS

Moderators: Amal A. Wanigatunga (Baltimore, USA), Lorenzo Donini (Rome, Italy)

10:00am

OC 23: 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

10:15am

OC 24: 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

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

11:00/12:00am **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

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

Moderators: Leocadio Rodriguez-Mañas (Madrid, Spain), Manuel Montero-Odasso (London, Canada)

12:00am **OC 25: Identifying frailty using the electronic medical record within a medicare accountable care organization**

Nicholas M. Pawajski, 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)

12:15am **OC 26: 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)*

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

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

Moderators: Bertrand Fougère (Toulouse, France), Aluko A. Hope (New York, USA)

1:30pm **OC 27: 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,

1:45pm **OC 28: 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

2:00pm **OC 29: 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

2:15pm **OC 30: 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

2:30pm **OC 31: MiRNAs and procollagen type III N-terminal peptide (P3NP) in Elderly**

Del Panta 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

2:45pm **OC 32: 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

3:00pm **OC 33: Microbiota and metabolic danger sensing contribute to sarcopenia**

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

3:15pm **OC 34: 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

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

4:00/5:00pm **ORAL COMMUNICATIONS**

Moderators: Jean-Pierre Michel (Geneva, Switzerland), Jack Guralnik (USA)

4:00pm **OC 35: Geroprotectors for multimorbidity and frailty: roadmap to clinical translation**

Anne Ulrike Trendelenburg Novartis Institutes for Biomedical Research Cambridge MA USA

4:15pm **OC 36: A novel app for assessing the individual's functions and intrinsic capacity**

JP Michel French Academy of Medicine Switzerland Geneva

4:30pm **OC 37: 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

4:45pm **OC 38: 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)

- 9:00/9:30am **CONFERENCES**
Moderator: Dennis Villareal (Houston, USA)
- 9:00am **CONFERENCE 11**
New healthy ageing framework: updates from the WHO clinical consortium on healthy aging
Islene Araujo de Carvalho (Geneva, Switzerland)
- 9:15am **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
- 9:30am **CONFERENCE 13**
Nutrition and joint health: current and future
Chwan-Li (Leslie) Shen, PhD, 1 Jia Zhang, PhD. 2
1 CCRP, Texas Tech University Health Sciences Center, Lubbock, TX - 2Texas Tech University, Lubbock, TX.
- 9:45/10:30am **ORAL COMMUNICATIONS**
Moderators: Juergen Bauer (Oldenburg, Germany) - Janet E. Simon (Athens, USA)
- 9:45am **OC 39: Small-molecule approaches to attenuate the E3 ligase MuRF1 and skeletal muscle atrophy and dysfunction**
Siegfried Labeit University of Heidelberg, Germany Scott Bowen, University of Leeds, UK Lee H. Sweeney, University of Florida, USA Volker Adams, TU Dresden (Germany)
- 10:00am **OC 40: Relationship between patient-reported outcome measures and leg extensor muscle weakness in older adults**
Janet E. Simon PhD,1,2, Todd M. Manini PhD,3, Anoop Balachandran PhD,3, Leatha A. Clark DPT MS,1,4,5, Simon Moskowitz 1, Brian C. Clark PhD,1,4,6 - (1) Ohio Musculoskeletal and Neurological Institute, Ohio University, Athens OH, USA (2) School of Applied Health Sciences and Wellness, Ohio University, Athens, OH, USA (3) Institute on Aging and the Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA (4) Department of Biomedical Sciences, Ohio University, Athens, OH, USA (5) Department of Family Medicine, Ohio University, Athens, OH, USA (6) Department of Geriatric Medicine, Ohio University, Athens, OH, USA)
- 10:15am **OC 41: Higher expression of miR-19b-3p associated with increased fat-free mass following 6 months of resistance exercise in older men and women**
Donato A Rivas USDA Human Nutrition Research Center on Aging at Tufts University Roger A. Fielding, USDA Human Nutrition Research Center on Aging at Tufts University Lee M. Margolis, USDA Human Nutrition Research Center on Aging at Tufts University (USA)
- 10:30-11:00am **COFFEE BREAK**
- 11:00/12:00am **SYMPOSIUM 8 - IANA**
Nutrition, Frailty and Sarcopenia *Moderator: Debra Waters (USA)*
- **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
- 12:00/12:30am **ORAL COMMUNICATIONS**
Moderators: Michael Lustgarten (Boston USA) - Liang-Kung Chen (Taipei, Taiwan)
- 12:00am **OC 42: 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
- 12:15am **OC 43: 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 WashingtonSt. Boston Ma USA
- 12:30/1:30pm **LUNCH BREAK**

BALLROOM 2 SARCOPENIA

- 9:00/10:30am **ORAL COMMUNICATIONS**
Moderators: Mylène Aubertin-Leheudre (Montréal, Canada) - (Boston USA) - Adam J. Santanasto (Pittsburgh, USA)
- 9:00am **OC 44: 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
- 9:15am **OC 45: 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
- 9:30am **OC 46: The diagnostic significance of pQCT and DXA in geriatric patients**
Michael Drey, MD, MSc¹, Michaela Henkel¹, Sophie Petermeise¹, Uta Ferrari MD¹, Marietta Rottenkolber¹, Ralf Schmidmaier MD, MME^{1,2} ⁽¹⁾Geriatric Department, Klinikum der Universität München, Munich, Germany ⁽²⁾Endocrinological Department, Klinikum der Universität München, Munich, (Germany)
- 9:45am **OC 47: 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 Bonadiaz 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.
- 10:00am **OC 48: 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
- 10:15am **OC 49: 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, PhD^{1,4}* ⁽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
- 10:30-11:00am **COFFEE BREAK**
- 11:00/12:30am **ORAL COMMUNICATIONS**
Moderators: Paulo Chaves (Miami, USA) - Kevin Conley (Seattle, USA)
- 11:00am **OC 50: Co-application of LMHFV and HMB retards sarcopenia by reducing intramyocellular fat infiltration in sarcopenic mice**
Wang J¹, Chow SKH¹, Wong RMY¹, Chim YN¹, Leung KS¹, Cheung WH¹ ¹ Department of Orthopaedics and Traumatology, Faculty of Medicine, the Chinese University of Hong Kong, Hong Kong
- 11:15am **OC 51: 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 Biophysit Paris, France
- 11:30am **OC 52: 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-PhD^{3,4} 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
- 11:45am **OC 53: 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
- 12:00am **OC 54: 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
- 12:15am **OC 55: 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.

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

PLENARY SESSION

1:30/2:30pm

Symposium 9

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

2:30/3:45pm

ORAL COMMUNICATIONS

Moderators: *Miriam Zylberglait Lisigurski (Miami, USA) - Marco Narici (Padova, Italy)*

- 2:30pm **OC 56: 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

- 2:45pm **OC 57: Health care utilization in non-geriatric patients with frailty phenotype**

Miriam Zylberglait 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

- 3:00pm **OC 58: 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

- 3:15pm **OC 59: 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

- 3:30pm **OC 60: 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 Denkinger 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 BS1, 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

Talluri E1, Del Panta V1, 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)

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

Leyva N, Paredes C, Vargas F, Tello J, Ortiz P, 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, Natíelen 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. Stock, PhD1, Morgan Whitson, MS2, Adam M. Burton, BS1, Nicole T. Dawson, PT, PhD, GC3, 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 Parana. Curitiba. Parana. Brazil. 2 PhD Student in Physical Education, Federal University of Parana. Curitiba. Parana. Brazil. Nutrition undergraduate Course, Centro Universitário Autônomo do Brasil (UNIBRASIL). Curitiba. Parana. Brazil. 3Master Student in Physical Education, Federal University of Parana. Curitiba. Parana. Brazil. 4 Physiotherapy undergraduate. Federal University of Parana. Curitiba. Parana. Brazil. 5Master in Food and Nutrition Program, Department of Nutrition, Federal University of Parana, Curitiba. Parana. Brazil 6 Department of Internal Medicine, Federal University of Parana. Curitiba. Parana. Brazil. 7Master and PhD Programs in Physical Education. Prevention and Rehabilitation in Physiotherapy Department, Federal University of Parana. Curitiba. Parana. (Brazil)

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

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

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

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P17 • Inflammatory frailty index and mortality after kidney transplantation

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

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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, PHD123, 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 • Anthropometric measurements, number of comorbidities and medications in use in Brazilian elderly women at risk of sarcopenia

Patrícia Parreira Batista, MSc; Patrícia 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)

P22 • Association between dynapenia and subsequent serious fall injuries in older adults

Anoop Balachandran, PhD1, Boya Lin, MS1, Thomas M. Gill, MD2, Jack M. Guralnik, MD, PhD3, Abby C King PhD4, Fang-Chi Hsu PhD5, Anne B. Newman, MD, MPH6, Mary M. McDermott, MD7, Roger A. Fielding, PhD8, Todd Manini, PhD1 (1) Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA (2) Department of Medicine, Yale School of Medicine, New Haven, CT, USA (3) Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD, USA (4) Departments of Health Research & Policy and Medicine, Stanford School of Medicine, Stanford, CA, USA (5) Department of Biostatistical Sciences, Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA (6) Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA, USA (7) Departments of Medicine and Preventive Medicine, Northwestern University, Feinberg School of Medicine, Chicago, IL, USA (8) Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University, Boston, MA, (USA)

P23 • Myofascial force transmission and muscle weakness in old age

marco narici, Robert Csapo, Usha Sinha, Shantanu Sinha - University of Padova (Italy)

P24 • Body profile and functional capacity in healthy free living women of the city of Córdoba, Argentina

Asaduroglu AV, Cosianzi J; Sobh VB; Rossel S; Gallerano RH - Cordoba (Argentina)

COGNITIVE FRAILTY

P25 • Prevalence and related factors of cognitive frailty in China

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P26 • 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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P27 • Association between frailty and cognitive impairment: cross-sectional data from Toulouse frailty day hospital

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P28 • 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)

P29 • 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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P30 • 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

P31 • Oropharyngeal dysphagia and fragility: can it be related?

Gulistan Bahat (1), Ozlem Yilmaz(1), Sukran Durmazoglu(1), Cihan Kilia(1), Basar Aykent(2), Mehmet Akif Karan(1) Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division Marmara University Medical Faculty Internal Medicine Department Nephrology Division (Turkey)

P32 • Effects of an intergenerational exchange program between nursing students and community healthy elderly

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

P33 • Association of frailty with recovery from disability among community-dwelling older adults: results from two large U.S. cohorts

Chenkai Wu, New York Medical College (USA)

P34 • Longitudinal relationship between knee pain status and incident frailty: data from the osteoarthritis initiative

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P35 • Self-rated health and frailty: cross-sectional and longitudinal relationships in older adults from the three-city Bordeaux study

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P36 • 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)

P37 • 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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P38 • Hand Grip Strength as a measure of Physical Frailty of Patients in a Subacute Geriatric Inpatient Setting in Singapore

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P39 • Disease activity and functional capacity influence frailty in rheumatoid arthritis patients

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P40 • 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 Rodriguez-Mañas MD PhD (5), Jeremy D. Walston MD (2), Dory 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.

P41 • Frailty and risk of adverse drug reactions among hospitalized older adults.

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P42 • Development of a sustainable program for frailty identification and intervention through nutrition and exercise (FINE) in eastern singapore

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P43 • Prevalence of frailty and prescription of anticoagulation in older adults with atrial fibrillation

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P44 • 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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P45 • Activities professionals play critical roles in long-term care

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P46 • Sarcopenia, but not Frailty, predicts falls in well older adults with pre-diabetes and diabetes

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P47 • 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)

P48 • Older persons in assisted living facilities: a target population for preventive interventions to delay dependency

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P49 • Evaluation of the responsiveness of the SarQoL® questionnaire: results from the SarcoPhAge study

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

P50 • 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)

P51 • 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)

P52 • Is frailty associated with adverse events after total joint arthroplasty?

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P53 • Frailty as a risk of falls among community dwelling brazilian older adults

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P54 • 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)

P55 • The postal version of the FRAIL scale: a comparison with the INTER-FRAIL postal questionnaire

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P56 • Coexisting frailty and depression in older veterans: outpatient care, emergency room and hospital utilization

Sruthi Nellur1, 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)

P57 • The interaction of frailty and sarcopenia in advanced epithelial ovarian cancer patients undergoing primary debulking surgery

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P58 • The care assessment need (CAN) score as a screening for frailty

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P59 • Association between PTSD and the frailty syndrome in older veterans

Sruthi Nellur1, 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)

P60 • Relation between frailty criteria and quality of life in pre-frail community-dwelling older women

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P61 • Association of diabetes mellitus with frailty phenotype and sarcopenia in young, middle aged and older adults

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

P62 • Characteristics of the frailty phenotype on young, middle-aged, and older adults. A single center experience

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P63 • 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; Álvaro Campos Cavalcanti Maciel, PT, PhD-UFRN Universidade federal do rio grande do norte (ufrn) (Brazil)

P64 • 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)

P65 • 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)

P66 • A Comparison of frailty criteria in hispanic/Latino and non-hispanic/Latino older adults in south Florida

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P67 • 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)

P68 • 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)

P69 • Frailty is an predictor of cognitive impairment: evidence from toledo study for healthy aging

Cristina Rosado-Artalejo, MDa, Jose Antonio Carnicero PhD b, Jose Losa-Reyna PhDa, Beatriz Cobos Antoranz MDa, Ana Alfaro-Acha PhD, MDa, Carmen Castillo-Gallego PhD, MDa, Leocadio Rodríguez-Mañas PhD, MDc, Francisco José García-García PhD, MDa Hospital Virgen del Valle, Complejo Hospitalario de Toledo (Spain)

P70 • Effects of two different physical exercise-based strategies to treat frailty

Iván Baltasar-Fernández, Ana Alfaro-Acha, MD, PhD2,3, María Isabel Uceta-Espinosa2, Roberto Navarro-Cruz1, Carlos Rodríguez-López1, Francisco José García-García, MD, PhD2,3, Luis Alegre-Durán, PhD1,3, José Losa-Reyna, PhD1,2,3 (1) GENUD (Growth, 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)

P71 • 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)

P72 • 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)

P73 • Frailty and adverse quality of life among persons aging with HIV in Barbados

Damani A. Piggott (1), Anton Best (2), T. Alafia Samuels (3), R. Clive Landis (4), Gregory D. Kirk (1) 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)

P74 • Frailty status and advance directives

Alejandro A. Robles-Torres1, Shivani Priyadarshni2, Michael J. Mintzer2,3, Stuti Dang2,4, Willy Marcos Valencia2,4, and Jorge G. Ruiz2,4 1 Jackson Memorial Hospital, Miami, Florida, USA 2 Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE), Miami, Florida, USA 3 FIU Herbert Wertheim College of Medicine, Miami, Florida, USA 4 University of Miami Miller School of Medicine, Miami, Florida, (USA)

P75 • Predictive validity of the Brazilian version of the rapid geriatric assessment

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

P76 • 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); Sílvia Matumoto (2) 1- Department of Gerontology, Federal University of São Carlos, Brazil. 2- Nursing School of Ribeirão Preto - University of São Paulo, (Brazil)

P77 • Comparison of frailty criteria items (fried phenotype and FRAIL scale) in elderly patients admitted into high Risk clinical setting; FRAILCLINIC PROJECT*

M Checa (MD, PhD), JA Camicero (PhD), M. Oviedo (MD), A. Pardo (MD), J. Gonzales MD, T. Guevara (MD), N. Fernández (MD), L. Rodríguez-Mañas (Prof MD-PhD) Fundación de Investigación Biomédica- Hospital Universitario Getafe (Spain)

P78 • Frailty and malnutrition in fallers

Marta Neira Md, PhD (1), Estefania Arias Md(1), Rafael Bielza Md, PhD(1), Jorge Francisco Gómez Cerezo Md, PhD(1) 1 Hospital Infanta Sofía. Universidad Europea de Madrid. Madrid. (Spain)

P79 • Implementation of an integrated healthy aging clinic to investigate frailty, sarcopenia, and locomotive syndrome in a clinical setting

Yasumoto Matsui Hidenori Arai, Tsuyoshi Watanabe, Shosuke Satake, Kazuyoshi Senda, Izumi Kondo, Kaori Kinoshita, Naoki Ito, Sarui Morita Sabre and Atsushi Harada National Center for Geriatrics and Gerontology, (Japan)

P80 • Importance of frailty recognition and identification in the geriatric patient population: knowledge for future advanced practice nurses.

Kristina Fortes DNP, FNP-BC, ACPNP School of Nursing, California State University Fullerton, Fullerton, CA (USA)

FUNCTIONAL ASSESSMENT

P81 • 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)

Gulistan Bahat (1), *Sevilay Bovatekan*(1) *Yaldaray Topau*(1) *Cihan Kilia*(1) *Birkan alhan*(1) *A Tufan*(2) *Mehmet Akif Karan*(1) 1. Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division 2. Marmara University Medical Faculty Internal Medicine Department Geriatrics Division (Turkey)

P82 • 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), *Sevilay 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)

P83 • 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 Ando* PhD1,2,3, *Madoka Ogawa* MS1,3, *Hisashi Maeda* MS1, *Noriko I. Tanaka* PhD1 (1) Nagoya University, Aichi, Japan (2) Japan Institute of Sports Sciences (3) Japan Society for the Promotion of Science (Japan)

P84 • SARC-F: Defining a validated cutoff for pre-sarcopenia for risk assessment among community dwelling older persons

WS Lim 1,2 L Tay,3 A Yeo,2 S Yew,2 N Hafizah,2,4 YY Ding,1,2 1Department of Geriatric Medicine. Tan Tock Seng Hospital. Singapore 2Institute of Geriatrics and Active Ageing. Tan Tock Seng Hospital. Singapore 3Department of General Medicine (Geriatric Medicine), Sengkang General Hospital. Singapore 4Department of Continuing and Community Care. Tan Tock Seng Hospital. (Singapore)

P85 • A new way to illustrate changes in musculoskeletal health using inertial sensors: the T-score

Alexander D. Lee MSK Metrics, Velocity Sports Medicine & Rehabilitation Canada Mississauga Ontario (Canada)

P86 • Predictive validity of a novel comprehensive assessment tool for sarcopenia (sarcopenia scale): A relationship with the incidence of falls

Yosuke Osuka, *Narumi Kojima*, *Ken Fujino*, *Hunhyung Kim* Research Team for Promoting Independence of the Elderly, Tokyo Metropolitan Institute of Gerontology (Japan)

P87 • Simple physical activity index predicts prognosis in older adults

Lina Ma, MD, PhD1, *Zhe Tang*, MD1, *Piu Chan*, MD, PhD1,2 1 Department of Geriatrics, Beijing Geriatric Healthcare Center, Beijing Institute of Geriatrics, Xuanwu Hospital, 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, Capital Medical University, Beijing 100053, (China)

P88 • Relationship cognition functions, physical capability and nutrition of the elderly

Olena Tomarevska, *Oleksandr Poliakov* Institute of Gerontology by D.F. Chebotarev of National Academy of Medical Sciences of Ukraine (Ukraine)

P89 • 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)

P90 • 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 Zippunnikov*, 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 (USA)

P91 • Gender-related effects of a multicomponent exercise program on physical fitness of older adults

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P92 • Physical performance correlation with frailty index in elderly patients

Melissa Hughes MD1, *Ricardo Salinas* MD1, *Gladys Garza* MD1, *Xochitl Ortiz* PhD21. Geriatric Unit, University Hospital ?Dr. Jose Eleuterio Gonzalez? UANL, Monterrey, NL, MX 2. Faculty of Psychology UANL, Monterrey, NL, (Mexico)

P93 • Association of handgrip strength with multimorbidity in community dwelling Chilean older people

Barbara Angel PhD, *Lydia Lera*, PhD, *Carlos Márquez*, *Cecilia Albala* MD. Department of Public Health Nutrition, Institute of Nutrition and Food Technology (INTA), University of Chile (Chile)

P94 • Grip strength in adults with hip fracture compared to ambulatory population

Sagrario Niñez MD1, *Javier Guerra* MD2, *Daniel Gamar* PhD1, *Victor Peña* MD2, *Gonzalez Blanca* MN3, *Juan-Francisco Torres* MD1, *Michelle Leyva* MD1, *Ricardo Serna* MD1, *Ricardo Salinas* MD1. (1) Servicio de Geriatria del Hospital Universitario Dr. José Eleuterio González Monterrey, Nuevo León (2) Servicio de Traumatología y Ortopedia del Hospital Universitario ?Dr. José Eleuterio González Monterrey, Nuevo León. (3) Consulta de Nutrición del Servicio de Endocrinología del Hospital Universitario ?Dr. José Eleuterio González? Monterrey, Nuevo León. (Mexico)

P95 • Functional need and frailty

Sandra Richardson MS, RN; New York State Department of Health, Albany, NY, USA *Brian Bandle*, MPH; New York State Department of Health, Albany, NY, USA *Raina Josberger*, MS; New York State Department of Health, Albany, NY, (USA)

P96 • Peak flow is useful for sarcopenia screening in community-dwelling patients with stable chronic obstructive pulmonary disease

Dolores Sánchez-Rodríguez MD, PhD1; *Jesús López-Escobar*, MD2; *Eva M. Pascual*, PT3; *Xavier Duran*4; *Monique Messaggi-Sartor*, PT, PhD5; *Diego A. Rodríguez*, MD, PhD6; *Anna Guillén-Solà*, MD, PhD7; *Ester Marco*, MD, PhD8 (1) Geriatric Department, Parc de Salut Mar (Centre Fórum-Hospital del Mar). Rehabilitation Research Group, Hospital del Mar Medical Research Institute (IMIM). Universitat Autònoma de Barcelona. Universitat Pompeu Fabra, Barcelona, Catalonia, Spain. (2) Physical Medicine and Rehabilitation Department, Hospital General Universitario de Castellón, Castellón de la Plana, Spain. (3) Physical Medicine and Rehabilitation Department, Parc de Salut Mar (Hospital del Mar-Hospital de l'Esperança). Rehabilitation Research Group, Hospital del Mar Medical Research Institute (IMIM), Barcelona, Catalonia, Spain. (4) Methodological and biostatistical advisory service, Hospital del Mar Medical Research Institute (IMIM), Barcelona, Catalonia, Spain. (5) Physical Medicine and Rehabilitation Department, Parc de Salut Mar (Hospital del Mar-Hospital de l'Esperança). Rehabilitation Research Group, Hospital del Mar Medical Research Institute (IMIM), Barcelona, Catalonia, Spain. (6) Respiratory Diseases Department. Hospital del Mar. School of Medicine, Universitat Autònoma de Barcelona (UAB) and Universitat Pompeu Fabra. Barcelona, Catalonia, Spain. (7) Physical Medicine and Rehabilitation Department, Parc de Salut Mar (Hospital del Mar-Hospital de l'Esperança). Rehabilitation Research Group, Hospital del Mar Medical Research Institute (IMIM). School of Medicine, Universitat Autònoma de Barcelona, Catalonia, Spain. (8) Physical Medicine and Rehabilitation Department, Parc de Salut Mar (Hospital del Mar-Hospital de l'Esperança). Rehabilitation Research Group, Hospital del Mar Medical Research Institute (IMIM). School of Medicine, Universitat Autònoma de Barcelona, Catalonia, Spain)

P97 • Association between anthropometric measures and functional performance in Brazilian elderly women at risk of sarcopenia

Patrícia Parreira Batista, MSc; *Cláudia Venturini*, MSc; *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)

P98 • Body composition and physical performance in middle-aged men and women

F. Baptista, *Vera Zymbal*, *Diana Luís*, *Filomena Carmide Exercise and Health Laboratory*, CIPER, Faculdade de Motricidade Humana, Universidade de Lisboa, (Portugal)- Fundação para a Ciência e Tecnologia (Portuguese Science and Technology Foundation)

P99 • 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)

P100 • 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

P101 • Handgrip strength and functional class how prognostic factors in older patients with heart failure in Colombia. FORCE 2 study

Amaury Alexis Amañes-Vergara, MD [1,3], *Miguel Enrique Ochoa*, MD Msc [2], *Betsy Viviana Rodríguez Hernández* MD [3], *Maria Alejandra Rodríguez Flórez* MD [3], *Carlos Alberto Velandia-Carrillo* MD [1,3], *Miguel Oswaldo Cadena-Sanabria* MD [1,3,4] [1] Department of Geriatrics and Internal Medicine, Clínica FOSCAL, Bucaramanga. Colombia. [2] Grupo de Investigaciones Clínicas, UNAB. [3] Universidad Autónoma de Bucaramanga, UNAB. [4] Universidad Industrial de Santander (UIS)

P102 • Agility versus Muscle Strength and Mass in the Prediction of Physical Functioning In Community-Dwelling Older Men and Women

Alex Lima MSc(1), *Myrian Faber* PhD(2) *Élvio Rúbio Gouveia* PhD(3); *Fátima Baptista* PhD(4) (1) Laboratory of Biosciences of the Human Movement - LABIMH/UFRJ/Brasil, Curso de Educação Física, Universidade do Estado do Amazonas, UEA, Brasil. (2) Curso de Educação Física, Universidade do Estado do Amazonas, UEA, Brasil. (3) Madeira-ITI, LARSYS and University of Madeira, Portugal (4) Exercise and Health Laboratory, CIPER, Faculdade de Motricidade Humana, Universidade de Lisboa, (Portugal)

P103 • Correlates of muscle strength in community-dwelling older adults from Amazonas, Brazil

Élvio Rúbio Gouveia PhD(1), *Alex Lima* MSc (2); *Andreas Ilhe* PhD(3); *Bruna Gouveia* PhD(4); *Myrian Faber* PhD(5); *Duarte Freitas* PhD(6); *Adilson Marques* PhD(7); *Matthias Kliegel*(3); *Fátima Baptista* PhD(8) (1) Laboratório de Biociência do Movimento Humano - LABIMH, UFRJ, Brasil, Curso de Educação Física, Universidade do Estado do Amazonas, UEA, Brasil (2) Madeira-ITI, LARSYS and University of Madeira, Portugal (3) Department of Psychology, Center for the Interdisciplinary Study of Gerontology and Vulnerability, University of Geneva, Geneva, Switzerland. (4) Madeira-ITI - LARSYS; Health Administration Institute, Secretary of Health of the Autonomous Region of Madeira; ESESJCluny, Funchal, Portugal (5) Curso de Educação Física, Universidade do Estado do Amazonas, UEA, Brasil (6) Department of Physical Education and Sport, University of Madeira, Funchal, Portugal (7) Centro Interdisciplinar de Estudo da Performance Humana, Faculdade de Motricidade Humana, Universidade de Lisboa, Lisboa, Portugal (8) Exercise and Health Laboratory, CIPER, Faculdade de Motricidade Humana, Universidade de Lisboa, (Portugal)

PRECLINICAL STUDIES

P104 • The influence of body composition on efficacy of biological treatment with TNF inhibitors in patients with Crohn's disease

Liv H. Kaagaard, Stud Med1, Maria H. Jacobsen, Stud Med1, Mads Hilligsoe, Stud Med1, Niklas D. Eriksen, Stud Med1, Henrik H. Rasmussen, MD, PhD1,2, Lone Larsen MD, Stud PhD2, Lars Vinter-Jensen MD, PhD1,2, Mette Holst, MSc, PhD 1,2 (1)Department of Clinical Medicine, Aalborg University, Aalborg, Denmark (2)Center for Nutrition and Bowel Disease, Dept. of Gastroenterology, Aalborg University Hospital, Aalborg, (Denmark)

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

Alay Nanavati1, Jack Moen1, Jessie Axsom1, Melissa Krawczyk1, Natalia Petrashevskaya1, Max Beyman1, Christopher Ramirez1, Irene Alfaras2, Sarah Mitchell2, Rafael de Cabo2, Edward Lakatta1-1 Laboratory of Cardiovascular Sciences, National Institute on Aging 2 Translation Gerontology Branch, National Institute on Aging (USA)

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

Uan Carlos Galvis rincón - sports medicine physician, fundacion universitaria de ciencias de la Salud Luis Alberto Piragauta ardiola - sports medicine physician, fundacion universitaria de ciencias de la Salud Yelena Velasco - sports medicine physician, fundacion universitaria de ciencias de la salud (Colombia)

CLINICAL TRIALS

P107 • Effects of 3 months multicomponent exercise program on physical function in Nursing Home residents: a randomized controlled trial

Jon Irazusta PhD1, Haritz Arrieta, MSc1, Chloe Rezola, MSc1, Idoia Zarrazuquin PhD2, Iñaki Echeverria MSc1, José Javier Yanguas, PhD3, Miren Iturburu, MSc3, Susana María Gil, PhD1, Ana Rodríguez-Larrad, PhD1. (1) Department of Physiology, Faculty of Medicine and Nursing, University of the Basque Country (UPV/EHU). Leioa (Bizkaia) Spain (2) Department of Nursing I, Faculty of Medicine and Nursing, University of the Basque Country (UPV/EHU). Leioa (Bizkaia) Spain (3) Matia Institute. Fundación Instituto Gerontológico Matia-Ingema. Donostia-San Sebastian (Gipuzkoa) (Spain).

P108 • Exercise Improves or Maintains the cognitive function and physical activity level in Nursing Home residents: a randomized controlled trial

Ana Rodríguez-Larrad, PhD1, Haritz Arrieta, MSc1, Chloe Rezola, MSc1, Susana María Gil, PhD1, Maider Kortajarena, PhD2, José Javier Yanguas, PhD3, Miren Iturburu, MSc3, Javier Gil, PhD1, Jon Irazusta, PhD1. (1) Department of Physiology, Faculty of Medicine and Nursing, University of the Basque Country (UPV/EHU). Barrio Sarriena s/n, E-48940 Leioa (Bizkaia) - Spain (2) Department of Nursing II, Faculty of Medicine and Nursing, University of the Basque Country (UPV/EHU). Paseo Dr. J. Beguiristain 105, E-20014 Donostia - San Sebastian (Gipuzkoa) - Spain (3) Matia Institute. Fundación Instituto Gerontológico Matia-Ingema. Camino de los Pinos 35, E-20018 Donostia-San Sebastian (Gipuzkoa) - (Spain)

P109 • Physical frailty and quality of life - baseline data a large European Multi-Centre Trial (DO-HEALTH)

Michael Gagesch MD1,2, Patricia Chocano-Bedoya MD PhD1,2, John A. Kanis PhD3, Bruno Vellas, MD4, René Rizzoli, MD5,6, Heike A. Bischoff-Ferrari, MD,DrPH1,2 for the DO-HEALTH investigators (1) Department of Geriatrics and Aging Research, University Hospital Zurich and University of Zurich, Zurich, Switzerland (2) Centre on Aging and Mobility, University of Zurich, Zurich, Switzerland (3) Centre for Metabolic Bone Diseases, University of Sheffield, United Kingdom (4) University of Toulouse, Toulouse, France (5) Scientific Advisory Board of the European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis, Liege, Belgium (6) University of Geneva, Geneva, (Switzerland)

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.

Gianluca Zia 1, Lorenzo M Donini2, Waly Dih3, Carole Margalef3, Stanislas Veillet3, Luca Feletti4 and Susanna Del Signore1,3 1 Bluecompanion Ltd, United Kingdom 2 Sapienza University, Rome, Italy 3 Biophysytis, Paris, France 4 Caretek s.r.l., Torino, (Italy)

P111 • The REACHES study: lessons learned from conducting remote assessment within a Nursing Home environment

Marie Mc Carthy 1, Bill Byrom1, Brenda Reginatto2 Susie Donnelly2 Barry Greene3, J. Patrick Bewley4, Willie Muehlhausen1. Oisín Kearns2 (1). ICON PLC, Dublin Ireland (2). ARCH, Dublin, Ireland(3). Kinesis Health Technologies, Dublin, Ireland (4). EVO, Atlanta, Georgia, (USA)

NEW DRUG DEVELOPMENTS

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

P Dilda, 1 Biophysytis, UPMC - BC9, 4 place Jussieu, 75005 Paris, France 2 Sorbonne Universités, UPMC Univ Paris 06, Paris-Seine Biology Institute (BIOSEIPE), CNRS, Paris, (France)

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)

Waly Dih 1, Carole Margalef1, René Lafont2, Philippe Dupont1, Pierre Dilda1, Gianluca Zia3, Stanislas Veillet1 and Susanna Del Signore1,3 1 Biophysytis, Paris, France 2 Sorbonne Universités, UPMC Univ Paris 06, CNRS - Institut de Biologie Paris Seine (BIOSEIPE), Paris, France 3 Bluecompanion Ltd, London, United Kingdom

PHYSICAL EXERCISE

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

Dulac MC1,3, El Hajj Boutros G2,3, Carvalho LP4, Marcangeli V2,3, Gaudreau P5, Gouspillou G2,3, Morais JA3,6, Noirez P2,3,7, et Aubertin-Leheudre M2,3. 1 Department of Biology, 2 Department of Physical Activity Sciences and 3 GRAPA, University of Quebec at Montréal, Montréal, Canada. 4 Department of Physical Therapy, Federal University of Sao Carlos, Sao Carlos, Brazil. 5 Department of Medicine, University of Montréal, Montreal, Canada. 6 Department of Medicine, Division of Geriatric Medicine, McGill University, Montreal, Canada 7 University Paris Descartes, IRMES EA7329, Paris, (France)

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

Livia P. Carvalho PhD1, Maude C. Dulac PhD(c)2, Guy El Hajj Boutros MSc(c)2, Vincent Marcangeli MSc(c)2, Pierrette Gaudreau PhD3,4, José A. Morais MD5, Gilles Gouspillou PhD1, Philippe Noirez PhD6, Mylène Aubertin-Leheudre PhD1. (1) Department of Physical Activity Sciences, Université du Québec at Montréal, Montreal, QC, CA (2) Department of Biology, Université du Québec at Montréal, Montréal, QC, CA (3) Centre Hospitalier de l'Université de Montréal Research Center (4) Department of Medicine, University of Montreal, Montreal, QC, CA (5) Department of Medicine, Division of Geriatric Medicine, McGill University, Montreal, QC, CA (6) Institute for Research in Biomedicine and Epidemiology of Sport, Université Paris Descartes, Paris, (France)

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

Marcangeli V1.2.3. El Hajj-Boutros G1.2.3,Carvalho LP1.2.3, Dulac MD2.3, Pion CH2.3, Belanger M1.2.3, Gouspillou G1.2.3, Gaudreau P4, Chevalier S5, Morais JA5 and Aubertin-Leheudre M1.2.3. (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 and 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

Lenore DedeigneMSc1; Louise Dewinter Msc 1; Aniko Lovik Msc 2; Sabine Verschuere 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

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

Akito Yoshiko MEd1, Takashi Kaji MD, Ph.D.2, Hiroki Sugiyama PT2, Teruhiko Koike MD, Ph.D.1, Yoshiharu Oshida MD,Ph.D.1, Hiroshi Akima Ph.D.1[1] Nagoya University, Nagoya, Japan, [2] Kajinoki Medical Clinic, Gifu, (Japan)

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

Alexei Wong PhD1, Arturo Figueroa, MD, PhD2, Won-Mok Son, PhD3, Song-Young Park, PhD3,4 (1) Marymount University, Arlington, VA, USA (2) Texas Tech University, Lubbock, TX, USA (3) Pusan National University, Busan, Republic of Korea (4) University of Nebraska-Omaha, Omaha, NE, (USA)

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, Karinna 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 da Performance Neuromuscular (LAPERIN), 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

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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

Monica C. Serra, PhD1, Charlene E. Hafer-Macko, MD2, Carolyn Jonas Accardi, PhD3, Chunyu Ma, MS3, Vilinh Tran, MS3, Dean P. Jones, PhD3, Alice S. Ryan, PhD2 (1) Atlanta VA Center of Excellence for Visual and Neurocognitive Rehabilitation, Birmingham/Atlanta VA Geriatric Research Education and Clinical Center (GRECC), and the Division of General Medicine and Geriatrics, Emory University School of Medicine, Atlanta, GA, USA (2) Baltimore VA GRECC, VA Maryland Exercise and Robotics Center of Excellence, and University of Maryland School of Medicine, Baltimore, MD, USA (3) Clinical Biomarkers Laboratory, Division of Pulmonary, Allergy, and Critical Care Medicine, Emory University School of Medicine, Atlanta, GA, (USA)

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

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

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P133 • Combined exercise training reduces insulin resistance and central adiposity in obese adolescent

Song-Young Park Rebecca Cuthbert, Steven Scott, Elizabeth Pekas University of Nebraska at Omaha, Omaha, Nebraska (USA)

P134 • Aortic blood pressure responses to metaboreflex activation are attenuated in older adults with dynapenia

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P135 • The risk of sarcopenic obesity and physical fitness in Spanish adults

Raquel Aparicio Ugarriza Raquel Pedrero-Chamizo, Gonzalo Palacios, Josep Antoni Tur, Marcela González-Gross - ImFINE Research Group. Universidad Politécnica de Madrid (Spain)

P136 • High-intensity interval or moderate-intensity continuous training to improve physical performance in obese-osteopenic elderly women

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EPIDEMIOLOGY**P137 • 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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P138 • Three-year adverse health consequences of sarcopenia in community-dwelling older adults: results from the SarcoPhAge cohort study

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P139 • Sarcopenia and dynapenic obesity increase mortality among Brazilian older adults: a 15 year follow up of the SABE study

Jair Lício Ferreira Santos PHd1, Yeda Aparecida de Oliveira Duarte Phd2, Tiago da Silva Alexandre Phd3, Clarissa de Lacerda Nazario MSc4, Jorge Avelino Bento Phd5. (1) Faculdade de Medicina de Ribeirão Preto -USP. (2) Escola de Enfermagem USP. (3) Centro de Ciências Biológica e da Saúde UFSCAR. (4) Estudo SABE ? FSP-USP. (5) Estudo SABE FSP-USP. (Brazil)

P140 • Frailty and diabetes among Mexican American older adults

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P141 • Patient's engagement in the identification of critical outcomes in sarcopenia

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P142 • Dynamic approach of the frailty status in nursing homes: the SENIOR Cohort

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P143 • Sensory impairment and dependency, a prospective study among French elderly women: results from the E3N cohort study

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P144 • Frailty increases the incidence of mortality in elderly patients with cardiovascular diseases

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P145 • Associations between domestic violence through life and frailty: cross-sectional analysis from imias study

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P146 • Seeking for explanations for frailty incidence: the international mobility in aging study Imias

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P147 • 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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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

Alvin G. Thomas MSPH (1), Ashton A. Shaffer BA (1, 2), Hao Ying ScM (1), Silas P. Norman MD (3), Jeremy Walston MD (1), Dorry L. Segev MD, PhD (1, 2), *Mara McAdams-DeMarco* PhD (1, 2) (1) Hopkins University, Baltimore, MD; (2) University of Michigan, Ann Arbor, MI. (USA)

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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P160 • Association between gait speed with mortality, cardiovascular disease and cancer: a systematic review and meta-analysis

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P161 • Effect of multidomain intervention, Omega-3 polyunsaturated fatty acids supplementation or their combination on cognitive function in non-demented older adults according to frail status: results from the mapt study

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NUTRITION INTERVENTION

P162 • 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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P163 • Vitamin D supplementation is associated with a reduction in self-reported falls among older adults - D-SAFE Feasibility Study

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P164 • Screening of sarcopenia in a cardiology hospital - distinguishing functional capability of muscular weakness and its consequences

Patricia 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)

P165 • 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

P166 • 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)

P167 • 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)

P168 • Components of the mediterranean diet and mortality among older women with frailty

Oleg Zaslavsky PhD1, Shira Zelber-Sagi, PhD2, James M. Shikany, DrPH3, Tonya Orchard, PhD4, Robert Wallace, MD5, Linda Snetelaar, PhD5, Lesley Tinker, PhD6, (1) School of Nursing, University of Washington, Seattle, WA (2) Faculty of Health Science and Social Welfare, University of Haifa, Israel (3) Division of Preventive Medicine, University of Alabama, Birmingham, AL (4) College of Education and Human Ecology, Ohio State University, Columbus, OH (5) College of Public Health, University of Iowa, Iowa City, IA (6) Public Health Sciences, Fred Hutchinson Cancer Research Center, Seattle, WA (USA)

P169 • Osteoporosis, active daily living skills, and dietary patterns of congregate meal participants

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P170 • A meta-analysis of the effect of dietary omega-3 fatty acid supplementation on walking speed and inflammatory markers in older healthy adults

Joanne Stocks PhD 123, Ana M Valdes PhD 123 1 NIHR Nottingham BRC, UK 2 Arthritis Research UK Pain Centre, University of Nottingham, UK 3 Division of Rheumatology, Orthopaedics and Dermatology, School of Medicine, University of Nottingham, (UK)

P171 • Association between dietary nutrient intake and sarcopenia: the sarcophage cohort study

Charlotte Beaudart, PhD1-2, Médée Locquet1-2, PhD Candidate, Mathilde Touvier, PhD3, Jean-Yves Reginster, MD, PhD1-2, Olivier Bruyère, PhD1-2 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 Aging 3. Equipe de Recherche en Epidémiologie Nutritionnelle (EREN, UMR U1153 Inserm / U1125 Inra / Cnam / Universités Paris 5, 7 et 13, Centre de Recherche en Epidémiologie et Statistiques Sorbonne Paris Cité (CRESS) (France)

P172 • Social media - A possibility to improve the dissemination in promiss: a pilot study

Ellen Freiberger1, Michael Talaska1, Javier Ganzarain 2 Marjolein Visser3,1. Institute for Biomedicine of Aging (FAU Erlangen-Nürnberg) Kobergerstr. 60, 90408 Nürnberg 2. AGE Platform Europe 168 Avenue de Tervueren Brussels 3. Vrije Universiteit Amsterdam, Amsterdam (The Netherlands)

P173 • 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, Denis Breuille 1. 1 Nestlé Research Center, Lausanne, Switzerland, 2 Nestlé Institute of Health Science, Lausanne, Switzerland)

P174 • Risk factors associated with sarcopenic obesity in elderly residents in the north of the R.J.:FIBRA III study.

Gláucia Campos MD, PhD 1, 2, Virgílio Garcia MD, PhD 2, Maria Angélica MD, PhD2, Claudia Lopez MD, PhD 1, Roberto Lourenço MD, PhD 2. (1) Instituto de Medicina Social- Universidade do Estado do Rio de Janeiro (UERJ) - RJ Brasil (2) Laboratório de Envelhecimento Humano- Geronlab - UERJ - RJ (Brasil)

P175 • Evaluation of nutritional risk through Mini-Nutrition Screening and the Payette Scale in a Geriatric Population

Blanca González MN1,2, Patricia Guerrero1,2, Daniel Gámez PhM1, Sagrario Nuñez MD1, Xochitl Ortiz PhD3, Carolina Vargas1, Daniela Mendoza1, Abraham Treviño1, Patricia Ancer PhD2, Ricardo Salinas MD1 (1) Servicio de Geriatria del Hospital Universitario Dr. José Eleuterio González UANL. (2) Consulta de Nutrición del Hospital Universitario Dr. José Eleuterio González? UANL (3) Facultad de Psicología, UANL (Mexico)

P176 • Bioelectrical impedance analysis and risk of malnutrition in older adults of the community

Núñez Sagrario Gámez Daniel1, González Blanca1,2, Vargas Carolina1 Salinas Ricardo1. (1) Servicio de Geriatria del Hospital Universitario Dr. José Eleuterio González? UANL. (2) Consulta de Nutrición del Hospital Universitario Dr. José Eleuterio González? UANL (Mexico)

P177 • Muscle mass index, grip strength and nutritional status during hospitalization of acute hip fracture

Guerra Javier MD1, Gamez Daniel PhM2, González Blanca MN2,3, Ortiz Xóchitl PhD4, Salinas Ricardo MD2, Peña Victor PhD1. (1) Servicio de Ortopedia y Traumatología del Hospital Universitario ?Dr. José Eleuterio González? UANL (2) Servicio de Geriatria del Hospital Universitario ?Dr. José Eleuterio González? UANL. (3) Consulta de Nutrición del Hospital Universitario ?Dr. José Eleuterio González? UANL (4) Facultad de Psicología, UANL (Mexico)

P178 • Evaluation of swallowing in patients with heart failure

Raquel Gama Fernandes (1); Tatiana Magalhães de Almeida (1);, Marcela Dinalli Gomes Barbosa (1); Patricia Amante de Oliveira Soares (2) presenter; Carlos Daniel Magnoni (2); Elizabete 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)

P179 • Prevalence of obesity, sarcopenia and osteoporosis in a group of older Mexican women

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

P180 • Sarcopenic obesity and metabolic syndrome in elderly outpatients: is there an association?

Renata Borba de Amorim Oliveira MD, PhD1, Juliana de Carvalho Lima B2, Marcio José de Medeiros MD, PhD3, Vanessa Gomes Luiz da Costa S4 1. Adjunct Professor, Nutrition Program, UFRJ campus Macaé, RJ, BR 2. Bachelor in Nutrition, Nutrition Program, UFRJ campus Macaé, RJ, BR 3. Adjunct Professor, Engeneering Program, UFRJ campus Macaé, RJ, BR 4. Specialist, Bachelor in Physiotherapist, Program of Integral Attention to Elderly Health, SEMUSA / PMM, RJ, BR (Brazil)

P181 • 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, Francelise 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)

P182 • Nutritional profile of elderly women in Manaus- AM

Joan Faber MD1, General Surgery, Hospital and Emergency Room August 28, Manaus, Am- Brasil- Myrian Faber, PhD2, University of the State of Amazonas, Manaus, Am, Brasil; Alex Barreto de Lima, MSc2, University of the State of Amazonas, Manaus, Am, (Brasil)

P183 • Association between frailty and micronutrients insufficiency in japanese older outpatients

Kaori Kinoshita Shosuke Satake, Yasumoto Matsui, and Hidenori Arai National Center for Geriatrics and Gerontology, (Japan)

P184 • Nutritional deficiencies in amazonian elderly

Myrian Faber PhD2, University of the State of Amazonas, Manaus, Am, Brasil - Joan Faber MD2, General Surgery, , Manaus, Am- Brasil., Fatima Baptista, PhD3, Exercise and Health Laboratory, Faculty of Human Movement, Technical University of Lisbon, Lisbon, Portugal, , Alvío R. Gouveia, PhD4, Department of Physical Education and Sports University of Madeira Funchal, Portugal, Alex Barreto de Lima, MSc5, University of the State of Amazonas (Brazil)

ANIMAL MODELS

P185 • Skeletal muscle extracellular matrix (ECM) adaptation after chronic stretching exercise in aged female rats

Hilana Rickli Fiuza Martins, PT, MS1, Kátia Janine Veiga Massenz PT2, Nayara Bertoni3, Talita Campos3, Anna Raquel Silveira Gomes PT, MS, PhD4, Talita Gianello Gnoato Zotz PT, MS, PhD5 (1) PhD student of Physical Education Department, Federal University of Paraná, Curitiba, Paraná, Brazil. (2) Master student of Physical Education Department, Federal University of Paraná, Curitiba, Paraná, Brazil. (3) Physiotherapy student, Physiotherapy Department, Federal University of Paraná, Curitiba, Paraná, Brazil. (4) Physiotherapy Department, Masters and Doctorate Programs in Physical Education, Federal University of Paraná, Curitiba, Paraná, Brazil. (5) Physiotherapy Department, Federal University of Paraná, Curitiba, Paraná, Brazil)

P186 • alpha-melanocyte stimulating hormone modulates the central acyl ghrelin-induced stimulation of feeding and colonic secretion

Hsien-Hao Huang, Chih-Yen Chen2,3 Division of Emergency Department1, Gastroenterology and Hepatology2, Taipei Veterans General Hospital, and Faculty of Medicine, National Yang-Ming University School of Medicine3, Taipei, (Taiwan)

OSTEOPOROSIS & FRAILITY

P187 • Osteoporosis, self-rated health, and activity of daily living skills of older adults attending congregate meal sites

Edgar R. Vieira, Joan A. Vaccaro2, Gustavo G. Zarini2, and Fatma G. Huffman2 (1) Department of Physical Therapy, Florida International University, Miami, FL, USA (2) Department of Dietetics and Nutrition, Florida International University, Miami, FL, USA)

P188 • Mutual associations among frailty, sarcopenia and osteoporosis: Four-year observations between the second and third ROAD study surveys

Noriko Yoshimura, Shigeyuki Muraki1, Hiroyuki Oka2, Toshiko Iidaka1, Rie Kodama3, Chiaki Hori3, Hiroshi Kawaguchi4, Kozo Nakamura5, Toru Akune5, Sakae Tanaka3 1 Department of Prevention Medicine for Locomotive Organ Disorders, 22nd Century Medical and Research Center, The University of Tokyo, Tokyo, Japan 2 Department of Medical Research and Management for Musculoskeletal Pain, 22nd Century Medical and Research Center, The University of Tokyo, Tokyo, Japan 3 Department of Orthopaedic Surgery, Sensory and Motor System Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan 4 JCHO Tokyo Shinjuku Medical Center, Tokyo, Japan 5 National Rehabilitation Center for Persons with Disabilities, Saitama (Japan)

P189 • Walking steps correlated with bone mineral density at the femoral neck independently of muscle function in postmenopausal Japanese women

Jun Kitagawa, PhD1, Takahiro Tachiki, PT, MS2, Masayuki Iki, MD, PhD2, Junko Tamaki, MD, PhD3, Katsuyasu Kouda, MD, PhD2, Yuho Sato, PhD4, Etsuko Kajita PhD5, Naonobu Takahira, MD, PhD1, Sadanobu Kagamimori, MD, PhD6, JPOS Study Group2 (1) Graduate School of Medical Science, Kitasato University, Kanagawa, Japan (2) Department of Public Health, Kinki University Faculty of Medicine, Osaka, Japan (3) Department of Hygiene and Public Health, Osaka Medical College, Osaka, Japan (4) Department of Human Life, Jin-ai University, Fukui, Japan (5) Department of Nursing, Nagoya University Graduate School of Medicine, Aichi, Japan (6) University of Toyama, Toyama, (Japan)

BIOMARKERS AND IMAGING

P190 • Risk factors of sarcopenia in Ukrainian postmenopausal women

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

P191 • Influence of grip strength, physical activity, and dietary protein intake on muscle strength and cross-sectional area in middle aged-women

Christopher J Kotarsky MS, CSCS1, Kara A. Stone, MS, CSCS1, Rachel Iverson, MS1, Wonwoo Byun, PhD2, Kyle J Hackney, PhD, CSCS1, and Sherri N Stastny, PhD, RD, CSSD, LRD1 (1) North Dakota State University, Fargo, ND, USA (2) University of Utah, Salt Lake City, UT, USA

P192 • Changes in plasma levels of nitrotyrosine and monocyte chemoattractant protein-1 levels after etanercept therapy in rheumatoid arthritis

C Chen, National Yang-Ming University School of Medicine Taiwan (Taipei)

P193 • Screening tool for sarcopenia in older people: a biospectroscopic approach

Ricardo Oliveira Guerra 3, Leomir Aires Silva de Lima1, Daniele Sirineu Pereira2, Juliana Fernandes de Souza Barbosa3, Aline do Nascimento Falcão Freire3, Kássio Michell Gomes de Lima1. 1Institute of Chemistry, Biological Chemistry and Chemometrics, Federal University of Rio Grande do Norte, Natal, RN-Brazil 2Physical Therapy Department, Federal University of Alfernas, Alfernas, MG, Brazil 3Department of Physiotherapy, Federal University of Rio Grande do Norte, Natal, RN-(Brazil)

P194 • A new CT based approach to determine muscle and adipose tissue of paraspinal muscle

1. Klaus Engelke, Institute of Medical Physics, University of Erlangen-Nürnberg, Germany 2 Daniel Günzel, Institute of Medical Physics, University of Erlangen-Nürnberg, Germany 3 Oleg Museyko, Institute of Medical Physics, University of Erlangen-Nürnberg, Germany 4 Jean-Denis Laredo, ZAP-HP, Radiologie Ostéo-Articulaire, Hôpital Lariboisière, Université Paris Diderot, Paris, France 5 Andreas Meier, Institut of Informatics, University of Erlangen-Nürnberg, (Germany)

P195 • OMIC signatures in risk of frailty - a meta-analysis of nested case-control studies from the FRAILOMIC initiative

S Walter, IPHD1,2, David Gomez-Cabrero 3,4, B Davies MD1, F Garcia MD PhD5, Jesper Tegner3, Rodriguez-Mañas MD PhD1,5 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) Karolinska Institutet, Stockholm, Sweden. (4) King's College London, London, United Kingdom. (5) Geriatrics Department, Virgen del Valle Hospital, Toledo, Spain (6) Geriatrics Department, Getafe University Hospital, Madrid, (Spain)

P196 • Bioimpedance in heart failure: systematic review of current evidence

Eric Carelli (1), Melissa Bendayan (2,3), Alexandrine O'Brand (3), Louis Mullie (1), Jonathan Afilalo (2,3,4) 1 Department of Medicine, McGill University, Montreal, Quebec, Canada; 2 Division of Experimental Medicine, McGill University, Montreal, Quebec, Canada; 3 Centre for Clinical Epidemiology, Jewish General Hospital, Lady Davis Institute for Medical Research, Montreal, Quebec, Canada; 4 Division of Cardiology, Jewish General Hospital, McGill University, Montreal, Quebec, (Canada)

P197 • Semi-automated segmentation of psoas muscle area in older adults undergoing aortic valve replacement

Wayne Lok Ok Choo - Centre for Clinical Epidemiology, Lady Davis Institute, Jewish General Hospital, McGill University, Montreal, QC, Canada Samuel Mamane - Department of Medicine, McGill University, Montreal, QC, Canada Louis Mullie - Department of Medicine, McGill University, Montreal, QC, Canada Matthew Ades - Faculty of Medicine, McGill University, QC, Montreal, Canada Amanda Trnkus - 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 Martucci - Division of Cardiology, McGill University, Montreal, QC, Canada Nicolo Piazza - Division of Cardiology, McGill University, Montreal, QC, Canada Jonathan Afilalo - Division of Cardiology, McGill University, Montreal, QC, (Canada)

P198 • Panoramic ultrasound muscle cross-sectional area normalized to echo intensity as a marker for the loss of muscle quality with aging

Kyle J Hackney PhD, CSCS1, Christopher J Kotarsky, MS, CSCS1, Kara A Stone, MS, CSCS1, and Sherri N Stastny, PhD, RD, CSSD, LRD1 (1) North Dakota State University, Fargo, ND, (USA)

OSTEOPOROSIS & SARCOPENIA

P199 • Cognitive and psychosocial factors associated with reduced muscle mass, strength, and function in residential care apartment complex residents

Murad H. Taani PhD, MPH, RN, College of Nursing, University of Wisconsin-Milwaukee Ellen Siglinsky, BS, CCRC, Osteoporosis Clinical Research Program, University of Wisconsin - Madison Christine R. Kovach, PhD, RN, FAAN, FGSA, College of Nursing, University of Wisconsin-Milwaukee Bjoern Buehring, MD, Assistant Professor of Medicine, Division of Geriatrics and Gerontology/Osteoporosis Clinical Research Program, University of Wisconsin - Madison (USA)

P200 • Association between FRAX and sarcopenia in community-dwelling elderly in Japan

Noboru Ide, MD, PhD, Tomokazu Furuya PT, Soshi Ideta MD, Yoshihisa Miyazaki MD, Kenji Fujii MD, Taisaku Syouzaki MD, Nobuya Yamashita MD, PhD Kurotsuchi Fukuoka Kasuga Rehabilitation Clinic (Japan)

P201 • The mortality determinants of sarcopenia, MMSE and comorbidities in hospitalized geriatric patients.

Scott Lamers 1, Robin Degerickx 1, Stany Perkisas, MD2 (1) School of Medicine, University of Antwerp, Antwerp 2610, Belgium (2) University Centre for Geriatrics, ZNA (Ziekenhuis Netwerk Antwerpen), Antwerp 2000, (Belgium)

P202 • Muscle mass and intramuscular adipose tissue as predictors of 4-year mortality risk.

Perkisas Stany, MD1,2,3, Scott Lamers2, Robin Degerickx2, Anne-Marie De Cock, MD2, Vandewoude Maurits, MD, PhD1,2 1 ZNA (ZiekenhuisNetwerk Antwerpen) / Departement Geriatrie, Universiteit Antwerpen 2 Departement Geneeskunde, Universiteit Antwerpen 3 Belgian Ageing Muscle Society (Belgium)

P203 • One mineral density, spinal micro-architecture (tbs data) and body composition in the older Ukrainian women with vertebral fragility fractures

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

P204 • Potential factors involved in delayed osteoporotic fracture healing in the presence of sarcopenia: interventional study of the efficacy of low-magnitude high-frequency vibration

Ning Zhang PhD1, Kwok-sui Leung MD1, Simon Kwoon-ho Chow PhD1, Wing-hoi Cheung PhD1 (1) Department of Orthopaedics and Traumatology, Faculty of Medicine, the Chinese University of Hong Kong, (Hong Kong)

P205 • Gender-specific risk factors for sarcopenia progression in community-dwelling older adults

Tay Laura MBBS1, Leung Bernard, PhD2, Noor Hafizah, MBBS3,4, Yeo Audrey, BSc3, Yew Suzanne, BSN3, Ding Yew Yoong, MBBS3,5, Lim Wee Shiong, MBBS3,5 1Department of General Medicine (Geriatric Medicine), Sengkang General Hospital. Singapore 2Department of Rheumatology, Allergy and Immunology, Tan Tock Seng Hospital. Singapore 3Institute of Geriatrics and Active Ageing. Tan Tock Seng Hospital. Singapore 4Department of Continuing and Community Care. Tan Tock Seng Hospital. Singapore 5Department of Geriatric Medicine. Tan Tock Seng Hospital. (Singapore)

P206 • Aging, severe sarcopenia with metabolic syndrome in home care

Yvonne Suzy Handajani 1, *Yuda Turana*2, *Nelly Tina Wijaja*3 1. Department of Public Health & Nutrition, Faculty of Medicine, Atma Jaya Catholic University of Indonesia, North Jakarta, Jakarta, Indonesia 2. Department of Neurology, Faculty of Medicine, Atma Jaya Catholic University of Indonesia,, North Jakarta, Jakarta, Indonesia 3. Center of Health Research, Faculty of Medicine, Atma Jaya Catholic University of Indonesia, North Jakarta, (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.

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)

P208 • 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 Antoun*1, *, *E Migliavacca*2 *, *E Garratt*1, *SJ Barton*3, *P Titcombe*3, *L Westbury*3, *A Charpagne*2, *A Baczynska*4, *R Dodds*4, *HC Roberts*4,5, *AA Sayer* 4,6,7, *S Shaw*3, *A Sheppard*8, *C McFarlane*9, *N Kamani*10, *P Descombes*2, *C Cooper*1,3, *KM Godfrey*1,3,5, *JN Feige*2, *HP Patel*1,3,4,5¶, *KA Lillycrop*1,11 ¶ and the *EpiGen-MEMOSA Study Group* * Joint first authors, ¶ Joint senior authors, 1Human Development and Health Academic Unit, Faculty of Medicine, University of Southampton, UK; 2Nestle Institute of Health Sciences, Lausanne, Switzerland; 3 MRC Lifecourse Epidemiology Unit, University of Southampton; 4Academic Geriatric Medicine, Faculty of Medicine, University of Southampton; 5NIHR Southampton Biomedical Research Centre, University of Southampton & University Hospital Southampton NHS Foundation Trust, UK; 6AGE Research Group, Institute of Neuroscience, Newcastle University, UK; 7NIHR Newcastle Biomedical Research Centre; Newcastle University and Newcastle upon Tyne Hospitals NHS Foundation Trust; 8Liggins Institute, University of Auckland, Auckland, New Zealand; 9James Cook University, Australia, 10Singapore Institute for Clinical Sciences, Singapore; 11Biological Sciences, University of Southampton, (UK)

P209 • Body mass index recommendations and sarcopenia status in hospitalized older adults

Rachel R. Deer 1, *Katie A. O'Brien*1, *Shawn Goodlett*1, *Leyla Akhverdityeva*1, *Elena Volpi*1 (1) University of Texas Medical Branch, Galveston TX, USA

P210 • Factors associated with low muscle mass index in aging.

Naveira Miquel Ramos Luiz Roberto; *Andreoni Solange* Department of Preventive Medicine, Federal University of São Paulo - UNIFESP (Brazil)

P211 • Severity of sarcopenia is associated with postural balance and risk of falls in community-dwelling older women

André Bonadias Gadelha, MSc 1,3, *Silvia Gonçalves Ricci Neri*, MSc 1, *Ricardo Jacó de Oliveira*, PhD 1, *Martim Bottaro*, PhD 1, *Ana Cristina de David*, PhD 1, *Baruch Vainshelboim*, PhD 2, and *Ricardo Moreno Lima*, PhD 1 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) 3 Mauá Institute of Research and Education, Brasília, (Brazil)

P212 • 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)

P213 • Prevalence of sarcopenia in aging: a public health problem.

Naveira M MD, *Ramos LR*, MD PhD, *Andreoni S*, MD PhD, Department of Preventive Medicine of the Federal University of São Paulo

P214 • Design and validation of a software for the diagnosis of sarcopenia in community-dwelling chilean elders

Lydia Lera PhD, *Barbara Angel* PhD, *Carlos Márquez*, *Rodrigo Saguez*, *Cecilia Albala* MD Institute of Nutrition and Food Technology (INTA) - University of Chile, Santiago, (Chile)

P215 • Prevalence of sarcopenia with a bipolar impedanciometer at a cardiac rehabilitation center in Bogotá, Colombia

Luz Karime Alviz MD1 *Juan Carlos Galvis* MD1 *Orlando José Angulo* MD1 (1) Department of Physical Activity and Sports Medicine, Hospital Infantil Universitario de San José, Fundación Universitaria de Ciencias de la Salud, Bogotá, (Colombia)

P216 • Lipid accumulo product is inversely associated with skeletal muscle index indicating increased cardiometabolic risk in sarcopenic women.

Eleonora Poggiogalle 1,2, *Aldo Rosano* 3, *Dario Boschiero* 4, *Eric Ravussin* 2. 1.Sapienza University, Department of Experimental Medicine, Rome, 2. Pennington Biomedical Research Center, Baton Rouge, LA, USA, 3.National Institute of Health, Rome, Italy, 4.BIOTEKNA Co., Venice, (Italy)

P217 • Association between sarcopenia and osteoporosis in community dwelling elderly patients ?

Melissa Hughes MD1, *Ricardo Salinas* MD1, *Gladys Garza* MD1, *Xochitl Ortiz* PhD2 1. Geriatric Unit, University Hospital ?Dr. Jose Eleuterio Gonzalez? UANL, Monterrey, NL, MX 2. Faculty of Psychology UANL, NL, (Mexico)

P218 • Dynapenic-obesity as a risk factor for falls in older women

Júlia de Moraes Elias US1, *Juscélia Cristina Pereira*, MS1, *Silvia Gonçalves Ricci Neri*, MS1, *André Bonadias Gadelha*, MS1, *Ricardo M. Lima*, PhD1. 1 Faculty of Physical Education, University of Brasília, Brasília, Distrito Federal, (Brazil)

P219 • Hand grip strength and sarcopenia in advanced systolic heart failure patients receiving left ventricular assist devices

Amanda R Vest MBBS, MPH1, *Corinne Pellow* BA, MA1, *Nathan Yuen* BS1, *Angelo DeNofrio* BA1, *Alexandra Coston* BA1, *Edward Saltzman* MD2 (1) Tufts Medical Center, Boston, MA, USA (2) Friedman School of Nutrition Science and Policy, Tufts University, Boston, MA, (USA)

P220 • Factors associated with low bone mineral density among white women - Santos city, Brazil

Miquel Naveira MD PhD - Universidade Federal de São Paulo / UNIFESP 2. *Paulo Frazão*, MD PhD - Universidade de São Paulo / USP (Brazil)

P221 • Sarcopenia in adult renal transplant recipients: frequency and relationship with age, gender, type of graft donor, time from transplantation, type of immunosuppressive drugs and time on dialysis before transplant

Ana Paula Medeiros Menna Barreto MD, PhD student1, *Maria Inês Barreto Silva* MD, PhD1, *Kelli Trindade Carvalho* MD1, *Mariana Silva Costa* MD student1, *Karine Scanci Silva Pontes* MD student1, *Stephanie Giannini*1, *Jessica Veiga Pires*1, *Fernanda Gomes Abrantes*1, *Edison Souza* MD, PhD1, *Marcia Regina Simas Torres Klein* MD, PhD1 (1) Rio de Janeiro State University, Rio de Janeiro, RJ, (Brazil)

P222 • Is skipping meals associated with adverse health outcomes in community dwelling older adults? Findings from the National Health and Aging Trends Study

Loretta R. Anderson, M.H.S., M.A. 1, 2 1Johns Hopkins Bloomberg School of Public Health, Department of Mental Health 2Epigenetic Data Science, Director of Research, Neurosciences Division

P223 • Association of Diabetes Mellitus with frailty phenotype and sarcopenia in young, middle aged and older adults

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

P224 • Characteristics of the frailty phenotype on young, middle-aged, and older adults. A single center experience

Miriam Zylberglait 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)

P225 • Implementation of an Integrated Healthy Aging Clinic to investigate frailty, sarcopenia, and locomotive syndrome in a clinical setting

Yasumoto Matsui *Hidenori Arai*, *Tsuyoshi Watanabe*, *Shosuke Satake*, *Kazuyoshi Senda*, *Izumi Kondo*, *Kaori Kinoshita*, *Naoki Ito*, *Sarui Morita* *Sabre* and *Atsushi Harada* National Center for Geriatrics and Gerontology, (Japan)

Thursday, March 1 • 17:00 / 18:00

NESTLE HEALTH SCIENCE - SPONSORED SYMPOSIUM

Interactive Session: Practicalities of Sarcopenia Management

Each speaker will review a patient case and facilitate interactive input on practical aspects of better medical care (i.e., strategies to increase awareness among both multidisciplinary clinicians and patients, how to screen for and treat sarcopenia).

• **Orthopedic Surgery**

Alan H Daniels, MD - Assistant Professor of Orthopaedic Surgery (Providence, RI -USA) [TBC]

• **Physiotherapy / Rehabilitation**

Reto W. Kressig, MD - Professor & Chair of Geriatrics (Basel -Switzerland) [TBC]



Friday, March 2 • 17:00 / 18:00

LONGEVERON - SPONSORED SYMPOSIUM

Regenerative Medicine to Treat Chronic, Debilitating Conditions Associated with Aging

Longeveron LLC is a cellular therapy company developing biological solutions for chronic aging-related diseases and conditions, such as Aging Frailty and Alzheimer's disease. Longeveron's allogeneic mesenchymal stem cell product is currently being tested in 4 clinical studies under FDA-authorized Investigational New Drug (IND) applications, including a multicenter, randomized, placebo-controlled Phase 2b study in frail elderly patients with inflammation and mobility limitations.

Longeveron's symposium will feature experts from around the world, and is intended to provide a forum for discussion of the therapeutic potential for regenerative medicine to treat chronic, debilitating conditions associated with aging.

Joshua M. Hare, MD, FACC, FAHA

Co-Founder & Chief Science Officer, Longeveron LLC

Director, Interdisciplinary Stem Cell Institute, University of Miami Miller School of Medicine - Miami, FL

Sean X. Leng, MD, PhD

*Associate Professor of Medicine - Division of Geriatric Medicine and Gerontology
Department of Medicine - Johns Hopkins University School of Medicine - Baltimore, MD*

Bruno Vellas, MD

*Professor of Internal Medicine and Geriatrics - Chair Gerontopole
Toulouse University Hospital - Toulouse, France*



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