

8:30/9:00

WELCOME

Marco PAHOR (Gainesville, USA), Bruno VELLAS (Toulouse, France), Jorge RUIZ (Miami, USA), Matteo CESARI (Milano, Italy), Roger FIELDING (Boston, USA)

9:00/9:20

KEYNOTE 1

DO-HEALTH TRIAL Chairman : Bruno Vellas, Toulouse (France)
Heike Bishoff Ferrari, Zurich University, (Switzerland)

9:20/10:05

SYMPOSIUM 1

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES (HHS) INITIATIVES TO IMPROVE FUNCTION, PROMOTE HEALTHY AGING AND INDEPENDENT LIVING AMONG OLDER ADULTS

Moderator: Rosaly Correa-de-Araujo, MD, MSc, PhD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. Department of Health and Human Services (HHS)

• Aging Research Supported by the National Institute on Aging (NIA)

Marie A. Bernard, MD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. Department of Health and Human Services (HHS)

• Aging Research Supported by the National Institute on Aging (NIA): Announcing the NIA Central Biorepository

Rosaly Correa-de-Araujo, MD, MSc, PhD - National Institute on Aging (NIA), National Institutes of Health (NIH), U.S. • Department of Health and Human Services (HHS)

• Chronic Disease Self-Management Education (CDSME) Programs and Other Services and Supports Resources Funded by the HHS Administration for Community Living (ACL)

Carol Nohelia Montoya, FMD, MPH - Florida Health Networks (FHN)

10:05/10:20

CONFERENCE 1 Moderators: Angelo Parini, Toulouse (France), Anurag Singh, Ecublens (Switzerland)

RACE DEPENDENT CHANGES TO GENE EXPRESSION IN FRAIL, MIDDLE AGED ADULTS

Calais S. Prince PhD¹, Nicole Noren Hooten PhD¹, Nicole Mode MS¹, Yongqing Zhang PhD², Ngozi Ejiogu MD¹, Kevin Becker PhD², Alan B. Zonderman PhD¹, and Michele K. Evans PhD¹ - ⁽¹⁾ Laboratory of Epidemiology and Population Sciences, National Institute on Aging, National Institutes of Health, Baltimore, MD, USA - ⁽²⁾ Laboratory of Genetics and Genomics, National Institute on Aging, National Institutes of Health, Baltimore, MD, (USA)

10:20/10:35

CONFERENCE 2

TRANSLATING UROLITHIN A BENEFITS ON MUSCLE MITOCHONDRIA INTO HUMANS

A. Singh¹ P.A. Andreux¹, W. Blanco-Bose¹, P. Aebischer², J. Auwerx³ C. Rinsch¹ - ¹ Amazentis SA, Switzerland ² Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, Switzerland) ³ School of Life Sciences, Ecole Polytechnique Federale de Lausanne, (Switzerland)

10:35/11:05

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

11:05/11:20

CONFERENCE 3 Moderators: Matteo Cesari, Milan (Italy), Cyrus Cooper, Southampton (UK)

DEVELOPMENTS IN THE PATHOPHYSIOLOGIC BASIS OF FRAILTY IN TYPE 2 DIABETES AND EMERGING ROLES OF APELIN IN FUTURE CLINICAL TRIALS

Cedric Dray, INSERM (France) - Alan Sinclair, London (UK)

11:20/11:35

CONFERENCE 4

COMPENSATORY ADJUSTMENTS IN MOTOR UNIT BEHAVIOR DURING FATIGUE DIFFER FOR YOUNGER VERSUS OLDER MEN

Matt S. Stock¹, Jacob A. Mota² Dennis P. Kwon¹, Mary Kennedy⁴, Eric J. Sobolewski³, Youngdeok Kim⁴, Joaquin Gonzales⁴ - ¹University of Central Florida, Orlando, FL - ²University of North Carolina at Chapel Hill, Chapel Hill, NC ³Furman University, Greenville, SC ⁴Texas Tech University, Lubbock, TX (USA)

11:35/11:50

CONFERENCE 5

IS FRAILTY ASSOCIATED WITH WORSE OUTCOMES AFTER TOTAL JOINT REPLACEMENTS?

Lisa A. Mandl, MD, MPH^{1,2} Charles N. Cornell, MD^{1,2} Michael B. Cross, MD^{1,2} Alejandro Gonzalez Della Valle, MD^{1,2} Mark P. Figgie, MD^{1,2} Seth A. Jerabek, MD^{1,2} Justin T. Do, BSE¹ Mayu Sasaki, MPH Nathaniel Hupert, MD, MPH¹ Jackie Finik, MPH¹ Steven K. Magid, MD^{1,2} ¹Hospital for Special Surgery, New York, NY ²Weill Cornell Medicine, New York, NY, (USA)

11:50/12:00

ORAL COMMUNICATION 1

MEMBRANE LIPID REPLACEMENT WITH ORAL NTFACOR LIPIDS® TO RESTORE MITOCHONDRIAL FUNCTION, REDUCE FATIGUE, PAIN AND OTHER SYMPTOMS AND IMPROVE QOL INDICATORS IN AGED SUBJECTS

Garth L. Nicolson, PhD, MD(H)¹ and Paul Breeding, DC². ¹ Dept. of Molecular Pathology, The Institute for Molecular Medicine, Huntington Beach, CA, USA; ²Blue Hole Wellness, San Antonio, TX, (USA)

12:00/12:10

ORAL COMMUNICATION 2

OLDER ADULTS WITH BOTH COGNITIVE AND PHYSICAL IMPAIRMENTS ARE AT HIGHEST RISK TO DEVELOP DEMENTIA: A 12-YEAR LONG POPULATION-BASED STUDY ORAL

Giulia Grande¹; Debora Rizzuto¹; Davide L. Vetrano^{1,2}; Anna Marseglia¹; Nicola Vanacore³; Erika Laukka¹, Anna-Karin Welmer¹; Laura Fratiglioni^{1,4} ¹ Aging Research Center, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden ² Department of Geriatrics, Catholic University of Rome, Italy ³ National Centre of Epidemiology, National Institute of Health, Rome, Italy ⁴ Stockholm Gerontology Research Center, Stockholm, (Sweden)

12:10/12:20

ORAL COMMUNICATION 3

LONG TERM RATES OF CHANGE IN MUSCULOSKELETAL AGING: FINDINGS FROM THE HEALTH, AGING AND BODY COMPOSITION STUDY

*Leo Westbury, MSc¹, Holly Syddall, PhD¹, Elaine Dennison, PhD¹, Jane Cauley, DrPH², Tamara Harris, MD, MS³, Eric Shiroma, Jr, ScD, MEd⁴, Bret Goodpaster, PhD⁵, Anne Newman, MD, MPH⁶, **Cyrus Cooper**, FMedSci¹ ¹MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK - ² Department of Epidemiology, University of Pittsburgh, Pittsburgh, Pennsylvania, USA ³ Laboratory of Epidemiology and Population Sciences, Intramural Research Program, National Institute on Aging, Bethesda, Maryland, USA ⁴ Division of Preventive Medicine, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts, USA - ⁵ Translational Research Institute for Metabolism and Diabetes, Florida Hospital, Orlando, Florida, (USA)*

12:20/ 12:30

ORAL COMMUNICATION 4

INTERVENTIONS TO TREAT FRAILTY: A SYSTEMATIC REVIEW AND NETWORK META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

***Ahmed Negm**^{1,2}, Courtney C Kennedy^{1,3}, Ian D Cameron⁴, Lehana Thabane⁵, Areti-Angeliki Veroniki^{6,7}, Jonathan D. Adachi⁸, Julie Richardson², Maria Petropoulou⁹, Saad Alsaad⁸, Papaioannou^{1,3} ¹. Geriatric Education and Research for the Aging Sciences (GERAS), St Peter's Hospital, Hamilton ON, Canada ². School of Rehabilitation Science, McMaster University, Hamilton, ON, Canada, ³. Department of Medicine, McMaster University, Hamilton ON, Canada ⁴. John Walsh Centre for Rehabilitation Research | Sydney Medical School Northern, University of Sydney, Kolling Institute | Royal North Shore Hospital | St Leonards, NSW, Australia ⁵. Department of Health Research Methods, Evidence, and Impact, McMaster University, Hamilton ON, Canada, ⁶. Department of Primary Education, School of Education, University of Ioannina, Ioannina, Greece ⁷. Li Ka Shing Knowledge Institute, St. Michael's Hospital, Toronto, Ontario, Dept of Family and Community Medicine, College of Medicine, King Saud University, Riyadh, (Saudi Arabia)*

12:30/1:50

LUNCH BREAK - POSTER SESSIONS - EXHIBITS

1:50/2:35

SYMPOSIUM 2

NOVEL TARGETS FOR TREATING PHYSICAL AND COGNITIVE SYMPTOMS OF FRAILTY

Moderator: Tom Buford, University of Alabama at Birmingham, Department of Medicine (USA)

- **Neuroinflammation as a contributor to cognitive and physical frailty**

Yenisel Cruz-Almeida, University of Florida, Department of Aging and Geriatric Research (USA)

- **Weakened skeletal muscle circadian rhythms in older adults with chronic idiopathic fatigue**

Todd Manini, University of Florida, Department of Aging and Geriatric Research (USA)

- **The Gut Microbiome as a Target for Physical and Cognitive Frailty**

Tom Buford, University of Alabama at Birmingham, Department of Medicine (USA)

2:35/2:55

KEYNOTE 2

EFFECT ON PROTEIN INTAKE ON MUSCLE MASS, PERFORMANCE AND PHYSICAL FUNCTION IN FUNCTIONALLY LIMITED OLDER ADULTS

Chairman : Marco Pahor, Gainesville, FL, (USA)

***Shalender Bhasin**, Harvard Medical School, Boston (USA)*

2:55/3:25

PANEL DISCUSSION

INTERNATIONAL CLINICAL PRACTICE GUIDELINES FOR SARCOPENIA: SCREENING, DIAGNOSIS AND MANAGEMENT

John Morley, Saint Louis (USA), Elsa Dent, Adelaide, (Australia)

3:25/3:55

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

3:55/4:40

SYMPOSIUM 3

BIOENERGETICS OF FRAILTY: FROM THE ANIMAL MODELS TO THE HUMAN EVIDENCE

*Moderators: **Leocadio Rodriguez Manas**, MD, PHD, Director GARN-IAGG scientific*

*Director of ciberfes, head of the department of geriatrics, hospital universitario de Getafe, Spain - **Jose Vina**, MD, PHD Society for research on free radicals (SRFR), chair, department of physiology, Universidad de Valencia, Spain*

- **Longitudinal Trajectories of Physical Function in Mice**

Rafael de Cabo, (NIH/NIA/IRP) National Institute of Aging, Baltimore, (USA)

- **The isocaloric Ketogenic Diet reduces frailty and extends longevity in mice: potential mechanisms.**

Gino Cortopassi, Professor, Molecular Biosciences UC Davis, (USA)

- **The role of bioenergetics in human frailty**

Jeremy D. Walston, MD- Raymond and Anna Lublin Professor of Geriatric Medicine Johns Hopkins Asthma and Allergy Center, Baltimore, (USA)

4:40/4:50

ORAL COMMUNICATION 5 Moderators: Marco Pahor, Gainesville (USA), Pierre Dilda, Paris (France)

INHIBITION OF KYNURENE PRODUCTION PROTECTS SKELETAL MUSCLE FROM THE AGE-RELATED LOSS OF MASS AND STRENGTH.

*Helen Kaiser*¹, Kanglun Yu MD¹, Chirayu Pandya PHD¹, Carlos M. Isales MD¹, Meghan E. McGee-Lawrence PHD¹, Maribeth Johnson¹, Sadanand Fulzele PHD¹, Mark W. Hamrick PHD¹ ¹ Medical College of Georgia, Augusta University, Augusta, (USA)

4:50/5:00

ORAL COMMUNICATION 6

EARLY KIDNEY DYSFUNCTION IS ASSOCIATED WITH LONGITUDINAL DECLINE IN PHYSICAL PERFORMANCE IN THE ELDERLY

*Petra Bozkova PhD*¹ *Joshua I Barzilay MD*² Howard A Fink MD, MPH³ John A Robbins MD, MPH⁴ Jane A Cauley DrPH⁵ Joachim H Ix MD⁶ Kenneth J Mukamal MD, MPH⁷ ¹. Department of Biostatistics, University of Washington, Seattle, WA ². Division of Endocrinology Kaiser Permanente of Georgia and the Division of Endocrinology, Emory University School of Medicine, Atlanta, GA ³. Geriatric Research Education and Clinical Center, VA Health Care System, Minneapolis, MN ⁴. Department of Medicine, University of California at Davis, Modesto, CA ⁵. Department of Epidemiology, Graduate School, School of Public Health, University of Pittsburgh, Pittsburgh, PA ⁶. Division of Nephrology, University of California at San Diego, San Diego, CA ⁷. Department of Medicine, Beth Israel Deaconess Medical Center, Brookline, MA (USA)

5:00/5:10

ORAL COMMUNICATION 7

EVALUATING THE PHENOTYPE OF FRAILITY: VALIDATION OF A MEASURE OF PHYSIOLOGICAL MULTISYSTEM DYSREGULATION IN TWO DATASETS

A Gross, Michelle C. Carlson², Mara A. McAdams-DeMarco¹, Dan Mungas³, Eleanor Simonsick^{4,5}, Ravi Varadhan⁶, Qian-Li Xue^{1,4,7}, Jeremy Walston¹, Karen Bandeen-Roche⁷ ¹. Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA ². Department of Mental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA ³. Department of Psychiatry, University of California, San Diego, CA, USA ⁴. Department of Medicine, Division of Geriatric Medicine and Gerontology, Johns Hopkins School of Medicine, Baltimore, MD, USA ⁵. Intramural Research Program, National Institute on Aging, Baltimore, Maryland, USA ⁶. Division of Biostatistics & Bioinformatics, Sidney Kimmel Comprehensive Cancer Care Center, Johns Hopkins School of Medicine, Baltimore, MD, USA ⁷. Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, (USA)

5:10/5:20

ORAL COMMUNICATION 8

CT-DERIVED MUSCLE MASS AND MYOSTEATOSIS IN PATIENTS WITH SOFT-TISSUE SARCOMA: RESULTS FROM A PHASE-3 TRIAL AT 81 SITES IN 13 COUNTRIES

*Praman Fuangfa, MD*¹, Yao Lu, ScMP², Larry Yao, MD³, Karla V. Ballman, PhD², Patrick Kortebein, MD¹, Robert J. Canter, MD¹, Leon Lenchik, MD⁴ *Robert D. Boutin MD*¹ ⁽¹⁾ Departments of Radiology, Physical Medicine and Rehabilitation, and Surgery, University of California Davis, School of Medicine, Sacramento, CA, USA ⁽²⁾ Department of Healthcare Policy and Research, Weill Cornell Medical College, New York, NY, USA ⁽³⁾ Radiology and Imaging Sciences, National Institutes of Health, Bethesda, MD, USA ⁽⁴⁾ Dept of Radiology, Wake Forest School of Medicine, Winston-Salem, NC, (USA)

5:20/5:30

ORAL COMMUNICATION 9

EFFECT OF RESISTANCE EXERCISE TRAINING AND FISH OIL SUPPLEMENTATION ON THE ADAPTIVE RESPONSE OF MUSCLE IN SARCOPENIC OLDER WOMEN

*Natalia Maira da Cruz Alves MSc*¹, Carolyn Anne Greig PhD² Karina Pfrimer PhD¹ Priscila Carvalho MSc³ Ellen Cristine de Freitas PhD³, Thiago Neves MSc¹, Juliana Cristina Lemos dos Santos Marchesi PhD¹, Daniela Dalpubel Campanari MSc¹, Olga Laura Sena Almeida MD¹, *Eduardo Ferrioli MD PhD*¹ ⁽¹⁾ Department of Medicine, Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto, SP, Brazil ⁽²⁾ School of Sport, Exercise and Rehabilitation Sciences and MRC-Arthritis Research UK Centre for Musculoskeletal Ageing Research, University of Birmingham, Birmingham, UK ⁽³⁾ Sao Paulo State University (Unesp), Araraquara, SP, (Brazil)

5:30/5:40

ORAL COMMUNICATION 10

SARCOneos (API BIO101) TARGETS MASS RECEPTOR WITHIN THE PROTECTIVE ARM OF THE RENIN ANGIOTENSIN SYSTEM AND PROVES EFFICACY IN VARIOUS MODELS OF MUSCLE WASTING

*Pierre Dilda*¹, Mathilde Latil¹, Maria Serova¹, Blaise Didry-Barca¹, Sissi On¹, Stanislas Veillet¹, René Lafont² ¹ Biophysitis, Sorbonne Université, Paris, France ² Sorbonne Université, UPMC Univ Paris, Paris-Seine Biology Institute (BIOSIPE), CNRS, Paris, (France)

5:40/6:20

SYMPOSIUM 4

A GLOBAL CALL TO ACTION TO IMPROVE CARE FOR OLDER ADULTS WITH FRAGILITY FRACTURES

Jay Magaziner on behalf of the Fragility Fracture Network

• **Mobilizing the Globe: A Call to Action for Treating and Managing Hip Fractures**

Jay Magaziner, PhD, MSHyg Professor of Epidemiology, Division of Gerontology, Department of Epidemiology and Public Health, School of Medicine, University of Maryland, Baltimore, MD, USA

• **Sarcopenia as a Target for Care After Hip Fracture**

Denise Orwig, PhD Associate Professor of Epidemiology, Division of Gerontology, Department of Epidemiology and Public Health, School of Medicine, University of Maryland, Baltimore, MD, USA

• **Promising Interventions Targeting Sarcopenia in Hip Fracture Patients**

Ellen Binder, MD Professor of Medicine, Division of Geriatrics and Gerontology, Department of Medicine, Washington University School of Medicine, St Louis, MO, USA

8:00/9:00

BREAKFAST INDUSTRY EXPERT PANEL: *Hosted by Amazentis*
**NEW PARADIGM (MITOCHONDRIAL FUNCTION TO ADDRESS MUSCLE HEALTH)
 VS. OLD PARADIGM (BOOSTING MUSCLE MASS)**

An expert panel comprising thought leaders in the field of muscle health will be discussing the important paradigm shift in how we address muscle health during aging: from the old established paradigm of targeting improvement's in muscle mass, to the new emerging concept of improving muscle bioenergetics and mitochondrial health to boost muscle function

Chairman: Taylor Wallace, PhD, CEO at the Think Healthy Group

- **Roger Fielding**, PhD, Professor, Tufts University Boston, MA, (USA) - **Bill Evans**, PhD, Duke University, Durham, USA)
- **Jeremy D. Walston**, MD- Professor of Geriatric Medicine Johns Hopkins University, Baltimore, (USA)

9:00/9:15

PRESENTATION OF THE ICF SR LIFETIME ACHIEVEMENT AWARD

Lifetime Achievement Award is awarded to Dr. Jack Guralnik's for his long time contribution to the understanding of the epidemiology of age-related changes in physical functioning and disability and for his continued efforts in the promotion of sarcopenia as a clinically significant syndrome of advancing age.

Jack Guralnik, University of Maryland, Baltimore, (USA)

9:15/9:35

KEYNOTE 3

INTRINSIC CAPACITY *Chairman : Bruno Vellas, Toulouse (France)*
Matteo Cesari, University of Milan (Italy)

9:35/10:20

SYMPOSIUM 5

THE ROLE OF MITOCHONDRIAL FUNCTION IN CONDITIONS OF ACCELERATED AGING: IMPLICATIONS FOR NUTRITIONAL THERAPY *Chairman : Roger Fielding, Tufts University Boston, (USA)*

- **Novel aspects of mitochondrial biology and its implications for healthy aging**
Pinchas Cohen (University of Southern California, Los Angeles, (USA)
- **Benefits of increasing glutathione concentrations with cysteine and glycine supplementation demonstrated in HIV patients**
Rajagopal V Sekhar (Baylor College of Medicine , Houston, (USA)

10:20/10:40

KEYNOTE 4 *Chairman : Roger Fielding, Tufts University MA, (USA)*
BIOMARKER AND BIOLOGY OF FRAILTY
Jeremy Walston, Johns Hopkins University, Baltimore, (USA)

10:40/11:10

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

11:10/11:25

CONFERENCE 6 *Moderators: Yves Rolland, Toulouse (France), Adelaida Palla, Stanford (USA)*
THE ASSOCIATION BETWEEN MUSCLE MASS ASSESSED BY D3CR DILUTION WITH INCIDENT ADL AND IADL DISABILITY IN COMMUNITY DWELLING OLDER MEN

Peggy M. Cawthon, Terri Blackwell, Steven R. Cummings, Eric S. Orwoll, Kate A. Duchowny, Deborah Kado, Katie L.Stone, Kristine E. Ensrud, Jane A. Cauley, William J. Evans California Pacific Medical Center Alameda CA (USA)

11:25/11:40

CONFERENCE 7

DIFFERENCES IN AMINO ACID COMPOSITION BETWEEN VARIOUS TYPES OF PROTEIN SUPPLEMENTS.

Nathaniel Johnson BA¹, Kara Trautman MS, CSCS¹, Christopher Kotarsky MS, CSCS¹, Nathan Dicks MS, CSCS, TSAC-F¹, Kyle Hackney, PhD, CSCS¹, and Sherri Stastny PhD, RD, CSSD, LRD¹. ¹Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, (USA)

11:40/11:55

CONFERENCE 8

ALLOGENEIC BONE MARROW-DERIVED MESENCHYMAL STEM CELLS AS A TREATMENT FOR AGING RELATED INDICATIONS

J Hare, Longeveron LLC, Miami, FL, (USA)

11:55/12:05

ORAL COMMUNICATION 11

SURMOUNTING THE AGED NICHE TO IMPROVE SKELETAL MUSCLE REGENERATION

*Adelaida R. Palla*¹, Andrew T.V. Ho*¹, Ann Yang¹, Colin A. Holbrook¹, Peggy Kraft¹, and Helen M. Blau¹*Equal contribution; ¹Baxter Laboratory for Stem Cell Biology, Department of Microbiology and Immunology; Stanford School of Medicine, California, (USA)*

12:05/12:15

ORAL COMMUNICATION 12

DIETARY SUPPLEMENTATION WITH FISH OIL AND CURCUMIN IMPROVES GAIT SPEED AND MITOCHONDRIAL FUNCTION DURING AGING

Claire Boutry-Regard, PhD¹, Laurent Mosoni, PhD², Lydie Combaret, PhD², Christiane Deval², Lenaick Dupuis, MSc¹Eugenia Migliavacca, PhD³, Gabriele Civileto, PhD³ Jerome N. Feige, PhD³, Dominique Dardevet, PhD², Denis Breuille, PhD¹¹Nestle Research, Vers-chez-les-Blanc, Lausanne 26, Switzerland ²Universite Clermont Auvergne, INRA, UNH, CRNH Auvergne, Clermont-Ferrand, France;³ Nestle Research, EPFL Innovation Park, Lausanne, (Switzerland)

12:15/12:25

ORAL COMMUNICATION 13

PREDICTING ONSET, PREVALENCE AND MORTALITY IN MALE AND FEMALE MICE USING THE MOUSE FRAILTY PHENOTYPE

L Thompson, Dongmin Kwak, Boston University Cory Baumann, University of Minnesota (USA)

12:25/12:35

ORAL COMMUNICATION 14

AGING-ASSOCIATED LOSS OF HYPOXIA SIGNALING LIMITS SKELETAL MUSCLE REGENERATION

Indranil Sinha MD^{1,4}, Dharaniya Sakthivel MS¹, Kodi Udeh BS¹, Bin Li MD¹, Adriana Panayi MD¹, Ronald Neppel PhD², Shalender Bhasin MD³, Amy Wagers PhD⁴ ¹Division of Plastic Surgery, Brigham and Women's Hospital, Boston ²Department of Orthopedic Surgery, Brigham and Women's Hospital ³Division of Endocrinology, Brigham and Women's Hospital, Boston ⁴Harvard Stem Cell Institute, Cambridge (USA)

12:35/12:45

ORAL COMMUNICATION 15

DYNAPENIA IS ASSOCIATED WITH EXECUTIVE DYSFUNCTION. RESULTS FROM THE GAIT AND BRAIN STUDY

Montero-Odasso M MD PhD AGSF FRCPC^{1,2,3}, Sakurai R PhD⁴, Bray NW MSc^{1,3,5}, Pieruccini-Faria F PhD^{1,3}, Sarquis-Adamson Y PhD, Speechley M PhD² ¹ Department of Medicine, Division of Geriatric Medicine, Schulich School of Medicine & Dentistry, University of Western Ontario, London, ON, Canada ² Department of Epidemiology and Biostatistics, Schulich School of Medicine & Dentistry, University of Western Ontario, London, Canada; ³ Gait and Brain Lab, Parkwood Institute, Lawson Health Research Institute, London, ON, Canada; ⁴ Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan ⁵ School of Kinesiology, Faculty of Health Sciences, University of Western Ontario, London, ON, (Canada)

12:45/1:45

LUNCH INDUSTRY SYMPOSIUM Hosted by Biophytis

TARGETING THE PROTECTIVE ARM OF RENIN ANGIOTENSIN SYSTEM FOR DRUG DEVELOPMENT IN AGE RELATED SARCOPENIA

- **Inhibition of the renin angiotensin system and physical performance**

Marco Pahor, MD Institute on Aging University of Florida, Gainesville FL (USA)

- **Insect Steroid Hormones as Human Medicine: Application to Sarcopenia and Muscle Dystrophies**

René Lafont^{1,2}, Pierre Dilda¹, Laurence Dinan¹ and Stanislas Veillet¹ ¹ Biophytis, Sorbonne Université, Paris, France ² Sorbonne Université, UFR 927, IBPS-BIOSIPE, CNRS, Paris, (France)

- **Designing a clinical program for BIO101, a Mas receptor activator to target Age-related sarcopenia**

Waly Diah¹, Cendrine Tourette¹, Carole Margalef¹, René Lafont^{1,2}, Philippe Dupont¹, Pierre Dilda¹, Stanislas Veillet¹, Susanna Del Signore³, and Samuel Agus¹ ¹ Biophytis, Sorbonne Universités, UPMC BC9, Paris, France ² Sorbonne Universités, UPMC Univ Paris, CNRS - Institut de Biologie Paris Seine (BIOSIPE), Paris, France ³ Bluecompanion Ltd, London, (UK)

1:45/ 2:30

SYMPOSIUM 6

SPECIAL CONSIDERATIONS OF THE CANCER PATIENT WITH SARCOPENIA AND FRAILITY

Symposium moderator: Bette Caan Dr. PH, Senior Research Scientist Division of Research Kaiser Permanente of Northern California

- **The Aging Cancer Patient: Assessing Frailty, Sarcopenia and Accelerated Aging in the Geriatric Oncology Setting**

Grant Williams, Assistant Professor Institute for Cancer Outcomes and Survivorship, University of Alabama at Birmingham

- **Maintaining muscle health in cancer survivors: when and how to intervene**

Kristin Campbell Ph.D, Associate Professor, Faculty of Medicine University of British Columbia

- **Sarcopenia in oncology: prediction and assessment tools for clinical practice**

Elizabeth Cespedes Feliciano, Research Scientist Division of Research Kaiser Permanente Northern California (USA)

2:30/2:50

KEYNOTE 5

BIOMARKERS FOR SARCOPENIA Chairman : Matteo Cesari, Milano, (Italy)

Bill Evans, Duke University, Durham, (USA)

2:50/3:25

PANEL DISCUSSION

DEFINITION FOR SARCOPENIA

Presentation: Alfonso Cruz Jentoft, Madrid (Spain)

Panel Discussion: Marco Pahor, Gainesville (USA), Yves Rolland, Toulouse (France),

Matteo Cesari, Milan (Italy), Roger Fielding, Boston (USA)

3:25/3:55

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

3:55/4:40

SYMPOSIUM 7

OSTEOSARCOPENIC OBESITY: ENOUGH EVIDENCE FOR A DISTINCT ENTITY?

Organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO), in collaboration with the WHO Collaborating Center on Public Health Aspects of Musculoskeletal Health and Aging, Liège (Belgium)

Symposium moderator : Islene Araujo de Carvalho Geneva (Switzerland), Roger Fielding Boston (USA)

- **Welcome and introduction: Jean-Yves Reginster Liège (Belgium)**

- **Osteosarcopenic obesity: Facts and evidence supporting a distinct entity: Jurgen Bauer Heidelberg (Germany)**

- **Osteosarcopenic obesity: Lack of evidence supporting a distinct entity: Alfonso Cruz Jentoft Madrid (Spain)**

- **Discussion (Leader: René Rizzoli Geneva (Switzerland)): Islene Araujo de Carvalho Geneva (Switzerland), Jurgen Bauer Heidelberg (Germany), Olivier Bruyère, Médéa Locquet, Jean-Yves Reginster Liège (Belgium), Cyrus Cooper Southampton (UK), Alfonso Cruz Jentoft Madrid (Spain), Roger Fielding Boston (USA), Jean-Marc Kaufman Ghent (Belgium) • Conclusion: Cyrus Cooper Southampton (UK)**

- 4:40/4:50 **ORAL COMMUNICATION 16** *Moderators: Roger Fielding, Boston (USA), Mylène Aubertin-Leheudre, Montréal (Canada)*
COMPARAISON OF HIGH-INTENSITY INTERVAL TRAINING AND MODERATE-INTENSITY CONTINUOUS TRAINING ON PHYSICAL AND FUNCTIONAL CAPACITIES IN OBESE OLDER ADULTS
Aubertin-Leheudre M, Carvalho LP, Gouspillou G Département des Sciences de l'Activité Physique, GRAPA Université du Québec à Montréal, ; Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Université de Montréal, QC, (CA)
- 4:50/5:00 **ORAL COMMUNICATION 17**
FRAILTY AMONG PATIENTS WITH ACUTE MYOCARDIAL INFARCTION
Abdulla A. Damluji, Karen Bandeen-Roche, Daniel E. Forman, Gary Gerstenblith, Jin Huang, Mauro Moscucci, Jon R. Resar, Ravi Varadhan, Jeremy D. Walston, Jodi B Segal Johns Hopkins University Baltimore MD (USA)
- 5:00/5:10 **ORAL COMMUNICATION 18**
CHANGE IN METABOLIC AND INFLAMMATORY BIOMARKERS AFTER A 24-WEEK MULTIMODAL INTERVENTION DESIGNED TO IMPROVE FUNCTIONAL STATUS IN HYPERTENSIVE OLDER ADULTS: A PILOT RANDOMIZED CONTROLLED TRIAL
Liliana C. Baptista, PhD¹; Byron C. Jaeger, PhD², Stephen D. Anton, PhD³, Anthony A. Bavry, MD⁴ Eileen M. Handberg, PhD, ARNP¹, Anna K. Piazza-Gardner, PhD³, Sara A. Harper, PhD¹, Lisa M. Roberts, PhD¹, Bhanuprasad Sandesara, MD³, Christy S. Carter, PhD¹, Thomas W. Buford, PhD¹
⁽¹⁾ Department of Medicine, Division of Gerontology, Geriatrics and Palliative Care, University of Alabama at Birmingham, Birmingham, AL, USA
⁽²⁾ Department of Biostatistics, University of Alabama at Birmingham, Birmingham, AL, USA ⁽³⁾ Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA ⁽⁴⁾ Department of Medicine, College of Medicine, University of Florida, Gainesville, FL, (USA)
- 5:10/5:20 **ORAL COMMUNICATION 19**
THRESHOLD DEFINITION FOR GRIP STRENGTH TO IDENTIFY RELEVANT WEAKNESS IN SWISS DO-HEALTH PARTICIPANTS
Michael Gagesch, MD^{1,2}. Lauren Abderhalden, PhD^{1,2}. Reto W. Kressig, MD³. Bruno Vellas, MD⁴, René Rizzoli, MD⁵, Gregor Freystätter, MD^{1,2}, Heike A. Bischoff-Ferrari, MD, DrPH^{1,2} for the DO-HEALTH investigators
- 5:20/5:30 **ORAL COMMUNICATION 20**
ASSOCIATION BETWEEN NUTRIENT INTAKE, PHYSICAL ACTIVITY AND SARCOPENIA-RELATED GENE-PROMOTOR DNA METHYLATION
Lingxiao He MS^{1,2}. Praval Khanal MS^{1,2}. Christopher I Morse PhD², Martine Thomis PhD¹ ⁽¹⁾ Department of Movement Sciences, KU Leuven, Leuven, Belgium ⁽²⁾ Department of Exercise and Sport Science, Manchester Metropolitan University, Crewe, (UK)
- 5:30/5:40 **ORAL COMMUNICATION 21**
USING SOCIALLY ASSISTIVE ROBOTS FOR MONITORING AND PREVENTING PHYSICAL FRAILTY AMONG OLDER ADULTS: A STUDY ON USABILITY AND USER EXPERIENCE
Lex van Velsen^{1,2}, Richelle A.C.M. Olde Keizer¹, Mathieu Moncharmont², Brigitte Riche³, Nadir Ammour³, Gianluca Zia^{4,5}, Hermie Hermens^{1,2}, Aurèle N'Dja³ and Susanna Del Signore^{5,1} Roessingh Research and Development, Enschede, The Netherlands ² University of Twente, Enschede, the Netherlands ³ Sanofi R&D, Paris, France ⁴ Caretek srl, Torino, Italy ⁵ BlueCompanion Ltd, London, (UK)
- 5:40/5:50 **ORAL COMMUNICATION 22**
A GENOME-WIDE ASSOCIATION STUDY OF GRIP STRENGTH IN UK BIOBANK TO IDENTIFY GENETIC DETERMINANTS OF MUSCLE FUNCTION AND POTENTIAL THERAPEUTIC TARGETS FOR SARCOPENIA
Aaron Hinken, David Frederick, Mark Harpel, Fritz Kramer, Jaclyn Kerr, Jacqueline Panigel- Muscle Metabolism DPU, GSK Dawn Waterworth, Lea Sarov-Blat, Deepak Rajpal, Johannes Freudenberg - Target Sciences, GSK - Collegeville PA (USA)
- 5:50/6:00 **ORAL COMMUNICATION 23**
EFFECT OF LOSARTAN AND FISH OIL ON SECONDARY OUTCOMES IN THE ENRGISE PILOT RANDOMIZED CLINICAL TRIAL
Jane A. Cauley, DrPH¹, Stephen Anton, PhD², Dan Beavers, PhD³, Roger Fielding, PhD⁴, Stephen Kritchevsky, PhD³, Christiaan Leeuwenburgh, PhD², Kristina Lewis, MD, MPH, SMP, Christine Liu, MD, MS³, Laura Lovato, MS³, Ching-ju (Jane) Lu, MPH², Todd Manini, PhD², Mary McDermott, MD⁵, Mike Miller, PhD², Anne Newman, MD, MPH¹, Barbara Radziszewska, PhD, MPH⁶, Cindy L. Stowe, MPMP⁶, Russell Tracy, PhD⁷, Mike Walkup, MS³, Samuel Wu, PhD², Walter Ambrosius, PHD³, Marco Pahor, MD², ⁽¹⁾ University of Pittsburgh, Pittsburgh, PA, USA ⁽²⁾ University of Florida, Gainesville, FL, USA ⁽³⁾ Wake Forest School of Medicine, Winston-Salem, NC, USA ⁽⁴⁾ Tufts University, Boston, MA, USA ⁽⁵⁾ Boston University School of Medicine, Boston, MA, USA ⁽⁶⁾ Northwestern University, Chicago, IL, USA ⁽⁷⁾ University of Vermont, Burlington VT, USA ⁽⁸⁾ National Institutes of Health, Bethesda MD, (USA)

6:00/7:30

SPRINTT SYMPOSIUM

SARCOPENIA & PHYSICAL FRAILTY IN OLDER PEOPLE: MULTI-COMPONENT TREATMENT STRATEGIES

Symposium moderator : Roberto Bernabei, Roma, (Italy), Bruno Vellas, Toulouse, (France)

- **Baseline characteristics of eligible SPRINTT screenees**

Francesco Landi, Catholic University of the Sacred Heart, Rome (Italy)

- **SPRINTT biomarker study: rationale and methods**

Emanuele Marzetti, Policlinico Universitario Agostino Gemelli, Rome, (Italy)

- **Pharmacological and nutraceutical approaches to sarcopenia**

Dan Rooks, Novartis Institutes for BioMedical Research (USA)

7:30/9:00

ICFSR NETWORKING RECEPTION IN EDEN ROC GARDENS

(PRE-REGISTERED ATTENDEES ONLY)

8:00/9:00

BREAKFAST INDUSTRY SYMPOSIUM: *Hosted by Longeveron*

TRENDS IN ANTI-AGING RESEARCH AIMED AT EXTENDING THE HEALTHSPAN

Linda P. Fried, MD, MPH Dean and DeLamar, Professor of Public Health Mailman School of Public Health, Professor of Epidemiology and Medicine Senior Vice President, Columbia University Medical Center, Columbia University
Pinchas Cohen, MD - Dean, USC Leonard Davis School of Gerontology
Joshua M. Hare, MD - Co-Founder & Chief Science Officer, Longeveron LLC

9:00/ 9:10

ORAL COMMUNICATION 24 *Moderators: Luis Miguel Gutierrez Robledo (Mexico), Nicholas Rodin, Baltimore (USA)*

THE BURDEN OF AUTONOMOUS LIVING AND BASIC SELF-CARE DISABILITY FOR AGING ADULTS IN THE UNITED STATES: DISABILITY-ADJUSTED LIFE YEARS

Ryan McGrath, PhD¹, Soham Al Snih, MD, PhD², Kyriakos Markides, PhD², Kyle Hackney, PhD¹, Ryan Bailey, PhD,OTR/L³, Mark Peterson, PhD, MS⁴ (1) North Dakota State University, Fargo, ND, USA (2) University of Texas Medical Branch, Galveston, TX, USA (3) Washington University in St. Louis, St. Louis, USA (4) University of Michigan, Ann Arbor, MI, (USA)

9:10/9:20

ORAL COMMUNICATION 25

MULTICENTER COHORT STUDY OF FRAILTY AND ACCESS TO KIDNEY TRANSPLANTATION

Christine E. Haugen MD (1), Nadia M. Chu PhD MPH (1,2), Hao Ying MHS (1), Fatima Warsame BA (1) Courtenay M. Holscher MD (1), Niraj M. Desai MD (1), Miranda R. Jones PhD (2), Silas P. Norman MD (3), Daniel C. Brennan MD (4), Jacqueline Garonzik-Wang MD PhD (1), Jeremy D. Walston MD (5), Adam W. Bingaman MD (6), Dorry L. Segev MD PhD (1,2) Mara McAdams-DeMarco PhD (1,2) (1) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD. (2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD. (3) Department of Medicine, Division of Nephrology, University of Michigan, Ann Arbor, MI. (4) Department of Medicine, Division of Nephrology, Johns Hopkins University School of Medicine, Baltimore, MD. (5) Department of Medicine, Division of Geriatrics, Johns Hopkins University School of Medicine, Baltimore, MD. (6) Department of Surgery, Methodist Specialty and Transplant Hospital, San Antonio, TX. (USA)

9:20/9:30

ORAL COMMUNICATION 26

FRAILTY STATUS AFFECTS T CELL RESPONSES TO CMV, BUT NOT THE LEVEL OF CMV DNA

N Rodin, Johns Hopkins Bloomberg School of Public Health Weiyang Zhang, Johns Hopkins Bloomberg School of Public Health Tricia L Nilles, Johns Hopkins Bloomberg School of Public Health Jay H Bream, Johns Hopkins Bloomberg School of Public Health Sean X Leng, Johns Hopkins School of Medicine Joseph B Margolick, Johns Hopkins Bloomberg School of Public Health (USA)

9:30/10:15

SYMPOSIUM 8

GAP BETWEEN THEORY AND PRACTICE: A 360 DEGREE CONSIDERATION OF OPPORTUNITIES REMAINING IN FRAILTY MEASUREMENT

Symposium moderator and affiliations: Karen Bandeen-Roche, PhD

Hurley Dorrier Professor & Chair in Biostatistics Johns Hopkins Bloomberg School of Public Health (USA)

- **Disparate Assessment of Frailty? A Study to Evaluate Equivalency of Frailty Criterion Behavior across Demographic Subgroups**

Karen Bandeen-Roche, PhD. Johns Hopkins Bloomberg School of Public Health (USA)

- **Derivation of a measure of physiological multisystem dysregulation: Results from WHAS and Health ABC**

Alden L. Gross, PhD MHS. Johns Hopkins Bloomberg School of Public Health (USA)

- **Measuring Frailty Status in Older Adults with Acute Myocardial Infarction**

in Population-based Studies: Feasibility to Capture Prevalence and Effect Measure Modification

Abdulla Damluji, MD, MPH. Johns Hopkins University (USA)

10:15/10:30

CONFERENCE 9 *Moderators: Leocadio Rodríguez Mañas, Madrid (Spain), Shalender Bhasin, Boston, (USA)*

DISTINGUISHING AMONG DYNAPENIA WITHOUT FRAILTY, FRAILTY WITHOUT DYNAPENIA, AND FRAILTY WITH DYNAPENIA: IS IT CLINICALLY RELEVANT?

Paulo H. M. Chaves, MD, PhD¹, Qian-Li Xue, PhD², Leocadio Rodríguez Mañas, MD, PhD², Karen Bandeen Roche, PhD⁴. (1) Benjamin Leon Center for Geriatric Research and Education, Herbert Wertheim College of Medicine, Florida International University, Miami, FL, USA. (2) Center on Aging and Health, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD, USA. (3) Department of Geriatrics, Hospital Universitario de Getafe, Madrid, Spain. (4) Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, (USA)

10:30/10:45

CONFERENCE 10

IMPROVING MUSCLE, BONE AND MOBILITY IN OLD AGE

Debra Waters, PhD, Director of Gerontology Research Director of Ageing Well National Science Challenge - School of Physiotherapy and Department of Medicine - Dunedin (New Zealand)

10:45/11:15

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

- 11:15/11:30 **CONFERENCE 11** Moderators: Debra Waters, Dunedin, (New Zealand), Suzette Pereira, Columbus (USA)
ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILTY AND COST IMPLICATIONS AMONG COMMUNITY-DWELLERS
 Beatriz Rodriguez-Sánchez, PhD¹, José Antonio Carnicero-Carreño, PhD², **Suela Sulo**, PhD³, Ricardo Rueda MD, PhD⁴, Jamie Partridge, PhD, MBA³, Suzette Pereira, PhD³, Leocadio Rodríguez-Mañás MD, PhD^{2,5} ⁽¹⁾Universidad de Castilla-La Mancha, Spain ⁽²⁾Geriatric Department Fundación de Investigación Biomédica, Hospital Universitario de Getafe, Getafe, Spain ⁽³⁾ Abbott Nutrition, Columbus, OH, USA ⁽⁴⁾Abbott Nutrition, Granada, Spain ⁽⁵⁾Geriatric Department, Hospital Universitario de Getafe, Getafe, Spain
- 11:30/11:45 **CONFERENCE 12**
FRAILTY AND SARCOPENIA IN LATIN AMERICA. PRESENT AND FUTURE
Clemente Zuniga-Gil, head of the geriatric department at Tijuana's general hospital. universidad autonoma de Baja California. (Mexico)
- 11:45/12:00 **CONFERENCE 13**
PREDICTING FIRST TIME INJURIOUS FALLS IN OLDER MEN AND WOMEN LIVING IN THE COMMUNITY
THE FIF SCREENING TOOL
Stina Ek ⁽¹⁾; Debora Rizzuto ⁽¹⁾; Amaia Calderon Larrañaga (1); Erika Franzén ^(2,3); Weili Xu ⁽¹⁾; Anna-Karin Welmer ^(1,2,3,4) ⁽¹⁾ Aging Research Center (ARC), Department of Neurobiology, Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden⁽²⁾ Division of Physiotherapy, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Sweden⁽³⁾ Allied Health Professionals, Function Area Occupational Therapy & Physiotherapy, Karolinska University Hospital, Stockholm, Sweden ⁽⁴⁾ Stockholm Gerontology Research Center, (Sweden)
- 12:00/12:10 **ORAL COMMUNICATION 27**
NETWORK ANALYSIS OF FRAILTY AND AGING: EMPIRICAL DATA FROM THE MEXICAN HEALTH AND AGING STUDY
 Carmen García-Peña, Ricardo Ramírez-Aldana, Lorena Parra-Rodríguez, Juan Carlos Gómez-Verján, Mario Ulises Pérez-Zepeda, **Luis Miguel Gutierrez-Robledo**. Instituto Nacional de Geriatria (Mexico)
- 12:10/12:20 **ORAL COMMUNICATION 28**
NORMATIVE DATA FOR AND PREDICTORS OF 5-YEAR CHANGE IN GAIT SPEED AMONG U.S. OLDER ADULTS IN THE NATIONAL SOCIAL LIFE, HEALTH AND AGING STUDY
Huisingh-Scheet M¹, Kocherginsky M², Ferguson M³, Huang E⁴, Schumm LP⁵, Waite L⁶ ¹University of Chicago Medicine, Department of Medicine, Section of Geriatrics and Palliative Care Medicine, Chicago, IL² Northwestern University, Department of Preventive Medicine, Chicago, IL³University of Chicago Medicine, Department of Surgery, Section of Thoracic Surgery⁴University of Chicago Medicine, Department of Medicine, Section of General Medicine, Chicago⁵ University of Chicago, Dept of Public Health Sciences, Chicago, ⁶University of Chicago, Department of Sociology & NORC (USA)
- 12:20/12:30 **ORAL COMMUNICATION 29**
EFFECT OF OMEGA-3 FATTY ACID INTAKE ON RED BLOOD CELL FATTY ACID COMPOSITION AND ASSOCIATION WITH INFLAMMATION AND MOBILITY
R.A. Fielding, R.A. Fielding, PhD¹, T. Manini, PhD², A. Newman, MD³, M.M. McDermott, MD⁴, S. Anton, PhD², S.B. Kritchevsky, PhD⁵, R. Tracy, PhD⁶, W.T. Ambrosius, PhD⁷, L. Lovato, MS⁸, Suzette Pereira, PhD⁹, A. Santos, MS⁹, M. Pahor, MD⁹. ⁽¹⁾ Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA, USA ⁽²⁾ Department of Aging and Geriatric Research, University of Florida, Gainesville, FL, USA ⁽³⁾ Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh PA, USA ⁽⁴⁾ Division of General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, Illinois, USA ⁽⁵⁾ Sticht Center on Aging, Wake Forest School of Medicine, Winston-Salem, NC, USA ⁽⁶⁾ Departments of Pathology & Laboratory Medicine, and Biochemistry, Larner College of Medicine, University of Vermont, Burlington, Vermont, USA ⁽⁷⁾ Department of Biostatistics and Data Science, Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA ⁽⁸⁾ Abbott Nutrition, Columbus, OH, USA ⁽⁹⁾ Abbott Nutrition, Granada, Spain
- 12:30/12:40 **ORAL COMMUNICATION 30**
NOVEL INFLAMMATORY BIOMARKERS AND THE ONSET OF FRAILTY AND MAJOR MOBILITY DISABILITY IN THE ENRIGISE PILOT TRIAL
Stephen B. Kritchevsky PhD¹, Russell Tracy, PhD², Todd M. Manini, PhD³, Anne B. Newman, MD, MPH⁴, Mary McDermott, MD⁵, Roger Fielding, PhD⁶, Laura Lovato, PhD⁷, Ezequiel Zamora, MD¹, Marco Pahor, MD⁹ ⁽¹⁾ Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Sticht Center for Healthy Aging and Alzheimer's Prevention, Winston-Salem, NC, USA ⁽²⁾ Department of Pathology & Laboratory Medicine, Larner College of Medicine, University of Vermont, Burlington, VT, USA ⁽³⁾ Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA ⁽⁴⁾ Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, USA ⁽⁵⁾ Department of Medicine, General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA ⁽⁶⁾ Nutrition exercise physiology and sarcopenia laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging Tufts University Boston USA ⁽⁷⁾ Dept of Biostatistics and Data Science, Div. of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, USA
- 12:40/12:50 **ORAL COMMUNICATION 31**
EFFECT OF AEROBIC OR RESISTANCE EXERCISE OR BOTH ON BODY COMPOSITION AND METABOLIC AND PHYSICAL FUNCTION IN OBESE OLDER ADULTS WHILE DIETING: RESULTS FROM THE LITOE RANDOMIZED CLINICAL TRIAL
Debra L. Waters University of Otago Department of Medicine, School of Physiotherapy, Dunedin, New Zealand and University of New Mexico School of Medicine, Department of Internal Medicine, Albuquerque, New Mexico; Lina Aguirre New Mexico VA Health Care System, Albuquerque, New Mexico and University of New Mexico School of Medicine, Department of Internal Medicine, Albuquerque, New Mexico; A. Burke Gurney University of New Mexico School of Medicine, Division of Physical Therapy, Albuquerque, New Mexico; David R. Sinacore Washington University School of Medicine Program in Physical Therapy, St. Louis, Missouri; Kenneth Fowler New Mexico VA Health Care System Albuquerque, New Mexico; Reina Armamento Villareal Baylor College of Medicine, and the Center for Translational Research on Inflammatory Diseases, Division of Endocrinology, Diabetes, and Metabolism, Michael E. DeBakey Veterans Affairs (VA) Medical Center, Houston, Texas; Clifford Qualls University of New Mexico School of Medicine, Department of Mathematics and Statistics, Albuquerque, New Mexico; Dennis T. Villareal Baylor College of Medicine, and the Center for Translational Research on Inflammatory Diseases, Division of Endocrinology, Diabetes, and Metabolism, Michael E. DeBakey Veterans Affairs (VA) Medical Center, Houston, Texas
- 12:50/1:50 **LUNCH BREAK - POSTER SESSIONS - EXHIBITS**

1:50/2:35

SYMPOSIUM 9

SELECTION OF RELEVANT OUTCOMES IN SARCOPENIA: A DISCRETE CHOICE EXPERIMENT

Organized by the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO), in collaboration with the WHO Collaborating Center on Public Health Aspects of Musculoskeletal Health and Aging, Liège (Belgium)

Symposium moderator: **Mickaël Hiligsmann** Maastricht (the Netherlands), **Charlotte Beaudart** Liège (Belgium)

- **Welcome and introduction:** **Jean-Yves Reginster** Liège (Belgium)
- **Identification and prioritization of important outcomes for patients in sarcopenia:** **Charlotte Beaudart**
- **Results from the cross-European Discrete Choice Experiment:** **Mickaël Hiligsmann** Maastricht (the Netherlands)
- **Discussion (Leader: Fanny Buckinx Liège (Belgium)):** **Islene Araujo de Carvalho** Geneva (Switzerland), **Jurgen Bauer** Heidelberg (Germany), **Charlotte Beaudart, Olivier Bruyère, Jean-Yves Reginster** Liège (Belgium), **Cyrus Cooper** Southampton (UK), **Alfonso Cruz-Jentoft** Madrid (Spain), **Mickaël Hiligsmann** Maastricht (the Netherlands), **Jean-Marc Kaufman** Ghent (Belgium), **René Rizzoli** Geneva (Switzerland) **Conclusion: Olivier Bruyère** Liège (Belgium)

2:35/3:15

PANEL DISCUSSION

ICOPE Integrated Care for Older PEople: Presentation and Panel discussion

Islene Araujo de Carvalho, World Health Organization (WHO), Geneva, Switzerland

Bruno Vellas, Toulouse (France), **Matteo Cesari**, Granda-Università di Milano, (Italy)

Luis Miguel Gutierrez-Robledo Instituto Nacional de Geriatria (Mexico)

3:15/3:45

COFFEE BREAK - POSTER SESSIONS - EXHIBITS

3:45/3:55

ORAL COMMUNICATION 32 Moderators: **Jorge Ruiz**, Miami (USA), **Catherine Jankowski**, Aurora (USA)

BIOMARKERS OF SARCOPENIA IN VERY OLD PATIENTS WITH HIP FRACTURE

Alfonso-Jose Cruz-Jentoft MD, PhD¹, **Carmen Sánchez-Castellano** MD, PhD¹, **Paloma Bermejo-Bescós** PhD², **María-Nieves Vaquero Pinto** (1), **Carmen Miret-Corchado** (1), **Sagrario Martín-Aragón** PhD^{2, (1)} Geriatrics Department, Hospital Universitario Ramón y Cajal, IRYCIS, Madrid, Spain. (2) Facultad de Farmacia, Universidad Complutense de Madrid, (Spain)

3:55/4:05

ORAL COMMUNICATION 33

SARCOPENIC OBESITY IN ASIAN POPULATIONS: INFLUENCE OF OBESITY DEFINITIONS ON PREVALENCE AND PHYSICAL PERFORMANCE

Ezra Qi-En Khor¹; **Jun-Pei Lim**, MBBS, MRCP (UK), MMed (Int Med)^{2,3}; **Laura Tay**, MBBS, MRCP (UK), MMed (Int Med), MCh; **Audrey Yeo**, BMSc³; **Suzanne Yew**, BSN³; **Yew-Yoong Ding**, MBBS, FAMS, FRCP (Edin), PhD^{2,3}; **Wee-Shiong Lim**, MBBS, MRCP (UK), MMed (Int Med), MHPed, AGSF, FAMS^{2,3} (1) Lee Kong Chian School of Medicine, Singapore (2) Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore (3) Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore (4) Department of General Medicine (Geriatric Medicine), Sengkang Hospital. (Singapore)

4:05/4:15

ORAL COMMUNICATION 34

UREMIC MYOPATHY: DYNAPENIA, DIABESITY-ASSOCIATED SARCOPENIA & PHYSICAL FRAILTY IN DISGUISE?

David R. Sinacore PT, PhD, FAPTA⁽¹⁾, **Daniel C. Bittel** PT, PhD, DPT⁽²⁾, **Adam J. Bittel** PT, PhD, DPT⁽²⁾ (1) Department of Physical Therapy, High Point University, High Point NC, USA. (2) Center for Genetic Medicine Research, Children's Natuional Medical Center, Washington DC, (USA)

4:15/4:25

ORAL COMMUNICATION 35

MUSCLE MASS IS MAINTAINED AND BODY FAT REDUCED WITH EXERCISE IN OLDER PEOPLE AGING WITH HIV

Catherine M. Jankowski, PhD¹, **Melissa P. Wilson**, MS², **Todd T. Brown**, MD, PhD³, **Samantha MaWhinney**, ScD², **Kristine M. Erlandson**, MD⁴ - University of Colorado College of Nursing Aurora Colorado (USA)

4:25/4:35

ORAL COMMUNICATION 36

A RANDOMIZED CONTROLLED PILOT AND FEASIBILITY EXERCISE AND PROTEIN EFFECTIVENESS SUPPLEMENTATION STUDY SUPPORTING AUTONOMY IN COMMUNITY-DWELLING FRAIL OLDER ADULTS

Agathe Daria Jadczak^{1,2}, **Renuka Visvanathan**^{1,2,3}, **Robert Barnard**⁴, **Natalie Luscombe-Marsh**⁵ ¹ National Health and Medical Research Council Centre of Research Excellence Frailty and Healthy Ageing, University of Adelaide, South Australia, Australia ² Adelaide Geriatrics Training and Research with Aged Care (G-TRAC) Centre, Discipline of Medicine, Adelaide Medical School, University of Adelaide, South Australia, Australia ³ Aged and Extended Care Services, The Queen Elizabeth Hospital, Central Adelaide Local Health Network, Adelaide, South Australia, Australia ⁴ Centre for Physical Activity in Ageing (CPAA), Central Adelaide Local Health Network, Adelaide, South Australia, Australia ⁵ Health and Biosecurity, Commonwealth Scientific Industrial Research Organisation (CSIRO), Adelaide, South Australia, Australia

4:35/4:45

ORAL COMMUNICATION 37

EFFECT OF GASTRIC ACID SUPPRESSANTS ON RESPONSE TO A PHYSICAL ACTIVITY INTERVENTION AND MAJOR MOBILITY DISABILITY IN OLDER ADULTS: RESULTS FROM THE LIFESTYLE INTERVENTIONS FOR ELDERLY (LIFE) STUDY

J Brown University of Florida Gainesville (USA), **Patrick Squires**, PharmD¹, **Marco Pahor**, MD², **Todd Manini**, PhD², **Joshua Brown**, PharmD, PhD¹ ¹Department of Pharmaceutical Outcomes & Policy, University of Florida College of Pharmacy ²Institute on Aging, University of Florida College of Medicine

4:45/4:55

ORAL COMMUNICATION 38

SARCOPENIA IN OLDER ADULTS UNDERGOING TRANSCATHETER AORTIC VALVE REPLACEMENT

J Afilalo Jewish General Hospital, McGill University Montreal Quebec (Canada) **Samuel Mamane** MD MSc MPH, **Louis Mullie** MD, **Matthew Ades** MD, **Wayne Lok Ok Choo**, **Nicolo Piazza** MD PhD, **Giuseppe Martucci** MD, **José A Morais** MD, **Dae H Kim** MD ScD, **Amanda Trnkus** MSc **Jonathan Afilalo** MD MSc, on behalf of the FRAILTY-AVR Investigators.

END OF THE CONFERENCE

BIOLOGY OF FRAILTY AND AGING

- P 1 • Circulating Interleukin-6 is Associated with Skeletal Muscle Size, Composition, Contractile Function, and Physical Performance in Mobility-Limited Older Adults**
 Brittany B. Barrett MS¹, Gregory J. Grosicki PhD^{1,2}, Davis A. Englund MS¹, Christine Liu MD¹, Thomas G. Trivison PhD³, Tommy Cederholm MD PhD⁴, Thomas Gustafsson MD PhD⁵, Kieran F. Reid PhD¹, Roger A. Fielding PhD¹ ⁽¹⁾ Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA ⁽²⁾ Department of Health Sciences and Kinesiology, Biodynamics and Human Performance Center, Georgia Southern University (Armstrong Campus), Savannah, GA ⁽³⁾ Institute for Aging Research, Hebrew Senior Life, Harvard Medical School, Boston, MA ⁽⁴⁾ Department of Public Health and Caring Sciences, Clinical Nutrition and Metabolism, Uppsala University, Uppsala, Sweden ⁽⁵⁾ Division of Clinical Physiology, Department of Laboratory Medicine, Karolinska Institutet, Stockholm, (Sweden)
- P 2 • Sarcopenia is associated with widespread changes in the muscle methylome**
 Elie Antoun¹, Emma Garratt¹, Alicja Baczyńska², Sheila J Barton³, Philip Titcombe³, Mark A Burton¹, Leo Westbury³, Sarah Shaw³, Richard Dodds^{4,5}, Holly E Syddall³, Helen C Roberts^{2,6}, Avan A Sayer^{4,5}, Cyrus Cooper^{3,6}, Harish P Pate^{3,6}, Keith M Godfrey^{3,6}, Karen A Lillycrop^{6,7,8} ⁽¹⁾ Joint senior authors, ⁽²⁾ Human Development and Health Academic Unit, Faculty of Medicine, University of Southampton, UK; ⁽³⁾ Academic Geriatric Medicine, Faculty of Medicine, University of Southampton; ⁽⁴⁾ MRC Lifecourse Epidemiology Unit, University of Southampton; ⁽⁵⁾ AGE Research Group, Institute of Neuroscience, Newcastle University, UK; ⁽⁶⁾ NIHR Newcastle Biomedical Research Centre; Newcastle upon Tyne Hospitals NHS Foundation Trust, ⁽⁷⁾ NIHR Southampton Biomedical Research Centre, University of Southampton & University Hospital Southampton NHS Foundation Trust, UK; ⁽⁸⁾ Biological Sciences, University of Southampton, (UK)
- P 3 • Intramuscular fat infiltration, muscle strength and sedentary time in frail older persons**
 Natália Maira da Cruz Alves MSc¹, José Ailton de Oliveira Carneiro PhD², Karina Pfirmer PhD¹, Thiago Neves MSc¹, Fernanda Pinheiro Amador dos Santos Pessanha PhD¹, Juliana Cristina Lemos dos Santos Marchesi PhD¹, Tatiane Lopes Pontes MSc¹, Julio Cesar Moriguti MD, PhD¹, Nereida Lima MD, PhD¹, Eduardo Ferrioli MD, PhD¹ ⁽¹⁾ Ribeirão Preto Medical School, University of Sao Paulo, Ribeirão Preto, SP, Brazil. ⁽²⁾ Southwest Bahia State University, Jequié, BA, (Brazil)
- P 4 • Searching for biomarkers and risk factors of frailty in older adults - preliminary results from the BioFrail study**
 Arminda Teixeira-Gomes, MD^{1,2}, Filipa Esteves, MD^{1,2}, Ana Catarina Sousa, MD, PhD^{3,4,5}, M. Ramiro Pastorinho, MD, PhD^{3,4,6}, Iolanda Carvalho, MD, PhD⁷, Vanessa Valdiglesias, MD, PhD^{1,8}, João Paulo Teixeira, MD, PhD^{1,2}, Solange Costa, MD, PhD^{1,2} ⁽¹⁾ EPIUnit – Instituto de Saúde Pública da Universidade do Porto, Porto, Portugal; ⁽²⁾ Environmental Health Department, National Institute of Health, Porto, Portugal; ⁽³⁾ CICS-UBI, University of Beira Interior, Covilhã, Portugal; ⁽⁴⁾ NutESA, Faculty of Health Sciences, University of Beira Interior, Covilhã, Portugal; ⁽⁵⁾ CICECO, Department of Chemistry, University of Aveiro, Aveiro, Portugal; ⁽⁶⁾ Faculty of Health Sciences, University of Beira Interior, Covilhã, Portugal; ⁽⁷⁾ Research Center in Physical Activity, Health and Leisure (CIAFEL), Faculty of Sports, University of Porto, Porto, Portugal; ⁽⁸⁾ DICOMOSA Group, Area of Psychobiology, Department of Psychology, University of A Coruña, A Coruña, (Spain)
- P 5 • Aortic pressure wave reflection is associated with muscle strength and mass, but not with gait speed, in older adults**
 Arturo Figueroa MD, PhD¹, Salvador J. Jaime, PhD², Michael J. Ormsbee, PhD³, Arun Maharaj, MS¹, Justin Mason PhD⁴ ⁽¹⁾ Department of Kinesiology and Sport Management, Texas Tech University, Lubbock, TX, USA ⁽²⁾ Department of Exercise and Sport Science, University of Wisconsin, La Crosse, WI, USA ⁽³⁾ Department of Nutrition, Food, and Exercise Sciences, Florida State University, Tallahassee, FL, USA ⁽⁴⁾ Department of Occupational Therapy, University of Florida, Gainesville, FL (USA)
- P 6 • Poor glycemic control in patients with diabetes and prevalence of sarcopenia: The MUSCLES-DM study**
 Ken Sugimoto, MD, PhD¹, Yasuharu Tabara, PhD², Hiroshi Ikegami, MD, PhD³, Yasunori Takata, MD, PhD⁴, Yoshihisa Hironome, MD, PhD⁵, Kei Kamide, MD, PhD⁶, Katsuhiko Kohara, MD, PhD⁶, Masahiro Fukuda, MD, PhD⁷, Tomohiro Katsuya, MD, PhD^{8,9}, Haruhiko Osawa, MD, PhD⁸, Hiromi Rakugi, MD, PhD¹¹. ⁽¹⁾ Department of Geriatric and General Medicine, Osaka University Graduate School of Medicine, Suita, Japan ⁽²⁾ Center for Genomic Medicine, Kyoto University Graduate School of Medicine, Kyoto, Japan ⁽³⁾ Department of Endocrinology, Metabolism, and Diabetes, Kindai University Faculty of Medicine, Osaka-Sayama, Japan ⁽⁴⁾ Department of Diabetes and Molecular Genetics, Ehime University Graduate School of Medicine, Toon, Japan ⁽⁵⁾ Department of Health Promotion Sciences, Division of Health Sciences, Osaka University Graduate School of Medicine, Suita, Japan ⁽⁶⁾ Department of Regional Resource Management, Faculty of Collaborative Regional Innovation, Ehime University, Matsuyama, Japan ⁽⁷⁾ Fukuda Clinic, Osaka, Japan ⁽⁸⁾ Katsuya Clinic, Amagasaki, Japan ⁽⁹⁾ Department of Clinical Gene Therapy, Osaka University Graduate School of Medicine, Suita, (Japan)
- P 7 • Frailty and potential biomarkers of aging**
 Geeredy Bhanuprakash Reddy PhD¹, Tattari Shalini M.Sc¹, Mudili Sivaprasad M.Sc¹, Boiroju Naveen Kumar PhD² ⁽¹⁾ Department of Biochemistry, National Institute of Nutrition (ICMR), Hyderabad- 500007, India. ⁽²⁾ Department of Statistics, National Institute of Nutrition (ICMR), Hyderabad, (India)
- P 8 • Iron dyshomeostasis is associated with mitochondrial DNA alterations in skeletal muscle of sedentary high- and low-functioning older people**
 Anna Picca PhD^{1,2}, Riccardo Calvani, PhD^{1,2}, Robert Mankowski, PhD³, Hélio José Coelho-Junior, MSc^{1,4}, Roberto Falco MD^{1,2}, Roberto Bernabei, MD^{1,2}, Christiaan Leeuwenburgh, PhD⁵, and Emanuele Marzetti, MD, PhD^{1,2} ⁽¹⁾ Università Cattolica del Sacro Cuore, Teaching Hospital “Agostino Gemelli”, Rome, Italy ⁽²⁾ Fondazione Policlinico Universitario A. Gemelli, Rome, Italy ⁽³⁾ Department of Aging and Geriatric Research, Institute on Aging, Division of Biology of Aging, University of Florida, Gainesville, FL, USA ⁽⁴⁾ University of Campinas, Campinas-SP, (Brazil)
- P 9 • Novel Role of cardiac Troponin T in Skeletal Muscle Aging**
 Xin Feng, MD, PhD¹, Juan Dong, MD², Bo Feng, MD, PhD², Tan Zhang, MD, PhD² ⁽¹⁾ Departments of Otolaryngology, Wake Forest School of Medicine, Winston-Salem, NC, 27157 ⁽²⁾ Departments of Internal Medicine, Section on Gerontology and Geriatric Medicine, Wake Forest School of Medicine, Winston-Salem, NC, (USA)

BIOMARKERS AND IMAGING

- P 10 • Serum creatinine and cystatin C based index can be a screening biomarker for sarcopenia in older population**
 Sunny Singhal MD¹, Sumitabh Singh MD¹, Srikanth Mohta MD², Aparajit Ballav Dey MD¹, Avinash Chakrawarty MD¹ ⁽¹⁾ Department of Geriatric Medicine, All India Institute of Medical Sciences, Delhi, India; ⁽²⁾ Department of Internal Medicine, All India Institute of Medical Sciences, Delhi, (India)
- P 11 • Identification and Characterization of New Biochemical Markers for Sarcopenia**
 Henrotin Y^{1,2,3}, B Cordier¹, Labasse A¹, Vander Poelen S¹, C. Boileau¹, B Costes¹, K Lhote¹. ⁽¹⁾ Artialis Group SA, GIGA Tower, Avenue de l'hôpital, 4000 Liège; ⁽²⁾ Bone and Cartilage Research Unit, University of Liège, Arthropôle, Institute of Pathology, Sart-Tilman, 4000 Liège, Belgium; ⁽³⁾ Department of Physical Therapy and Rehabilitation, Vivalia, Princess Paola Hospital, Marche-en-Famenne, (Belgium)
- P 12 • Serum free testosterone levels are positively correlated with skeletal muscle mass in older women over 75 years old**
 Mitsutaka Yakabe MD, PhD¹, Sumito Ogawa MD, PhD¹, Taro Kojima MD, PhD¹, Taisaku Okumura², Shinya Takiyama², Yumi Umeda-Kameyama MD, PhD¹, Masahiro Akishita MD, PhD¹ ⁽¹⁾ Department of Geriatric medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan ⁽²⁾ Benesse Style Care Co., Ltd., Tokyo, (Japan)
- P 13 • Diagnostic validity of biochemical markers for the diagnosis of sarcopenia in adults. Systematic review**
 Juan C. Galvis R. Dr. Instructor Asociado, Jefe de Posgrado en Medicina de la Actividad Física y el Deporte. Fundación Universitaria de Ciencias de la Salud. Javier A. Velásquez M. Dr. Residente de 3o año, Medicina de la Actividad Física y el Deporte. Fundación Universitaria de Ciencias de la Salud. José F. Camargo V., Medicina de la Actividad Física y el Deporte. Fundación Universitaria de Ciencias de la Salud. (Colombia)
- P 14 • Diagnosing sarcopenia at the point of imaging care: Prospective integration of functional and opportunistic CT data**
 Patrick M. Kortebein MD ^(1,2), Anahit Petrosyan ⁽²⁾, Praman Fuangfa, MD ⁽²⁾, Lawrence Yao, MD ⁽³⁾, John Brock ⁽²⁾, Leon Lenchik MD ⁽⁴⁾, Robert D. Boutin MD ⁽²⁾ ⁽¹⁾ VA Mather, Sacramento, CA; ⁽²⁾ University of California Davis, School of Medicine, Sacramento, CA; ⁽³⁾ National Institutes of Health (NIH), Bethesda, MD; ⁽⁴⁾ Wake Forest University School of Medicine, Winston Salem, NC (USA)
- P 15 • A systematic review of the secretome of skeletal muscle cells**
 Antoine Florin, PhD student¹, Cécile Lambert, PhD¹, Christelle Sanchez, PhD¹, Ali Mobasher, PhD^{1,2,3} ⁽¹⁾ Bone and Cartilage Research Unit, Arthropôle Liège, University of Liège, CHU Sart-Tilman, Belgium ⁽²⁾ Department of Physical Therapy and Rehabilitation, Princess Paola Hospital, Vivalia, Marche-en-Famenne, Belgium ⁽³⁾ Artialis S.A., Tour Giga, level 3, CHU Sart-Tilman, Liège, Belgium ⁽⁴⁾ Department of Regenerative Medicine, State Research Institute Centre for Innovative Medicine, Vilnius, Lithuania. ⁽⁵⁾ Arthritis Research UK Centre for Sport, Exercise and Osteoarthritis, Queen's Medical Centre, Nottingham, (UK)
- P 16 • Assessment of Visceral Adipose Tissue by MRI and BIA**
 O Chaudry University of Erlangen-Nürnberg, Institute of Medical Physics Alexandra Grimm, University of Erlangen-Nürnberg, Institute of Medical Physics, Erlangen, Germany Andreas Friedberger, University of Erlangen-Nürnberg, Institute of Medical Physics, Erlangen, Germany Wolfgang Kemmler, University of Erlangen-Nürnberg, Institute of Medical Physics, Erlangen, Germany Simon von Stengel, University of Erlangen-Nürnberg, Institute of Medical Physics, Erlangen, Germany Klaus Engelke, University of Erlangen-Nürnberg and University Hospital, Department of Medicine 3, Erlangen, (Germany)
- P 17 • On the definition of sarcopenia in the presence of aging and obesity**
 Jennifer Linge, Olof Dahlqvist Leinhard AMRA Medical AB Address: Badhusgatan Linköping (Sweden)

P 18 • Associations of 3-methylhistidine with frailty status in the FRAILOMIC initiative

Bastian Kochlik MSc^{1,2}, *Karine Pérès* PhD³, *Catherine Féart* PhD³, *David Gomez-Cabrero* PhD⁴, *Leocadio Rodriguez-Manas* MD, PhD⁵, *Tilman Grune* MD, PhD^{1,2,6,7}, *Daniela Weber* PhD^{1,2,*} ⁽¹⁾ Department of Molecular Toxicology, German Institute of Human Nutrition Potsdam-Rehbruecke (DIfE), Nuthetal, Germany ⁽²⁾ NutriAct-Competence Cluster Nutrition Research Berlin-Potsdam, Nuthetal, Germany ⁽³⁾ Inserm, Bordeaux Population Health Research Center, UMR 1219, University Bordeaux, 33000 Bordeaux, France ⁽⁴⁾ Unit of Computational Medicine, Karolinska Institutet, Stockholm, Sweden ⁽⁵⁾ Division of Geriatrics, Hospital Universitario de Getafe, Getafe, Spain ⁽⁶⁾ German Center for Diabetes Research (DZD), Munich-Neuherberg, Germany ⁽⁷⁾ German Center for Cardiovascular Research (DZHK), Berlin, Germany ^(*) on behalf of the FRAILOMIC Initiative (Germany)

P 19 • Specific Profiles Of Circulating Mediators Characterize Older Persons With Physical Frailty And Sarcopenia: a multiblock PLS-DA approach

Riccardo Calvani, PhD^{1,2}, *Anna Picca*, PhD^{1,2}, *Federico Marini*, PhD², *Alessandra Biancolillo*, PhD², *Jacopo Gervasoni*, PhD², *Silvia Persichilli*, PhD², *Aniello Primiano*, PhD², *Francesco Landi*, PhD^{1,2}, *Roberto Bernabei*, PhD^{1,2}, *Emanuele Marzetti*, PhD^{1,2} ⁽¹⁾ Università Cattolica del Sacro Cuore, Teaching Hospital "Agostino Gemelli", Rome, Italy ⁽²⁾ Fondazione Policlinico Universitario A. Gemelli, Rome, Italy ⁽³⁾ Department of Chemistry, 'Sapienza' University of Rome, Rome, (Italy)

P 20 • Specific patterns of circulating amino acids characterizes older persons with different types of frailty

Matteo Tosato, MD, PhD^{1,2}, *Riccardo Calvani*, PhD^{1,2}, *Anna Picca*, PhD^{1,2}, *Federico Marini*, PhD², *Alessandra Biancolillo*, PhD², *Jacopo Gervasoni*, PhD², *Silvia Persichilli*, PhD², *Francesco Landi*, MD, PhD^{1,2}, *Roberto Bernabei*, MD, PhD^{1,2}, *Emanuele Marzetti*, MD, PhD^{1,2} ⁽¹⁾ Università Cattolica del Sacro Cuore, Teaching Hospital "Agostino Gemelli", Rome, Italy ⁽²⁾ Fondazione Policlinico Universitario A. Gemelli, Rome, Italy ⁽³⁾ Department of Chemistry, 'Sapienza' University of Rome, Rome, (Italy)

EPIDEMIOLOGY

P 21 • Effects of multimorbidity and frailty on functional disability in individuals aged 80 years or older

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P 22 • Frailty and Sarcopenia as risk factors for death among Brazilian older adults: a 10 year follow-up

Jair Lício Ferreira Santos PhD⁽¹⁾, *Yeda Aparecida de Oliveira Duarte* PhD⁽²⁾, *Tiago da Silva Alexandre* PhD⁽³⁾, *Alejandra Andrea Roman Lay*⁽⁴⁾, *Carla Ferreira do Nascimento*⁽⁴⁾ Faculdade de Medicina de Ribeirão Preto - USP Rua J, 510, Condomínio Quinta da Boa Vista Brazil Ribeirao Preto (Brazil)

P 23 • Sarcopenia is associated with functional capacity, falls and depressive symptoms in individuals aged 80 years or older from a middle-income country

F Borim Faculty of Medical Sciences - University of Campinas Rua Tessália Vieira de Camargo, 126 – Cidade Universitária Zeferino Vaz Brazil *Campinas São Paulo* *Juliana Carvalho Segato Marincolo* - Faculty of Medical Sciences - University of Campinas Anita Liberalesso Neri - Faculty of Medical Sciences - University of Campinas *Ivan Aprahamian* - Faculty of Medicine of Jundiá and Faculty of Medicine - University of São Paulo *Samila SathlerTavares Batistoni* - School of Arts, Science and Humanities (EACH) - University of São Paulo *Monica Sanches Yassuda* - School of Arts, Science and Humanities (EACH) - University of São Paulo (Brazil)

P 24 • Evaluating components relevant to risk screening for frailty/malnutrition in US national surveys of older adults

*Jaime Gahche*¹ *Mary Weiler*² *Mary Beth Arensberg*³ *Johanna T. Dwyer*^{1,3} ⁽¹⁾ National Institutes of Health, Office of Dietary Supplements ⁽²⁾ Abbott Nutrition Division of Abbott ⁽³⁾ Frances Stern Nutrition Center, Tufts Medical Center and Tufts University Schools of Medicine, Friedman School of Nutrition Science and Policy and Jean Mayer USDA Human Nutrition Research Center on Aging (USA)

P 25 • Prevalence of sarcopenia among prostate cancer patients in Korea

Kyung Eun Nam, MD, *Byung Joo Lee*, MD, *Min Suk Kang*, MD, *Joo Hyun Park*, MD, PhD, *Jong In Lee*, MD, PhD Department of Rehabilitation Medicine, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea (Korea)

P 26 • EWGSOP 2 versus EWGSOP 1: impact on the prevalence of sarcopenia and its outcomes

*Locquet Médéa*¹ *Beaudart Charlotte*¹, *Petermans Jean*², *Reginster Jean-Yves*¹, *Bruyère Olivier*¹ ¹ World Health Organization Collaborating Center for Public Health Aspects of Musculoskeletal Health and Ageing, Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium. ² Geriatrics Department, CHU of Liège, (Belgium)

P 27 • Determinants and Health Consequences of a Rapid Muscle Health Decline in Older adults from the SarcoPhAge study

*Locquet Médéa*¹, PhD Candidate, *Charlotte Beaudart*¹, PhD, *Jean-Louis Croisier*, PhD^{2,3}, *Jean-Yves Reginster*¹, MD, PhD, *Olivier Bruyère*^{1,3}, PhD¹ - Department of Public Health, Epidemiology and Health Economics, University of Liège, Liège, Belgium ² - Laboratory of Human Motion Analysis, University of Liège, Liège, Belgium ³ - Department of Rehabilitation and Sport Sciences, University of Liège, Liège, (Belgium)

P 28 • Transfer of nursing home residents to emergency departments : analysis of iatrogeny cases within FINE cohort

Cambon Amandine ^{c2}, *McCabridge Cécile* ^{ac3}, *Cool Charlene* ^{cd4}, *Magre Elodie* ^{ac5}, *Qassem Soraya* ^{ac6}, *Laborde Charlotte* ^{c7}, *Rolland Yves* ^{ad8}, *Perrin Amélie* ^{a9}, *Néda Tavassoli* ^{a10}, *Céline Mathieu* ^{ac} Toulouse University Hospital (France)

P 29 • Aging and health status: Have Chilean people worst health status than Spanish people? Comparative results of DIABDEM Project

*Bozanic A.*¹, *Hidalgo-Liberona N.*², *Formiga F.*³ ⁽¹⁾ PhD⁽²⁾ Medicine and Translational Research, Barcelona University, Barcelona, Spain. ⁽²⁾ PhD(c) Food Science and Nutrition, Barcelona University, Barcelona, Spain. ⁽³⁾ Geriatric Department, Bellvitge University Hospital, Barcelona University, Barcelona, (Spain)

P 30 • Association between sarcopenia and obesity elavuated through four different methods in socially active elderly women

*Valéria Baccarin Ianiski*¹, *Karen Mello de Mattos Margutti*², *Rita Mattiello*³, *Carla Helena Augustin Schwanke*¹ Graduate Program in Biomedical Gerontology, School of Medicine, Pontifical Catholic University of Rio Grande do Sul (PUCRS); ²Nutrition Course, Area of Knowledge of Life Science, University of Caxias do Sul (UCS). ³Graduate Program in Medicine and Health Science, School of Medicine, Pontifical Catholic University of Rio Grande do Sul (PUCRS) (Brazil)

P 31 • Assessment of body composition in elderly adults without undernutrition of an ambulatory rehabilitation unit

Marcela Arias Barredo MD, PhD¹, *Karen Urria LD*², *Pablo Gallardo MD, PhD*³ ⁽¹⁾ Physician Chef, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile, Chile ⁽²⁾ Nutritionist, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile, Chile ⁽³⁾ Executive, National Institute of Geriatrics, Santiago de Chile, (Chile)

P 32 • Social Determinants of Health and Frailty are Associated with All-cause Mortality in Older Adults

Emmanuel González-Bautista, M. en C., ¹ *Betty Manrique-Espinoza*, D. en C., ^{2*} *J. Alberto Ávila-Funes*, PhD, ^{4,5} *Nirmala Naidoo*, PhD, ³ *Paul Kowal*, PhD, ^{3,6,7} *Somnath Chatterji*, PhD, ³ *Aarón Salinas-Rodríguez*, M. en C., ^{2,1} Facultad de Medicina. Universidad Autónoma del Estado de México. Toluca, México. ² Evaluation and Surveys Research Center. National Institute of Public Health, Cuernavaca, Mexico. ³ World Health Organization, Geneva, Switzerland. ⁴ Servicio de Geriatría. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Ciudad de México, México. ⁵ Univ. Bordeaux, Inserm, Bordeaux Population Health Research Center, UMR 1219, F-33000 Bordeaux, France. ⁶ University of Newcastle, Research Centre for Generational Health and Ageing, Newcastle, Australia. ⁷ Chiang Mai University, Research Institute for Health Sciences, Chiang Mai, (Thailand)

P 33 • Associations between nutrient intakes and sarcopenia in older men: The Concord Health and Ageing in Men Project

Vasant Hirani Arpita Das Nutrition and Dietetics group, School of Life and Environmental Sciences Charles Perkins Centre, University of Sydney, New South Wales, Australia and ARC Centre of Excellence in Population Ageing Research, University of Sydney, New South Wales Australia, *Robert G. Cumming* School of Public Health, University of Sydney and ARC Centre of Excellence in Population Ageing Research, University of Sydney, New South Wales Australia, *Vasi Naganathan* Centre of Education and Research on Ageing, University of Sydney and Concord Hospital, New South Wales, Australia, *Fiona Blyth* Centre of Education and Research on Ageing, University of Sydney and Concord Hospital, New South Wales, Australia, *Vasant Hirani* Nutrition and Dietetics group, School of Life and Environmental Sciences Charles Perkins Centre, University of Sydney, New South Wales, Australia and ARC Centre of Excellence in Population Ageing Research, University of Sydney, New South Wales (Australia)

P 34 • Frailty and its association with the Mediterranean diet, life space, social participation in Chinese older people

Rick Yiu Cho Kwan Gerontological Nursing, School of Nursing, The Hong Kong Polytechnic University Daphne Sze Ki CHEUNG, Gerontological Nursing, School of Nursing, The Hong Kong Polytechnic University Shirley Ka Lai LO, Gerontological Nursing, School of Nursing, The Hong Kong Polytechnic University Lily Yuen Wah HO, Gerontological Nursing, School of Nursing, The Hong Kong Polytechnic University Patrick Pui Kin KOR, Gerontological Nursing, School of Nursing, The Hong Kong Polytechnic University Justina Yat Wa LIU, Gerontological Nursing, School of Nursing, The Hong Kong Polytechnic University (Hong Kong)

P 35 • Risk factors of frailty in the Costa Rican population

José E. Picado-Ovares ^{1,2} ⁽¹⁾ Hospital Nacional de Geriatría y Gerontología, San José, San José Costa Rica. ⁽²⁾ Universidad de Costa Rica, San Pedro, San José, (Costa Rica)

P 36 • Consequences of frailty in the older population of Costa Rica

José E. Picado-Ovares ^{1,2} ⁽¹⁾ Hospital Nacional de Geriatría y Gerontología, San José, San José Costa Rica. ⁽²⁾ Universidad de Costa Rica, San Pedro, San José, (Costa Rica)

P 37 • Sarcopenic obesity is associated with obstructive sleep apnea: a population-based study

Ronaldo D Piovezan ^{1*} *Camila Hirotsu*¹, *Renato Moizinho*¹, *Helton de Sá Souza*¹, *Vania D'Almeida*¹, *Sergio Tufik*¹, *Dalva Poyares*¹ ¹. Department of Psychobiology, Universidade Federal de Sao Paulo, Sao Paulo, (Brazil)

P 38 • Physical Frailty and the Risk of Dementia in a Longitudinal Cohort of Older Adults

Márlon Aliberti MD⁽¹⁾; Irena Cencer, MA⁽²⁾; Kenneth Covinsky, MD, MPH^(2,3)⁽¹⁾ University of Sao Paulo Medical School, Brazil. ⁽²⁾ University of California, San Francisco, US ⁽³⁾ Veterans Affairs Medical Center, San Francisco, (USA)

P 39 • Elderly Brazilian Malnutrition's Deaths Between 2006-2016

Claudia Cipriano Vidal Heluany MD, MSc¹, Gabriela Serafim Keller, MD¹, Luan Pedro Santos Rocha², Isadora Zaniboni², Gabriel Cipriano Vidal Heluany, MD³⁽¹⁾ Geriatric Department, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciúma, SC, Brazil ⁽²⁾ Medicine's Student, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciúma, SC, Brazil

P 40 • Inflammatory biomarker levels are associated with self-reported major mobility disability: A pooled analysis

Daniel P. Beavers, PhD¹; Todd M. Manini, PhD²; Walter T. Ambrosius, PhD¹; Stephen Kritchevsky, PhD³; Thomas Gill, MD⁴; Stephen Anton, PhD⁵; Mary McDermott, MD⁶; Anne Newman, MD⁶; Russell Tracy, PhD⁷; Abby King, PhD⁸; Roger Fielding, PhD⁹; Marco Pahor, MD² ¹ Department of Biostatistics and Data Science, Division of Public Health Sciences, Wake Forest School of Medicine, Winston-Salem, NC, USA ² Department of Aging and Geriatric Research, College of Medicine, University of Florida, Gainesville, FL, USA ³ Section on Gerontology and Geriatric Medicine, Department of Internal Medicine, Sticht Center for Healthy Aging and Alzheimer's Prevention, Winston-Salem, NC, USA ⁴ Department of Internal Medicine, Yale University School of Medicine, New Haven, CT, USA. ⁵ Department of Medicine, General Internal Medicine and Geriatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA. ⁶ Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, USA. ⁷ Department of Pathology & Laboratory Medicine, Larner College of Medicine, University of Vermont, Burlington, VT, USA. ⁸ Department of Health Research and Policy, School of Medicine, Stanford University, Palo Alto, CA, USA. ⁹ Nutrition exercise physiology and sarcopenia laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging Tufts University, Boston, MA, (USA)

P 41 • Impact of chronotype and habitual physical activity with sarcopenia

H Park, Dept. of Health Care Science, Dong-A University, Busan, (South Korea)

P 42 • Is Inadequate Health Numeracy Associated with Frailty in Male Older Veterans?

Aakashi Shah^{1,2}, Pravallika Bharatula^{1,2}, Dhanya Baskaran^{1,2}, Juliana Ferri-Guerro^{1,2}, Victor Cevallos^{1,2}, Raquel Aparicio-Ugarriza^{1,2}, and Jorge G. Ruiz^{2,3}⁽¹⁾ Department of Public Health Sciences, University of Miami Miller School of Medicine. ⁽²⁾ Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE). ⁽³⁾ Department of Medicine, University of Miami Miller School of Medicine (USA)

P 43 • Is Graph Literacy Related to Frailty in Male Older Veterans?

Dhanya Baskaran^{1,2}, Aakashi Shah^{1,2}, Pravallika Bharatula^{1,2}, Douglas Salguero^{1,2}, Victor Cevallos^{1,2}, Raquel Aparicio-Ugarriza^{1,2}, and Jorge G. Ruiz^{2,3}⁽¹⁾ Department of Public Health Sciences, University of Miami Miller School of Medicine. ⁽²⁾ Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE). ⁽³⁾ Department of Medicine, University of Miami Miller School of Medicine (USA)

P 44 • Association of frailty in the elderly with lower serum cholesterol level and other cardiovascular risk factors

Jong-Hwan Park¹, Hyuntae Park²⁽¹⁾ Institute of Convergence Bio-Health (ICBH), Dong-A University. ⁽²⁾ Department of Health Care and Science, Dong-A University, Busan, (South Korea)

COGNITIVE FRAILTY

P 45 • Frailty as a predictor of cognitive disorders: a systematic review and meta-analysis

Marcus Kiiti Borges⁽¹⁾, Marco Canevelli⁽²⁾, Matteo Cesari⁽³⁾, Ivan Arahamian⁽⁴⁾.¹ Department of Geriatrics and Psychiatry, "Ambulatório de Alterações Comportamentais em Idosos" (ACID), Faculty of Medicine, University of São Paulo (FMUSP), São Paulo, Brazil ² Department of Human Neuroscience, Sapienza University, Rome, Italy ³ "Fondazione (IRCCS) Ca' Granda - Ospedale Maggiore Policlinico", University of Milan, Milan, Italy ⁴ Geriatrics & Psychiatry division, Department of Internal Medicine, Faculty of Medicine of Jundiá, Jundiá, (Brazil)

P 46 • The relationship between frailty and mild cognitive impairment in the elderly: a systematic review

Natália Oiring de Castro Cezar, MS⁽¹⁾, Marcus Kiiti Borges, MD, MS⁽²⁾, Alaise Silva Santos de Siqueira, MS⁽²⁾, Mônica Sanches Yassuda, PhD^(3,4), Matteo Cesari, MD, PhD⁽⁵⁾, Ivan Arahamian, MD, MS, PhD^(2,6) ¹ Department of Physical Therapy, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil. ² Department and Institute of Psychiatry, Faculty of Medicine, University of São Paulo, São Paulo, Brazil. ³ School of Arts, Sciences and Humanities, University of São Paulo, São Paulo, Brazil. ⁴ Department of Neurology, Faculty of Medicine, University of São Paulo, São Paulo, Brazil. ⁵ "Fondazione (IRCCS) Ca' Granda - Ospedale Maggiore Policlinico", University of Milan, Milan, Italy. ⁶ Department of Internal Medicine, Faculty of Medicine of Jundiá, Jundiá, (Brazil)

P 47 • Cognitive Frailty: results from SABE Colombia Study

Estephania Chacón-Valenzuela^{1,2}, Ely Morros-González^{1,2}, María Paula Vargas-Beltrán^{1,2}, Luis Carlos Venegas-Sanabria^{1,2}, Diego Chavarro-Carvajal^{1,2}, Carlos Alberto Cano-Gutiérrez^{1,2}. Semillero de Neurociencias y Envejecimiento, Aging Institute and Faculty of Medicine, Pontificia Universidad Javeriana, Bogotá, Colombia ² Geriatric Unit, Hospital Universitario San Ignacio and Pontificia Universidad Javeriana, Bogotá, (Colombia)

P 48 • Sex difference of the tendency of food habit of cognitive frail patient and caregiver

Yumi Umeda-Kameyama, Kiyoshi Yamaguchi, Mitsutaka Yakabe, Taro Kojima, Yasuhiro Yamaguchi, Sumito Ogawa, Masahiro Akishita Department of Geriatric Medicine, The University of Tokyo (Japan)

P 49 • Sarcopenia and cognition in the oldest old: data from the FIBRA study in Brazil

Mônica Sanches Yassuda - University of São Paulo, State University of Campinas Gabriela Cabetti Cipolli - University of São Paulo Flávia Arbex Borim - State University of Campinas André Fattori - State University of Campinas Ligiana Pires Corona - State University of Campinas Anita Liberalleso Neri - State University of Campinas Ivan Arahamian - Jundiá Medical School (Brazil)

P 50 • Physical Frailty and Cognitive Functioning in Non-demented Community-dwelling Older Adults: China Comprehensive Geriatric Assessment Study

Lina Ma, Li Zhang, Fei Sun, Yun Li, Zhe Tang Department of Geriatrics, Xuanwu Hospital, Capital Medical University, China National Clinical Research Center for Geriatric Disorders Beijing (China)

P 51 • Could Delirium be a Manifestation of Sympathetic Over-drive?

Elaine Shanahan-University Hospital Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, Ireland Sheila Carew-University Hospital Limerick, Ireland Aine Costelloe-University Hospital Limerick, Ireland Tina Sheehy-University Hospital Limerick, Ireland Catherine Peters-University Hospital Limerick, Ireland Tom Kiernan-University Hospital Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, Ireland Declan Lyons-University Hospital Limerick, Ireland Margaret O'Connor-University Hospital Limerick, Ireland and Graduate Entry Medical School School, University of Limerick, (Ireland)

P 52 • Study of cognitive frailty in a health-seeking population

Meenal Thakral Junior Resident, Pursuing MD, Avinash Chakravarthy MD, Aparajit Ballav Dey MD⁽¹⁾ Department of Geriatric Medicine, AIIMS, (India)

P 53 • Lower Cerebral Volumes in Frail versus Robust Non-Demented Elderly

A Fattori, Faculty of Medical Sciences of Unicamp - Campinas State University Debora Lee Vianna Paulo^{1a}, Camila Vieira de Ligo Teixeira^{2c}, Amanda Veigas Sardelia^{2b}, Amanda Ximenes Reis^{3a}, Maria Fernanda Bottino Roma^{4a}, Heitor Moreno Junior^{5a}, Paula Teixeira Fernandes^{6b}, André Fattori^{7a}.^a Gerontology Program, Faculty of Medical Science, University of Campinas (UNICAMP) ^b Faculty of Physical Education - UNICAMP ^c Neurology Department - UNICAMP (Brazil)

P 54 • Imaging and frailty

Mathieu Maltais, Philippe de Souto Barreto, Yves Rolland & Bruno Vellas Gérontopôle of Toulouse (France)

P 55 • Frailty Mediates Senility in Mexican-Americans

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FUNCTIONAL ASSESSMENT

P 56 • Comparison of diagnostic criteria for identification of sarcopenic obesity in adults with knee osteoarthritis

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P 57 • Evaluation of Sleep Disorders and Accompanying Factors Evaluation of Sleep Disorders and Accompanying Factors

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P 58 • Functional assessment of the workability, functional decline and frailty in the elderly subjects

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P 59 • Findings of a Systematic Review of Psychometric Properties for Daily Activities (ADL) Questionnaires for Older Community-Dwelling Persons: A Systematic Review

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P 60 • Correlation between clinical questionnaires and gait parameters with foot pressure patterns in patients with knee osteoarthritis

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P 61 • Investigation of the influence of the interaction between skeletal muscle mass and fat mass on muscle strength and performance in Japanese older people

Kiyoshi Tozaki¹, Kamide Naoto^{1,2} Takuya Maeda³ Tetsuharu Nakazono⁴, Sakamoto MikP, Haruhiko Sato^{1,2} Yoshitaka Shiba², Naonobu Takahira^{1,2 (1)} Graduate School of Medical Sciences, Kitasato University, Japan ⁽²⁾School of Allied Health Science, Kitasato University, Japan ⁽³⁾Department of Rehabilitation, Kitasato University East Hospital, Japan ⁽⁴⁾Department of Rehabilitation, Kitasato University Hospital, (Japan)

P 62 • Life-Space Mobility As a Clinical Marker for Physical Fitness in Community-Dwelling Older Adults: Gender Disparity Observations

Tay EL*, Ng YS*, Latib A*, Mah SM*, Tay L* *Sengkang General Hospital (Singapore)

P 63 • Developing a novel tool for the assessment of physical frailty in older adults with a diagnosis of psychiatric disorder

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P 64 • Exploring how best to conceptualize and measure frailty indicators in the context of psychiatric disorders: Results from two Delphi studies

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P 65 • Congenital, untreated, severe isolated growth hormone deficiency predisposes or protects against frailty and sarcopenia?

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P 66 • Remotely captured daily mobility pattern in age-related sarcopenia. A pilot clinical study

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P 67 • Functional reserve index determined through balance rehabilitation unit: follow-up of older adults with balance alteration

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P 68 • How young is your Muscle? Functional Assessment with Ageing

Swati Banerjee^{1,2}, Loubna Imrani^{3,4}, Sofiane Boudaoud^{3,4}, Kiyoka Kinugawa^{1,2,3,1} Sorbonne University, Paris, France. ² CNRS, UMR 8256 Biological Adaptation and Aging, Sorbonne University, Paris, France. ³ Functional Exploration Unit of older patients, University Hospitals Pitié-Salpêtrière-Charles Foix. DHU FAST, Assistance Publique Hôpitaux de Paris (APHP), Paris, France. ⁴ Laboratoire Biomécanique et Bioingénierie UMR 7338, Université de technologie de Compiègne, Sorbonne Université (France)

P 69 • Accuracy of inertial sensors vs optical motion capture system for analysis of movement - preliminary results

Jansen Atier Estrazulas^{1 (2)}, Fernanda Gonçalves Civitella^{1 (1)}, Miburge Bolivar Gois-Junior^{1 (1)}, Jorge Carreño^{1 (1)}, Inaê Caroline Gadotti^{1 (1)}, Jaisson Agne Estrázulas^{2 (2)} & Edgar Ramos Vieira^{1 (1)} ¹Department of Physical Therapy, Florida International University, Miami, Florida, USA. ²School of health, Amazonas State University, Manaus, Amazonas, (Brazil)

P 70 • An innovative platform based on wearable sensor to quantify physical frailty phenotypes

He Zhou PhD; Bijan Najafi, PhD Interdisciplinary Consortium on Advanced Motion Performance (iCAMP), Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX, (USA)

P 71 • Prognostic value of a rapid sarcopenia measure in acutely ill older adults

Márlon J. R. Aliberti MD^{1 (1)}, Claudia Szelej, MD, PhD^{2 (2)}, Kenneth E. Covinsky, MD, MPH^{3,4 (3,4)}, Sei J. Lee, MD, MAS^{3,4 (3,4)}, Wilson Jacob-Filho, MD, PhD^{1 (1)}, Claudia K. Suemoto, MD, PhD, MSc^{1,2, (1)} Division of Geriatrics, University of Sao Paulo Medical School, Brazil. ⁽²⁾ Center for Clinical and Epidemiological Research, Hospital Universitario, University of Sao Paulo, (Brazil).

P 72 • Physical Function predicts Sarcopenia: Results from a Representative Population-Based Cross-sectional Study in Tonantins, Amazonas

Alex Lima¹ Elvio Gouveia^{2,3,4}, Andreas Ihle^{4,5} Mathias Kliege^{4,5}, Jansen Estrázulas⁶, Bruna Gouveia^{3,4,7,8}, Adilson Marques^{9,10}, Fátima Baptista^{9,10} ¹Centro Universitário do Norte – Uninorte; ² Department of Physical Education and Sport, University of Madeira, Funchal, Portugal; ³ Madeira Interactive Technologies Institute, Funchal, Portugal; ⁴ Center for the Interdisciplinary Study of Gerontology and Vulnerability, University of Geneva, Switzerland; ⁵ Department of Psychology, University of Geneva, Geneva, Switzerland; ⁶ Department of Physical Therapy, Florida International University, Miami, Florida, USA; ⁷ Health Administration Institute, Secretary of Health of the Autonomous Region of Madeira, Funchal, Portugal; ⁸ Escola Superior de Enfermagem São José de Cluny, Funchal, Portugal; ⁹ Centro Interdisciplinar de Estudo da Performance Humana, Faculdade de Motricidade Humana, Universidade de Lisboa, Lisboa, Portugal; ¹⁰ Centro de Investigação em Saúde Pública, Escola Nacional de Saúde Pública, Universidade Nova de Lisboa, Lisboa, (Portugal)

CLINICAL TRIALS

P 73 • Exercise rehabilitation in older, sarcopenic and frail patients

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P 74 • The FORCE trial: Focus on Reducing Dose-Limiting Toxicities in Colon Cancer with Resistance Exercise (RT): Baseline Functional Status

¹Bette Caan, ²Kathryn H. Schmitz, ³Elizabeth M. Brighton, ³Justin C. Brown, ⁴Kristin L. Campbell, ¹Adrienne Castillo, ¹Elizabeth M. Cespedes Feliciano, ¹Valerie S. Lee, ¹Charles P. Quesenberry, ⁵Sara K. Quinney, ¹Barbara Sternfeld, ²Renate M. Winkels, ³Jeffrey A. Meyerhardt ¹Kaiser Permanente of Northern California, Oakland, CA, ²Penn State Cancer Institute, Penn State College of Medicine, Hershey, PA, ³Dana Farber Cancer Institute, Boston, MA; ⁴University of British Columbia, Vancouver, Canada; ⁵Indiana University School of Medicine, Indianapolis, IN (USA)

P 75 • The effects of aerobic, resistance, and combined training for the management of frailty in older adults with subjective cognitive impairment: A randomized controlled trial

Chi Hsien Huang MD, MSc^{1,2,3,4}, Hiroyuki Umegaki, MD, PhD², Tomoharu Kitada, PhD¹, Aiko Inoue, PhD¹, Taeko Makino, PhD¹, Takahiro Hayashi, PhD¹, Hiroyuki Shimada, PhD⁵, Masafumi Kuzuya, MD, PhD^{1,2 (1)} Institute of Innovation for Future Society, Nagoya University, Nagoya, Japan ⁽²⁾ Department of Community Healthcare and Geriatrics, Graduate School of Medicine, Nagoya University, Nagoya, Japan ⁽³⁾ Department of Family Medicine, E-Da Hospital, I-Shou University, Kaohsiung City, Taiwan ⁽⁴⁾ School of Medicine for International Students, I-Shou University, Kaohsiung City, Taiwan ⁽⁵⁾ Department of Preventive Gerontology, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Obu, (Japan)

CLINICAL TRIALS AND THERAPEUTICS

P 76 • Glutamine supplementation for urinary incontinence: a prospective, randomized controlled, double-blind study

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P 77 • Design, Methods and baseline characteristics of the Fit-Joint Pilot RCT of A Multi-modal Intervention in Frail Patients with Osteoarthritis

Alexandra Papaioannou MD², Ahmed M Negm MD, MSc, PhD^{1,3}, Courtney C Kennedy PhD¹, George Ioannidis PhD¹, Olga Gajic-Veljanoski PhD¹, Lehana Thabane PhD⁴, Stephanie Atkinson PhD⁵, Mitchell Winemaker MD⁶, Julie Richardson PhD³, Jonathan D Adachi MD², For the Fit Joint Investigators - McMaster University (Canada)

P 78 • Evaluation of safety and efficacy of BIO101, a new investigational drug for Sarcopenia: a double-blind, placebo controlled, randomized clinical trial

Waly D'ioh¹, Cendrine Tourette¹, Carole Margalef¹, René Lafont², Philippe Dupont¹, Pierre Dilda¹, Stanislas Veillet¹, Susanna Del Signore³ and Samuel Agus¹ Biophysit, UMP – BC9, 4 place Jussieu, 75005 Paris, France ² Sorbonne Universités, UPMC Univ Paris 06, CNRS - Institut de Biologie Paris Seine (BIOISPE), 75005 Paris, France ³ Bluecompanion Ltd, London, (UK)

P 79 • Virtual Online Communities for Aging Life Experience (VOCALE)

Oleg Zaslavsky, PhD¹, Annie Chen, PhD², Andrew Teng², Shih-Yin Lin PhD³, Soojeong Han¹, George Demiris, PhD⁴ ⁽¹⁾ School of Nursing, University of Washington, Seattle, WA, USA ⁽²⁾ Biomedical Informatics and Medical Education, University of Washington, Seattle, WA, USA ⁽³⁾ College of Nursing, New York University, New York, NY, USA ⁽⁴⁾ School of Nursing, University of Pennsylvania, Philadelphia, PA, (USA)

PHYSICAL FRAILTY AND AGE-RELATED BODY COMPOSITION MODIFICATIONS

P 80 • Prevalence of sarcopenia among healthy ambulatory subjects: the sarcopenia begins from 45 years

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P 81 • Prevalence of osteo-sarcopenia and osteo-sarcopenia obesity in healthy ambulatory subjects older than 45 years in France

Christophe de Jaeger¹, MD, Elena Voronka¹, MD, Carla Lamberti¹, MD, Saskia Kruiskamp¹, Patrik Cherin², MD, PhD¹ : Institut de médecine et physiologie de la longévité (IDJ), 4 rue de Galliera, 75116 Paris, France ² : Service de Médecine Interne 2, Bâtiment IE3M, CHU Pitié-Salpêtrière, 47 bd de l'hôpital 75013 Paris, (France)

P 82 • Weight loss and incidence of disability among the oldest old: the fibra study longitudinal findings

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P 83 • Preserved physical fitness is associated with lower 1-year mortality in frail elderly patients with a severe comorbidity burden

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P 84 • Sarcopenia, obesity, and sarcopenic obesity prevalence and respective body composition in middle-aged women

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P 85 • The role of bioelectrical impedance analysis (BIA) in identification of sarcopenia. comparison among different classifications

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P 86 • The assessment of pain in older frail sarcopenic and osteosarcopenic subjects

Longobucco Yari⁽¹⁾, Tagliaferri Sara⁽¹⁾, Adorni Elisa⁽¹⁾, Benedetti Chiara⁽¹⁾, Pessina Michele⁽¹⁾, Lauretani Fulvio^(1,2), Maggio Marcello^(1,2) ¹. Dept. Medicine and Surgery, University of Parma, Parma, Italy. ² Frailty and Multimorbidity Lab, Geriatric Clinic Unit, University-Hospital of Parma, Parma, (Italy)

P 87 • High Lipid Accumulation Product and low estimated Glucose Disposal Rate indicate increased cardio-metabolic risk and decreased insulin sensitivity in postmenopausal women with sarcopenic obesity

Eleonora Poggiogalle¹, Carla Lubrano¹, Lucio Gnessi¹, Stefania Mariani¹, Mikiko Watanabe¹, Andrea Lenzi¹, Lorenzo Maria Donini¹ - Sapienza University, Rome, (Italy)

P 88 • Association between skeletal muscle mass and arterial stiffness in frailty older people

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P 89 • Sarcopenia and Related Factors in Hospitalized Patients

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P 90 • Comparing SARC-F with SARC-CalF to screen sarcopenia in community living older adults

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P 91 • Performance of SARC-F in Regard to Sarcopenia Definitions, Muscle Mass and Functional Measures

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P 92 • Nutritional status, sarcopenia and frailty in nursing-home residents - Prevalence and relationships

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P 93 • The style of life in functional health of elderly participants in unati-am health projects and quality of life

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P 94 • Changes in muscle mass?strength and function with age among community elderly in china ?A longitudinal Study with 4 years Follow-up

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ANIMAL MODELS

P 95 • MBNL1-associated mitochondrial dysfunction and apoptosis in C2C12 myotubes and mouse skeletal muscle

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NUTRITION AND AGING

P 96 • The influence of midlife weight change on cognitive impairment in old age: The Singapore Chinese Health Study

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P 97 • Vitamin D in relation to incident sarcopenia and changes in muscle parameters among older adults: the KORA-Age study

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P 98 • Association of nutrients intake and sarcopenia in Brazilian older adults

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P 99 • The Role of Biological Sex on Nutritional Habits and Muscular Health among Middle-Aged, Healthy Adults

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P 100 • The role of nutrition in the development of chronic diseases amongst elderly people

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

P 101 • Nutritional Therapy, multiprofessional team and nutritional needs

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P 102 • Alcohol and elderly sarcopenia, an underestimated problem

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P 103 • How effective is espen criteria for nutrition screening

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P 104 • A study of physical characteristics and nutrition intake status of the prefrail elderly - the Nagoya Longitudinal Study for Healthy Elderly

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P 105 • Dietary intake of various food groups and nutrients associated with frailty

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P 106 • Food intake, nutritional status, ability to function and life quality in older adults: findings in the Power Meals trial

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P 107 • Dietary Inflammatory Index is differently associated with ectopic fat depots in overweight and obese adults

Eleonora Poggiogalle¹, Carla Lubrano¹, Federica Luisi¹, James R. Hebert², Nitin Shivappa², Michele Di Martino³, Lucio Gnessi¹, Stefania Mariani¹, Andrea Lenzi¹, Lorenzo Maria Donini¹ ¹ Department of Experimental Medicine, Sapienza University, Rome, Italy. ² University of South Carolina, Columbia, South Carolina, United States. ³ Department of Radiological Sciences, Sapienza University, Rome, (Italy)

P 108 • Sarcopenic obesity and functional limitations in older Chileans

Cecilia Albalá, Carlos Marquez, Lydia Lera, Barbara Angel, Mario Moya, Patricia Arroyo - INTA universidad de Chile - (Chile)

P 109 • Association of Total Energy Expenditure measured by the doubly-labeled water method and different parameters of physical activity

Tatiane Lopes de Pontes, MsC¹, Jair Licio Ferreira Santos MD, PhD¹, Fernanda Pinheiro Amador dos Santos Pessanha PhD¹, Natália Maira da Cruz Alves MsC¹, Karina Pfrimer PhD¹; Renato Campos Freire Júnior PhD²; Priscila Giacomo Fassini PhD¹; Nereida Kilza da Costa Lima MD, PhD¹, Julio Cesar Moriguti MD, PhD¹, Eduardo Ferrioli MD, PhD^{1,11} Ribeirao Preto Medical School, University of Sao Paulo, Ribeirao Preto-SP, Brazil; ² Federal University of Amazonas - Manaus-AM, (Brazil)

NUTRITION INTERVENTION

P 110 • Impact of nutrition guidelines on the dietary behaviour of the elderly in Ondo West of Nigeria

Jerome Abiola Oloro; Prof Emsie Dicks; Prof Jeanette Kearney; Dr Lola Otitoola (Nigeria)

P 111 • Effects of individualized per-meal protein prescription, nutrition education, and tele-diet coaching on dietary protein intake and physical function in economically disadvantaged older adults

Sareen Gropper¹, Maude Exantus¹, Kelley Jackson¹, Seana Reid¹, Shane Spiers², Melody Romano², Deborah D'Avolio¹, Andra Opalinski¹, Ruth Tappen¹, & Edgar Ramos Vieira^{4,11} ¹ Christine E Lynn College of Nursing, Florida Atlantic University, Boca Raton, FL, USA ² Medical School, St. George's University, Grenada, West Indies ³ Charles E Schmidt College of Science, Florida Atlantic University, Boca Raton, FL, USA ⁴ Department of Physical Therapy, Florida International University, Miami, FL, (USA)

P 112 • Effects of nutritional supplementation (synbiotics or glutamine) on the systemic inflammation and some consequences on body composition in elderly: a randomized clinical trial

Marcus Vinicius LS Quaresma, M.Sc. ¹, João Valentini-Neto, M.Sc. ¹, Camila Maria de Melo, PhD², Sandra ML Ribeiro, PhD^{1,2,11} ¹-School of Public Health, University of São Paulo, SP, Brazil; ²- Federal University of Lavras, MG, Brazil; ³- School of Arts, Sciences and Humanities- University of São Paulo, SP, (Brazil)

P 113 • Nutritional treatment as a tool prediction of mortality in intensive therapy unit

Ana Margaret Nascimento Gomes Farias Soares, Ana Paula Aparecida Rodrigues Assunção, Fabiana Ferreira da Silva, Camila Regina Leite de Campos, Isabela Cardoso Pimentel, Maria José dos Santos, Fausto Feres, Carlos Daniel Magnoni Sao Paulo (Brazil)

FRAILTY IN CLINICAL PRACTICE AND PUBLIC HEALTH

P 114 • Associations between frailty and oral health: findings from the Concord Health and Ageing in Men Project (CHAMP)

Eduardo Valdez¹, F.A. Clive Wright¹, Vasi Naganathan^{1,2}, Kate Milledge^{1,3}, Fiona M Blyth^{1,4}, Vasant Hirani⁵, David G. Le Couteur^{1,2}, David J. Handelsman⁶, Louise M. Waite^{1,2}, Robert G. Cumming^{1,3,1} Centre for Education and Research on Ageing, Concord Clinical School, The University of Sydney, and the Ageing and Alzheimer's Institute, Concord Repatriation General Hospital, Sydney Local Health District, Concord, NSW, Australia. ² Department of Geriatric Medicine and Rehabilitation Medicine, Concord Repatriation General Hospital, Sydney Local Health District, Concord, NSW, Australia. ³ School of Public Health, Sydney Medical School, The University of Sydney, Sydney, NSW, Australia. ⁴ Concord Clinical School, The University of Sydney, Concord Repatriation and General Hospital, Concord, NSW Australia. ⁵ School of Life and Environmental Sciences, Charles Perkins Centre, The University of Sydney, Sydney, NSW, Australia. ⁶ ANZAC Research Institute, The University of Sydney, Concord Repatriation General Hospital, Concord, NSW, (Australia)

P 115 • The relationship between physical frailty and depressive symptoms in community-dwelling older adults: the mediating and moderating role of social support

Yaru Jin MSc¹, Cuili Wang PhD², Huaxin Si MSc¹, Xiaoyu Tian MSc¹, Xiaoxia Qiao PhD², Xinyi Liu MSc¹ ¹ School of Nursing, Shandong University, Jinan, China ² School of Nursing, Peking University, Beijing, (China)

P 116 • The association between frailty and medication adherence among community-dwelling older patients with chronic diseases: medication beliefs acting as mediators

Xiaoxia Qiao PhD¹, Cuili Wang PhD¹, Xiaoyu Tian MSc², Yaru Jin MSc², Huaxin Si MSc², Xinyi Liu MSc² ¹ School of Nursing, Peking University, Beijing, China ² School of Nursing, Shandong University, Jinan, (China)

P 117 • 30-Day Readmission Diagnoses in Older Adults Previously Admitted for a Diagnosis of Sepsis

Alison Kohn MS¹, Angelina Avdella MS¹, Gabriella Engstrom PhD¹, Bernardo Reyes MD¹, Joseph Ouslander MD¹ ⁽¹⁾ Charles E. Schmidt College of Medicine at Florida Atlantic University, Boca Raton, FL, (USA)

P 118 • Associations of 30 Day Readmissions Following Hip Fractures in Patients 75 and Older

Avdella, Angelina MSY²; Kohn, Alison MSY²; Engstrom, Gabriella PhD¹; Reyes, Bernardo MD¹; Ouslander, Joseph MD² Florida Atlantic University, Schmidt College of Medicine, Boca Raton, FL, (USA)

P 119 • Co-existence of Physical Frailty and Sarcopenia is Associated with Poorer Functional Fitness and Adverse Health Outcomes in Community-Dwelling Older Adults

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P 120 • Visual Impairment and Frailty: An important, yet understudied relationship

Bonnielin K. Swenor⁽¹⁾, Moon Jeong Lee⁽¹⁾, Jing Tian⁽²⁾, Varshini Varadaraj⁽¹⁾, Karen Bandeen-Roche⁽²⁾ ⁽¹⁾ Department of Ophthalmology Johns Hopkins School of Medicine Wilmer Baltimore, ⁽²⁾ Department of Biostatistics Johns Hopkins Bloomberg School of Public Health Baltimore, MD, (USA)

P 121 • Community nursing care approaches based on activities of community-dwelling senior couples living independently at home

Pingping Zhang Saitama Prefectural University, (Japan)

P 122 • Frailty was predictive of death after discharge from the emergency service: a 6-month prospective study from a middle-income country

Gabriella Vano Aricó de Almeida⁽¹⁾, Carla Fernanda de Vasconcelos Romanin⁽¹⁾, Tarsila Gomes Caldas⁽¹⁾, Nadia Tiemi Antunes Yoshitake⁽¹⁾, Lia Bataglini⁽¹⁾, Matteo Cesari⁽²⁾, Ivan Arahamian⁽¹⁾ ⁽¹⁾ Group of Investigation on Multimorbidity and Mental Health in Aging (GIMMA), Department of Internal Medicine, Faculty of Medicine of Jundiáí ⁽²⁾ "Fondazione (IRCCS) Ca' Granda - Ospedale Maggiore Policlinico", University of Milan (Italy)

P 123 • Non-motor characteristics but not motor signs of Parkinson's disease were associated with frailty

Richard Murdoch Montgomery⁽¹⁾, Matteo Cesari⁽²⁾, Ivan Arahamian⁽¹⁾ ⁽¹⁾ Group of Investigation on Multimorbidity and Mental Health in Aging (GIMMA), Department of Internal Medicine, Faculty of Medicine of Jundiáí ⁽²⁾ "Fondazione (IRCCS) Ca' Granda - Ospedale Maggiore Policlinico", University of Milan (Italy)

P 124 • Selective serotonin receptor inhibitor monotherapy was associated with frailty and falls in a clinic cohort of older adults from a middle-income country

Ivan Arahamian⁽¹⁾, Sumika Mori Lin⁽¹⁾, Alaise Silva Santos de Siqueira⁽¹⁾, Marina Maria Biella⁽¹⁾, Matteo Cesari⁽²⁾, Wilson Jacob-Filho⁽¹⁾ ⁽¹⁾ Geriatrics Division, Faculty of Medicine, University of São Paulo ⁽²⁾ "Fondazione (IRCCS) Ca' Granda - Ospedale Maggiore Policlinico", University of Milan (Italy)

P 125 • Relationship between Immune Cell Profiles and Frailty in Patients with Breast Cancer receiving Chemotherapy

Nikeshia Gilmore, PhD¹, Mostafa Mohamed, MBBCh, MSc¹, Lianlian Lei MS¹, Allison Magnuson DO¹, Ronald Maggiore MD¹, Supriya Mohile MD, MS¹, Mary Ontko, RN², Jerry Mitchell, MD³, Kelley Young, MD⁴, Michelle Janelsins, PhD, MPH¹ ⁽¹⁾ University of Rochester Medical Center, Rochester, NY, USA ⁽²⁾ Dayton Clinical Oncology Program, Dayton, OH, USA ⁽³⁾ Columbus NCORP, Columbus, OH, USA ⁽⁴⁾ Kansas City NCORP, Prairie Village, KS, (USA)

P 126 • Detecting the features of frailty criteria by comparing with comprehensive geriatric assessment via linking to the International Classification of Functioning, Disability and Health (ICF)

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P 127 • Association of low serum 25-hydroxyvitamin D levels with the frailty syndrome in elderly population at Colima, México

Faías-Moreno Katia Carmina¹, Carrasco-Peña Karla Berenice², Trujillo-Hernández Benjamín², Aguilar-Mancilla Zahira Cecilia³, Pulido-García Alejandra⁴, Santillán-Luna Yedadirá⁴, Rodríguez-Pedraza Karina⁴, Trujillo-Magallón Mariana⁴, Ramírez-Covarrubias Lizeth Estefania⁵, Cervantes-Santa Cruz Perla Guillemina² ¹ Second year student of Master in Medical Sciences, Faculty of Medicine, Universidad de Colima, Mexico. ² Full time professor, Faculty of Medicine, Universidad de Colima, Mexico. ³ Full time professor, Faculty of Medicine, Universidad de Colima, Mexico. ⁴ Fifth year Medical student, Faculty of Medicine, Universidad de Colima, Mexico. ⁵ Sixth year Medical student, Faculty of Medicine, Universidad de Colima, (Mexico)

P 128 • Appropriateness of new-oral anticoagulant dose adjustment in older adults

Tugba Erdogan¹, Onur Erdogan², Gülistan Bahat Ozturk¹, Mehmet Akif Karan¹ ¹ Istanbul University, Istanbul Medical School, Department of Internal Medicine, Division of Geriatrics, Istanbul, Turkey ² Istinye State Hospital, Department of Cardiology, Istanbul, (Turkey)

P 129 • Detecting the features of frailty criteria by comparing with comprehensive geriatric assessment via linking to the International Classification of Functioning, Disability and Health (ICF)

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P 130 • Characteristics of lifestyles of the frailty prevention among community-dwelling elderly women of positive attitude toward health promotion activities

Mariko Zensho (Saitama Prefectural University) Osamu Fujinawa (Fukui Health Science University), Koji Sugano (Juntendo Tokyo Koto Geriatric Medical Center), Ryo Kubota (Saitama Prefectural University), Toyo Kikumoto (Saitama Prefectural University), Hiromi Nakamura-Thomas (Saitama Prefectural University), Hiroko Kohara (University of Kochi), Yuko Morikagi (Yamagata University), Hajime Toda (Kitasato University) (Japan)

P 131 • Community Based Dual Task Interventions to Reduce the Prevalence of Frailty: Findings from HAPPY Program

Reshma A Merchant (Yong Loo Lin School of Medicine, National University of Singapore, Singapore) Matthew Chen (National University Hospital, Singapore) Surein SANDRASAGERAN (National University Hospital, Singapore) Tan Weng Mooi (Agency of Integrated Care) Chris Tsoi Tung (National University Hospital, Singapore)

P 132 • Identifying the important items to be included in a frailty specific patient-reported outcomes : a qualitative study among patients and professionals

F. Buckinx⁽¹⁾, J.-Y. Reginster⁽¹⁾, Y. Rolland⁽²⁾, M. Cesari⁽³⁾, C. Beaudart⁽¹⁾, R. Rizzoli⁽⁴⁾, J. Petermans⁽⁵⁾, B. Fougère⁽⁶⁾, O. Bruyère⁽¹⁾ ¹ Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium. WHO Collaborating Centre for Public Health Aspects of Musculoskeletal Health and Ageing. ² Gérontopôle, University Hospital of Toulouse III, Toulouse, France, University of Toulouse III, France ³ Geriatric Unit, Fondazione Ca' Granda - Ospedale Maggiore Policlinico, Milano, Italy ⁴ Service of Bone Diseases, Department of Internal Medicine Specialties, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland ⁵ Department of Geriatrics, CHU-Liège, Liège, Belgium ⁶ Division of Geriatric Medicine, Saint Louis University School of Medicine, St Louis, (USA)

P 133 • Diabetes in frail older adults: assessment of glycaemic control and prescriptions

Anne-Sophie Mangé¹, Cécile Mccambridge¹, Arnaud Pages^{1,2}, Charlotte Laborde^{1,2}, Sandrine Sourd^{1,2}, Anne Ghisolfi¹, Bruno Vellas^{1,2}, Philippe Cestac^{1,2} ⁽¹⁾ Centre Hospitalier Universitaire de Toulouse, Toulouse, France ; ⁽²⁾ Inserm UMR1027, Université de Toulouse III Paul Sabatier, Toulouse, (France)

P 134 • Prevalence of frailty in older adults with Rheumatoid Arthritis

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P 135 • Relationship between predictive risk factors for oropharyngeal dysphagia and dysphagia in cardiovascular disease

Tatiana Magalhães de Almeida Debora Afonso Livia Gomes Isabela Mota Maria Jose dos Santos Roberta G Silva Fausto Feres Carlos Daniel Magnoni instituto dante pazzanese de cardiologia constantino de sousa (Brazil)

P 136 • Screening for sarcopenia: evaluating the performance of different case-finding strategies using SARC-F in combination with muscle strength and performance measures

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P 137 • Frailty and its risk factors in Dutch adults who have had childhood cancer

Emma J. Verwaaijen¹, Daniëlle M. Corbijn¹, Annelienke M. van Hulst¹, Marry M. van den Heuvel-Eibrink¹, Annelies Hartman², Saskia M.F. Pluijm¹ ⁽¹⁾ Princess Maxima Center for Pediatric Oncology, Utrecht, ⁽²⁾ Department of Pediatric Physiotherapy, Erasmus MC-Sophia Children's Hospital, Rotterdam, (The Netherlands)

P 138 • Impact of frailty on post-operative outcome of major orthopedic surgery in older Indian

Sumitabh Singh MD¹, Prasun Chatterjee MD¹, Rishav Bansal MD¹, Gevesh Chand Dewangan MBBS1, Aparajit Ballav Dey MD¹ ⁽¹⁾ Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi, (India)

P 139 • Prevalence of frailty in elderly patients with Aortic Stenosis included in an Geriatric Assessment Program

Pablo E Solla, MD¹, Eva M López, MD¹, Juan J Solano, MD¹, José Gutiérrez, MD, PhD¹ ⁽¹⁾ Geriatric Department, Área de Gestión Clínica de Geriatría, Hospital Monte Naranco, Oviedo, Asturias, (Spain)

P 140 • Frailty assessment and its impact on treatment of elderly patients with Aortic Stenosis

Pablo E Solla, MD¹, Eva M López, MD¹, Juan J Solano, MD¹, José Gutiérrez, MD, PhD¹ ⁽¹⁾ Geriatric Department, Área de Gestión Clínica de Geriatría, Hospital Monte Naranco, Oviedo, Asturias, (Spain)

P 141 • Frailty profiles: an analysis of routinely collected hospital data

Louise Lafortune PhD¹, Joyce Coker, PhD¹, Rhian Simpson, MD², Roman Romero-Ortuno, MD³ ⁽¹⁾ Cambridge Institute of Public Health, University of Cambridge, Cambridge, United Kingdom. ⁽²⁾ Cambridgeshire and Peterborough NHS Foundation Trust, Fulbourn Hospital, Cambridge, United Kingdom. ⁽³⁾ School of Medicine, Trinity College Dublin, Dublin, (UK)

P 142 • Frailty criteria are associated with circadian rest-activity rhythm disturbances in institutionalized older adults

Patrícia Vidal de Negreiros Nobrega ⁽¹⁾, Rafaella Silva dos Santos ⁽²⁾, Alvaro Campos Cavalcanti Maciel ⁽²⁾, John Fontonele-Araujo ⁽¹⁾, & Edgar Ramos Vieira ⁽³⁾ ⁽¹⁾ University Center of João Pessoa, João Pessoa, PB, Brazil ⁽²⁾ Graduate Program in Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil ⁽³⁾ Department of Physical Therapy, Florida International University, Miami, FL, (USA)

P 143 • Is Implicit Ageism Associated with Frailty in Older Veterans?

Douglas Salguero ^{1,2}, Nadeem Mohammed ^{1,2}, Juliana Ferri-Guerra ^{1,2}, Raquel Aparicio ^{1,2}, Zubair Rahaman ², and Jorge G. Ruiz ^{2,3} ⁽¹⁾ Department of Public Health Sciences, University of Miami Miller School of Medicine ⁽²⁾ Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE) ⁽³⁾ Department of Medicine, University of Miami Miller School of Medicine (USA)

P 144 • Is Explicit Ageism Associated with Frailty in Older Veterans?

Juliana Ferri-Guerra ^{1,2}, Nadeem Mohammed ^{1,2}, Douglas Salguero ^{1,2}, Raquel Aparicio-Ugarriza ^{1,2}, Zubair Rahaman ², and Jorge G. Ruiz ^{2,3} ⁽¹⁾ Department of Public Health Sciences, University of Miami Miller School of Medicine ⁽²⁾ Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE) ⁽³⁾ Department of Medicine, University of Miami Miller School of Medicine (USA)

P 145 • The Association of Obstructive Sleep Apnea with Frailty in Older Veterans with Diabetes

Christopher Lewis ¹, Valeria Baldvieso¹, Isaac Peña ¹, Isis Romero¹, Raquel Aparicio-Ugarriza^{2,3}, and Jorge G. Ruiz ^{3,4} ⁽¹⁾ Jackson Memorial Hospital, Miami, FL ⁽²⁾ Dept. of Public Health Sciences, U of Miami Miller School of Medicine ⁽³⁾ Miami VAHS GRECC ⁽⁴⁾ Dept. of Medicine, U of Miami Miller School of Medicine (USA)

P 146 • The Association of Depression with Frailty in Older Veterans with Diabetes

Yosvan Lam ¹, Seyed A. Mirabbasi¹, Astrid Pilgrim ¹, Mercedes Rodriguez-Suarez², Christopher Lewis¹, Raquel Aparicio-Ugarriza ^{3,4}, and Jorge G. Ruiz ^{4,5} ⁽¹⁾ Jackson Memorial Hospital, Miami, FL ⁽²⁾ Mental Health Service, Miami VA Healthcare System ⁽³⁾ Dept. of Public Health Sciences, U of Miami Miller School of Medicine ⁽⁴⁾ Miami VAHS GRECC ⁽⁵⁾ Dept. of Medicine, U of Miami Miller School of Medicine

P 147 • The Association of Frailty with Hospitalizations and Mortality in Older Veterans with Diabetes

Nadeem Mohammed ^{1,2}, Juliana Ferri-Guerra ^{1,2}, Raquel Aparicio-Ugarriza ^{1,2}, Douglas Salguero ^{1,2}, Hermes Florez ^{1,2,3}, and Jorge G. Ruiz ^{2,3} ⁽¹⁾ Dept. of Public Health Sciences, U of Miami Miller School of Medicine ⁽²⁾ Miami VAHS GRECC ⁽³⁾ Dept. of Medicine, U of Miami Miller School of Medicine (USA)

P 148 • Is Frailty Associated with Tight Glycemic Control in Older Veterans with Diabetes?

Nadeem Mohammed ^{1,2}, Raneem Milyani ³, Aakash Shah ^{1,2}, Raquel Aparicio-Ugarriza ^{1,2}, Pravallika Bharatula ^{1,2}, Sriravali Potluri ^{1,2}, Hermes Florez ^{1,2,4}, and Jorge G. Ruiz ^{2,4} ⁽¹⁾ Dept. of Public Health Sciences, U of Miami Miller School of Medicine ⁽²⁾ Miami VAHS GRECC ⁽³⁾ Jackson Memorial Hospital, Miami, FL ⁽⁴⁾ Dept. of Medicine, U of Miami Miller School of Medicine (USA)

FRAILTY IN CLINICAL PRACTICE AND PUBLIC HEALTH

P 149 • The potential to prevent, identify and treat frailty and its consequences in community-dwelling older adults using a digital platform and existing smartphone capabilities

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P 150 • Accelerated Aging in Older Persons with HIV Infection

Julia Danz, DO¹, Mary Goodyear, MS¹, Víctor Tran, M.S.¹, Amarilis Acevedo, PhD¹, Raymond Ownby, MD, PhD⁽¹⁾ Department of Psychiatry and Behavioral Medicine, Nova Southeastern University, Fort Lauderdale, FL, (USA)

P 151 • Potentially inappropriate medication in people over 75 years in neurosurgery departments: dream and reality...

Mathilde Strumia⁽¹⁾, Chloé Duran⁽¹⁾, Yan Hakim⁽¹⁾, Khevin Itoua-Gassaye⁽¹⁾, C. Laborde, PharmaD, PhD⁽¹⁾ Pharmacy Department, CHU Toulouse, Toulouse, (France)

P 152 • Does Implicit Ageism Predict Frailty in Older Veterans?

Douglas Salguero^{1,2}, Mohammed Nadeem^{1,2}, Juliana Ferri-Guerra^{1,2}, Raquel Aparicio^{1,2}, Zubair Rahaman², and Jorge G. Ruiz^{2,3} ¹Department of Public Health Sciences, University of Miami Miller School of Medicine ²Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE) ³Department of Medicine, University of Miami Miller School of Medicine (USA)

P 153 • Tobacco use and its association with frailty

Mario Ulises Pérez-Zepeda MD, PhD^(1,2,3,4), Daniela Patino-Hernandez MD^{1,2,5}, Miguel Germán Borda MD PhD(c)^{1,2,6, (1)}* Ageing Institute, Pontificia Universidad Javeriana. Bogotá, Colombia ⁽²⁾Semillero de Neurociencias y Envejecimiento, Pontificia Universidad Javeriana. Bogotá, Colombia ⁽³⁾Geriatric Epidemiology Research Unit. Instituto Nacional de Geriatria, México D.F, México. ⁽⁴⁾Medical School, Universidad Anáhuac Norte. México D.F, México. ⁽⁵⁾Centro de Especialistas, Colsubsidio. Bogota, Colombia ⁽⁶⁾Centre for Age-Related Diseases, Stavanger University Hospital. Stavanger, (Norway)

P 154 • Testing the Pictorial Fit-Frail Scale in Canada and Malaysia

Olga Theou, PhD¹, Lisa McGarrigle, PhD¹, Sally Suriani Ahip, MMED², Emma Squires, BA¹, Lindsay Wallace, MSC¹, Sazlina Shariff, PhD², Renuka Visvanathan, PhD¹, Kenneth Rockwood, MD⁽¹⁾ Geriatric Medicine, Dalhousie University and Nova Scotia Health Authority, NS, Canada ⁽²⁾Sarawak State Health Department, Ministry of Health, Malaysia ⁽³⁾Family Medicine, Universiti Putra, Malaysia ⁽⁴⁾National Health and Medical Research Council Centre of Research Excellence in Frailty and Healthy Ageing, (Australia)

P 155 • Frailty and Changes in Cognitive Function After Kidney Transplantation - Failure to Recover to Baseline Levels

Nadia M. Chu, PhD MPH^(1,2), Alden L. Gross, PhD, MHS^(1,3), Ashton A. Shaffer, BA^(1,2), Christine E. Haugen MD⁽²⁾, Silas P. Norman, MD⁽⁴⁾, Qian-Li Xue, PhD^(1,3), A. Richey Sharrett, M.D., DrPH⁽¹⁾, Michelle Carlson, PhD^(1,3), Karen Bandeen-Roche, PhD⁽⁶⁾, Dorry L. Segev, M.D., PhD^(1,2), Mara A. McAdams-DeMarco, PhD^{(1,2)(1)} Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD. ⁽²⁾ Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD. ⁽³⁾ Department of Mental Health, Johns Hopkins School of Public Health, Baltimore, MD. ⁽⁴⁾ Department of Internal Medicine, Division of Nephrology, University of Michigan School of Medicine, Ann Arbor, MI. ⁽⁵⁾ Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, MD. ⁽⁶⁾ Department of Biostatistics, Johns Hopkins School of Public Health, Baltimore, MD (USA)

P 156 • Seniors' Community Hub (SCH)- A model of care to support primary care providers in caring for older adults with frailty

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P 157 • Frailty profile of patients referred to a secondary care Frailty Clinic by Family Medicine Physicians

Karina Pfrimer PhD¹, Márcio Eloi Colombo Filho¹, Paulo Fernandes Formighieri MD PhD¹, Anderson Marlieri Navarro PhD¹, Fernanda Pinheiro Amador dos Santos Pessanha PhD¹, Nereida Kilza da Costa Lima MD PhD¹, Julio Cesar Moriguti MD PhD¹, Eduardo Ferrilli MD PhD⁽¹⁾ Department of Medicine, Ribeirao Preto Medical School (Brazil)

P 158 • The Transition of frailty status and its Influencing Factors in community dwelling Pre-diabetic and diabetic older population:**a prospective cohort study**

Qianqian Sun MD¹, Yanyu Chen MD¹, Shang Wang PhD⁽¹⁾* The Center of Gerontology and Geriatrics, West China Hospital, Sichuan University (China)

P 159 • Frailty in Hospitalized Patients with Atrial Fibrillation

Shivani Priyadarshni, Resident physician, Aventura Hospital and Medical Center Ramanakumar Anam, Research fellow, Aventura Hospital and Medical Center Carmen Cartwright, Resident physician, Aventura Hospital and Medical Center Miriam Zylbergait Lisigurski, MD, Aventura Hospital and Medical Center (USA)

P 160 • Streamlining Frailty Assessment in Clinical Practice: The Fit-Frailty "App"

Courtney C. Kennedy^{1,2}, George Ioannidis^{1,2}, Alexandra Papaioannou^{1,2}, Jonathan D. Adachi^{1,2}, Sharon Mar^{1,2}, Ahmed Negm², Patricia Hewston², Kenneth Rockwood⁽¹⁾ McMaster University, Department of Medicine, Hamilton, Canada ⁽²⁾ GERAS Centre for Aging Research, Hamilton, Canada ⁽³⁾ Dalhousie University, Department of Medicine, Halifax, (Canada)

P 161 • Social frailty as an important risk factor for adverse health outcomes in older adults: findings from an eight-year follow-up population-based cohort study

Lina Ma, Zhe Tang, Fei Sun, Yun Li, Piu Chan Department of Geriatrics, Xuanwu Hospital, Capital Medical University, China National Clinical Research Center for Geriatric Medicine, Beijing, (China)

P 162 • Frailty and associated risk factors

Blanca González García MN, Daniel Gámez Treviño MD, Ricardo Salinas Martínez MD, Fernando Díaz González MS-IV, Patricia Guerrero Garza, Javier Dávila Olalde MD, Francisco Barrera-Flores MS-VI, Patricia Ancer Rodríguez MCE Geriatrics Service University Hospital UANL Monterrey NL (Mexico)

P 163 • Subjective weakness as predictor of frailty

Ronald Camilo Gómez^{1,2,3}, Miguel Germán Borda^{1,4}, Elkin García-Cifuentes¹, Mario Ulises Pérez-Zepeda^{1,5,1}. Semillero de Neurociencias y envejecimiento, Instituto de Envejecimiento, Facultad de Medicina, Pontificia Universidad Javeriana, Bogotá, Colombia². Hospital Cardiovascular del Niño de Cundinamarca, Soacha, Colombia³. Clínica del Country, Bogotá, Colombia⁴. Centre for Age-Related Medicine (SESAM), Stavanger University Hospital, Stavanger, Norway. ⁵ Geriatric Epidemiology Research Department, Instituto Nacional De Geriatria, México City, (México)

P 164 • Frailty in older adults with mild dementia with lewy bodies and alzheimer's disease

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P 165 • Role of comprehensive geriatric assessment in predicting post-operative delirium in major orthopaedic surgery in Indian elderly

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P 166 • Sarcopenia in elderly people in cardiology hospital

Ana Margaret Nascimento Gomes Farias Soares, Natália Oliveira, Rita de Cássia Aquino, Daniela França Gomes, Maria José dos Santos, Isabela Cardoso Pimentel Mota, Fausto Feres, Carlos Daniel Magnoni

P 167 • A systematic approach to prescribe post-hospitalization home-based physical activity for mobility: the PATH Study

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P 168 • Lack of Social Support as a Risk Factor of Physical Frailty in Older Adults Living in Rural Communities of Peruvian Andes

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P 169 • Parameters associated with the refusal to participate in a physical exercise program after hospital discharge in older adults

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P 170 • Using Administrative and Laboratory Data from the Electronic Health Record to Examine Frailty Indicators for Hospital Readmission

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P 171 • The relevance of physical frailty in geriatric mental health care: an example of late-life depression

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OSTEOPOROSIS & SARCOPENIA

P 172 • Prevalence of sarcopenia and its association with bone mineral density among healthy adult North Indian population: A community survey

Rimesh Pal MD¹, Sanjay Kumar Bhadada MD, DM¹, Anil Bhansali MD, DM¹ ⁽¹⁾ Department of Endocrinology, Post Graduate Institute of Medical Education and Research, Chandigarh, (India)

P 173 • Forecasting life expectancy in sarcopenic and non-sarcopenic community-dwelling older Chileans

Lydia Lera PhD, Cecilia Albala MD, Bárbara Leyton MSc, Bárbara Angel PhD, Carlos Marquez MSc, Rodrigo Saguez, Ximena Moreno PhD Public Health Nutrition Unit, Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago de Chile, (Chile)

P 174 • Relationship between the Changes over Time of Bone and Muscle Health in Children and Adults: A Systematic Review and Meta-Analysis

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P 175 • Age-related change in appendicular skeletal muscle mass adjusted for height or arm span in middle-aged and elderly Japanese women: the Japanese Population-based Osteoporosis (JPOS) study

Kazuki Kaji, PT. MS¹, Jun Kitagawa, PhD², Yuki Hoshino, PT³, Takahiro Tachiki, PT. MS⁴, Naonobu Takahira, MD. PhD⁵, Masayuki Iki, MD. PhD⁶, Junko Tamaki, MD. PhD⁵, Etsuko Kajita, PhD⁶, Yuho Sato, PhD⁷, JPOS Study Group⁴ ⁽¹⁾ Department of Rehabilitation, Kitasato Institute Hospital, Tokyo, Japan ⁽²⁾ Graduate School of Medical Science, Kitasato University, Kanagawa, Japan ⁽³⁾ Kamakura Rehabilitation St. Therese's Hospital, Kanagawa, Japan ⁽⁴⁾ Department of Public Health, Kinki University Faculty of Medicine, Osaka, Japan ⁽⁵⁾ Department of Hygiene and Public Health, Osaka Medical College, Osaka, Japan ⁽⁶⁾ Department of Nursing, Chukyo Gakuin University, Gifu, Japan ⁽⁷⁾ Department of Human Life, Jin-ai University, Fukui, (Japan)

P 176 • Prevalence of prodromal sarcopenia, sarcopenic-obesity, osteopenia and osteosarcopenia in early middle-age

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P 177 • Influence of the new EWGSP2 consensus on research with presarcopenic and sarcopenic elderly

Jolan Dupont, MD¹, Lenore Dedeyne, MSc¹, Katrien Koppo, PhD², Sabine Verschuere, PhD³, Jos Tournou, MD, PhD^{1,4}, Evelien Gielen, MD, PhD^{1,4}, Gerontology & Geriatrics, Department of Chronic Diseases, Metabolism and Ageing (CHROMETA), KU Leuven, Leuven, Belgium ² Exercise Physiology Research Group, Department of Movement Sciences, KU Leuven, Leuven, Belgium ³ Research Group for Musculoskeletal Rehabilitation, Department of Movement Sciences, KU Leuven, Leuven, Belgium ⁴ Department of Geriatric Medicine, UZ Leuven, Leuven, (Belgium)

P 178 • Skeletal Muscle Index and Bone Variables in Young Adult Men

Anthony Khawaja MA^{1,2}, Jacques Prioux PhD³, Ghassan Maalouf MD³, Rawad El Hage PhD¹ ⁽¹⁾ Department of Physical Education, FASS, University of Balamand, Kelhat El Koura, Lebanon. ⁽²⁾ Movement, Sport, and Health Sciences Laboratory (M2S), UFR-STAPS, University of Rennes ³ Rennes, France. ⁽³⁾ Bellevue University Medical Center, Faculty of Medicine, Saint Joseph University, Mansourieh, (Lebanon)

P 179 • Predicting the risk of low Bone Mineral Density at diagnosis and completion of treatment of childhood Acute Lymphoblastic Leukemia

Emma J. Verwaaijen¹, Annelies Hartman², Mariël L. te Winkele³, Inge M. van der Sluis¹, Robert de Jonge³, Hester A. de Groot-Kruseman^{1,4}, Maarten H. Lequin⁵, Marry M. van den Heuvel-Eibrink¹, Saskia M.F. Pluijms¹ ⁽¹⁾ Princess Maxima Center for Pediatric Oncology, Utrecht, The Netherlands ⁽²⁾ Department of Pediatric Physiotherapy, Erasmus MC-Sophia Children's Hospital, Rotterdam, The Netherlands ⁽³⁾ Department of Clinical Chemistry, Amsterdam UMC, Amsterdam, The Netherlands ⁽⁴⁾ Dutch Childhood Oncology Group, The Hague, The Netherlands ⁽⁵⁾ Department of Radiology, University Medical Center, Utrecht, (The Netherlands)

P 180 • The prognostic effect of sarcopenia in patients treated with gemcitabine based chemotherapy for metastatic/unresectable pancreatic adenocarcinoma

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P 181 • Association of Sarcopenia and mid arm circumference in older adults

Gevesh Chand Dewangan MBBS¹, Sunny Singhal MD¹, Sumitabh Singh MD¹, Avinash Chakraborty MD¹, Aparajit Ballav Dey MD¹ ⁽¹⁾ Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi (India)

P 182 • Applying the EWGSP2: Effect of muscle strength definitions on sarcopenia prevalence and predictive validity

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P 183 • Sleep disorders and their association with incident sarcopenia in community dwelling older Chileans

Myriam Gutiérrez MSc¹, Carlos Márquez MSc¹, Lydia Lera PhD¹, Patricio Peirano PhD², Cecilia Albala MD MPH¹. ⁽¹⁾ Public Health Nutrition Unit, Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago, Chile ⁽²⁾ Sleep Laboratory, Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago, (Chile)

P 184 • Sarcopenia, functional dependence and physical performance

Javier Davila MD¹, Daniel Gámez MD², Sara Yevevino MD³, Ricardo Salinas MD⁴, Mauricio Nava MD⁵, Blanca Gonzalez MFC Monterey (Mexico)

P 185 • Cut-off points of phase angle and its association with sarcopenic obesity in community-dwelling Mexican Older adults

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P 186 • Sarcopenia, Osteoporosis and Frailty - do Patients understand what we are talking about ?

Tim Krappel, Student, Hochschule St.Gallen Dr.med. Ferdinand Krappel, Spitalzentrum Oberwallis, Brig (Switzerland)

P 187 • The correlation of muscle thickness and pennation angle assessed by ultrasound with sarcopenia in elderly Chinese community dwellers

Yunlu Sheng, MD, PhD¹, Siping Zhu MS¹, Wei Lin MS¹, Shu Chen BS¹, Guoxian Ding MD, PhD¹ ⁽¹⁾ Division of Geriatric Endocrinology, the First Affiliated Hospital of Nanjing Medical University, Nanjing, People's (Republic of China)

P 188 • Sarcopenia in hip fracture. the neglected risk

Sergio Chávez MD¹, Héctor Aguado MD, PhD¹, Carmen Cervera Díaz MD², Pilar M. Díez³, Eva Villanueva³, Clarisa Simón-Pérez MD PhD¹, Miguel A Martín-Ferrero MD PhD Prof¹ ⁽¹⁾ Orthogeriatric Unit, orthopaedic and trauma surgery, Hospital Clínico Universitario Valladolid, Spain ⁽²⁾ Orthogeriatric Unit, geriatric service, Hospital Clínico Universitario Valladolid, Spain ⁽³⁾ Medical school, Valladolid University, (Spain)

P 189 • Sarcopenia and fragility fractures. they are not all the same

Sergio Chávez MD¹, Héctor Aguado MD, PhD¹, Carmen Cervera Díaz MD², Lucía Piedra Dueñas³, Clarisa Simón-Pérez MD PhD¹, Miguel A Martín-Ferrero MD PhD Prof¹ ⁽¹⁾ Orthogeriatric Unit, orthopaedic and trauma surgery, Hospital Clínico Universitario Valladolid, Spain ⁽²⁾ Orthogeriatric Unit, geriatric service, Hospital Clínico Universitario Valladolid, Spain ⁽³⁾ Physiotherapist, Hospital Clínico Universitario Valladolid, (Spain)

P 190 • Exercise and sarcopenia. Shedding light on its effects

Sergio Chávez MD¹, Héctor Aguado MD, PhD¹, Carmen Cervera Díaz MD², Blanca Llorente Sanz³, Paula Ruiz Mesa³, Clarisa Simón-Pérez MD PhD¹, Miguel A Martín-Ferrero MD PhD Prof¹ ⁽¹⁾ Orthogeriatric Unit, orthopaedic and trauma surgery, Hospital Clínico Universitario Valladolid, Spain ⁽²⁾ Orthogeriatric Unit, geriatric service, Hospital Clínico Universitario Valladolid, Spain ⁽³⁾ Medical school, Valladolid University, (Spain)

P 191 • Impaired sensitivity to thyroid hormones is associated with sarcopenia in Chinese subjects

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P 192 • Serum myostatin modifications in hip fractured patients: a sub-group analysis of a 2 months multidisciplinary rehabilitative and nutritional randomized study

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P 193 • Effect of sarcopenia definition on diagnosis of osteosarcopenia and its clinical implications on falls, function and balance in older people

Walter Sepúlveda-Loyola^(1,2,3), Steven Phu^(2,3), Romy Conzade^(2,3,4), Ebrahim Bani Hassan^(2,3), Vanessa Probst⁽¹⁾, Gustavo Duque^(2,3) ⁽¹⁾ Program of Master and Doctoral degree in Rehabilitation Sciences, Londrina State University (UEL) and University North of Paraná (UNOPAR), Londrina, Brazil ⁽²⁾ Department of Medicine - Western Health, Melbourne Medical School, The University of Melbourne, St Albans, Victoria, Australia ⁽³⁾ Australian Institute for Musculoskeletal Science (AIMSS), The University of Melbourne and Western Health, St. Albans, Victoria, Australia ⁽⁴⁾ Helmholtz Zentrum München - German Research Center for Environmental Health (GmbH), Institute of Epidemiology, Neuherberg, (Germany)

P 194 • A meta-analysis on the health risk of low lean mass in older adults

Dottington Fullwood (EdD - University of Florida, Gainesville, FL, USA Erta Cenko - University of Florida, Gainesville, FL, USA Todd Manini, PhD - University of Florida, Gainesville, FL, USA)

P 195 • Osteoporosis, sarcopenia and correlation between SARC-F and skeletal muscle mass by absorptiometry with dual-energy X ray absorptiometry (DXA) in Colombian population: pilot study

Cadena-Sanabria M. MD^{1,2,3}, Castrillon-Rodriguez MP, MD¹, Florez-Gonzalez AM, MD¹, Vergara J, MD¹, Roa A, MD¹, Fonseca L, MD¹, Quintero-Cure J, MD³, Parra-Zuluaga G, MD¹, Garay J, MD¹.¹ Semillero de investigación en Geriatria, Universidad Autónoma de Bucaramanga, ². Universidad Industrial de Santander. ³. Clínica FOSCAL, Bucaramanga, Colombia. ⁴. Universidad Nacional de Colombia.

P 196 • Predictive model for sarcopenia in older adults with chronic kidney disease, a study from Asian population

Ekkaphop Morkphorm MD¹, Chalobol Chalermisri MD², Aksara Kajornkijaroen MD³, Prasert Assantachai MD², Varalak Srinonprasert MD¹.¹ Division of Geriatric Medicine, Department of Medicine, Siriraj Hospital, Thailand ². Division of Geriatric Medicine, Department of Preventive and Social Medicine, Siriraj hospital, Thailand ³. Department of Medicine, Kratumbien hospital, Thailand

OSTEOPOROSIS & FRAILTY**P 197 • The Effect of BPA on Bone Mineral Density(BMD) in Rats**

Hyuntak Kang M.D., Daejin Nam M.D., Hongje Kang M.D. Department of Orthopedic surgery, wonkwang university hospital, Iksan, (Korea)

P 198 • The Relationship Between the FRAX[®]-Brazil and NOGG Platforms Results and the Bone Densitometry as a Complementary Tool in the Evaluation of Fracture Risk in One City of the South of Brazil

Claudia Cipriano Vidal Heluany MD, MSc¹, Gabriela Keller, MD¹, Luan Pedro Santos Rocha², Edson Rodrigues Garcia Filho², Isadora Zaniboni², Maria Eduarda Scherer Costi, MD³, Marian Felisberto, MD³.¹ Geriatric Department, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, Brazil ² Medicine's Student, Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, Brazil ³ Medicine School, UNESC Universidade do Extremo Sul Catarinense, Criciuma, SC, (Brazil)

PHYSICAL EXERCISE**P 199 • Effects of a short term exercise training protocol on the physical function of institutionalized frail older adults**

Cristiane Batisti Ferreira¹, Gleiciane Gontijo Avelar², Athila Teles Dantas Maya¹, Paula Americano do Brasil¹, Vinicius Carolino Souza², Ricardo Moreno Lima³, Aparecido Pimentel Ferreira¹, Otávio Toledo Nóbrega².¹ Interdisciplinary Center for Research, Integrated Colleges Promove Brasília, Brasília, Brazil ² Graduation Program in Sciences, Medical Faculty, University of Brasília (UnB), Brasília, Brazil ³ Graduation Program in Physical Education, University of Brasília (UnB), Brasília, (Brazil)

P 200 • Low-intensity exercise suppresses myostatin pathway through androgen receptor in muscle cells

Bo-Kyung Son^{1,2}, Masato Eto¹, Yuki Ishida¹, Miya Oura¹, Masahiro Akishita¹.¹ Department of Geriatric Medicine, Graduate School of Medicine ² Institute of Gerontology, The University of Tokyo, Tokyo, (Japan)

P 201 • Effects of a center and a home + center-based exercise program in pre-frail older women

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P 202 • Effects of a conventional and a virtual-reality based exercise program in older adults: preliminary results

Larissa Bastos Tavares¹, Idaliana Fagundes de Souza¹, Candice Simões Pimenta de Medeiros¹, Kim Mansur Yano¹, Fabrícia Azevêdo da Costa Cavalcanti¹, Edgar Ramos Vieira².¹ Department of Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil. ² Department of Physical Therapy, Florida International University, Miami, FL, (USA)

P 203 • A new algorithm to monitor physical activity and compliance to a home-based exercise program in (pre)sarcopenic elderly

Lenore Dedeyne¹, Jorgen Wullems², Jolan Dupont¹, Jos Toumoys³, Evelien Gielen^{1,3}, Sabine Verschuere².¹ Gerontology & Geriatrics, Department of Chronic Diseases, Metabolism and Ageing (CHROMETA), KU Leuven, Leuven, Belgium ² Research Group for Musculoskeletal Rehabilitation, Department of Movement Sciences, KU Leuven, Leuven, Belgium ³ Department of Geriatric Medicine, UZ Leuven, Leuven, (Belgium)

P 204 • Comparison of the physical work capacity and the muscular skeletal mass index before and after a supervised and controlled training program once a week for six months

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P 205 • Feasibility study of Electronic Lifestyle Activity Tracker (ELAT)-based intervention for managing general fatigue in community-dwelling frail older people

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P 206 • How is the physical performance according to frailty groups in older Veterans?

Raquel Aparicio-Ugarriza, PhD^{1,2} Marianne Turner, MD², Michael J. Mintzer, MD^{2,3} Hermes Florez, MD, PhD^{1, 2}, Jorge G. Ruiz, MD^{2,4}.¹ Department of Public Health Sciences, Miller School of Medicine, University of Miami, Miami, FL 33136, USA. ² Geriatrics Research, Education, and Clinical Center (GRECC), Miami Veterans Affairs Healthcare System, Miami, FL, USA. ³ FIU Herbert Wertheim College of Medicine, Miami, FL, USA. ⁴ Department of Medicine, Miller School of Medicine, University of Miami, Miami, FL 33136, (USA)

P 207 • Effects of a simultaneous dual-task multicomponent program on physical, cognitive and dual-task performance: the Aging-ONDUAL-TASK study

Ana Rodriguez-Larad, PhD¹, Haritz Arrieta MSc¹, Jon Irazusta PhD¹, Susana Maria Gil PhD¹, Jose Javier Yanguas PhD², Ander Espin BSc¹, Maider Kortajarena PhD³, Inmaculada Lora BSc¹, Chloe Rezola-Pardo MSc^{1,1}.¹ Department of Physiology, University of the Basque Country, Leioa, Bizkaia, Spain ² Fundación Bancaria La Caixa, Programa de Mayores. Palma (Illes Balears), Spain ³ Department of Nursing II, University of the Basque Country, Donostia-San Sebastian, Gipuzkoa, Spain. ⁴ DomusVi, Donostia-San Sebastian, Gipuzkoa, (Spain)

P 208 • Effects of Music-based Multitask Exercise (Jaques-Dalcroze Eurhythmics) versus Multicomponent Exercise on Physical Function, Falls and Brain Plasticity in Older Adults: A Randomized Controlled Trial

Mélany Hars, PhD¹, Natalia Fernandez, PhD², François Herrmann, MD³, René Rizzoli, MD¹, Gabriel Gold, MD³, Patrik Vuilleumier, MD², Andrea Trombetti, MD^{1,3}.¹ Division of Bone Diseases, Department of Internal Medicine Specialties, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland ² Laboratory for Behavioural Neurology and Imaging of Cognition, Campus Biotech, University of Geneva, Geneva, Switzerland ³ Division of Geriatrics, Department of Internal Medicine, Rehabilitation and Geriatrics, Geneva University Hospitals and Faculty of Medicine, Thônex, Switzerland

P 209 • Accuracy of total and exercise steps on a pedometer compared to a smartphone application

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P 210 • Insulin resistant older obese women are better responders to resistance training

Philippe Noiret PhD^{1,2}, Sami Behaïem¹, Anthony D. Karelis PhD², Mylène Aubertin-Leheudre PhD², Jean-Frédéric Brun MD, PhD³.¹ UFR STAPS - IRMES, EA7329, Université Paris Descartes, Paris, France ² Département des sciences de l'activité physique, UQAM, Montréal, Canada ³ CHU, Université de Montpellier, Montpellier, (France)

P 211 • Effects of body mass-based resistance training, including explosive motion on muscle functions in community-dwelling elderly: A randomized controlled trial-quick report

Tomoharu Kitada¹, Aiko Inoue¹, Hiroyuki Umegaki², Joji Onishi², Hiroshi Akima², Koji Ishida², Masahumi Kuzuya^{2,1}.¹ Institute of Innovation for Future Society, Nagoya University, Nagoya, Japan. ² Department of Community Healthcare & Geriatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan. ³ Research Center of Health, Physical Fitness & Sports, Nagoya University, Nagoya, (Japan)

P 212 • Both Neuromotor and Resistance training improve functional mobility and physical fitness in healthy older women

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P 213 • Resistance exercise program and food re-education in the control of non transmissible chronic diseases

Joan Faber, MD. Surgery Specialist Hospital and Emergency Room (HPS) Myrian Abecassis Faber, PhD. Universidade do Estado do Amazonas/ LPEMH - Laboratory of Research and Studies in Human Motricity Samara da Silva Feitosa, Mstnda ; Universidade do Estado do Amazonas/LPEMH - Laboratory of Research and Studies in Human Motricity José David e Silva Gomes, Physical Education professional.; LPEMH - Laboratory of Research and Studies in Human Motricity Rildo Figueiredo Pinheiro, MSc. Universidade do Estado do Amazonas/ LPEMH - Laboratory of Research and Studies in Human Motricity (Brazil)

BIOLOGY

P 214 • Transformation of mature osteoblasts into bone lining cells and RNA-seq based transcriptome profiling of mouse bone during mechanical unloading

S Kim, Seoul National University College of Medicine and Boramae Medical Center; A Ram Hong Kwangsoo Kim Ji Yeon Lee Jae-Yeon Yang Jung Hee Kim, South Korea (Seoul)

STEM CELL

P 215 • Effects of Mesenchymal Stem Cells Transplantation on Cognitive Deficits in Animal Models of Alzheimer's Disease

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FUNCTIONAL ASSESSMENT

P 216 • Gender differences in trajectories of physical performance in older adults: Findings from the International Mobility in Aging Study

Tamer Ahmed⁽¹⁾, Presenting *Simon French*⁽²⁾, *Emmanuelle Belanger*⁽³⁾, *Ricardo Guerra*⁽⁴⁾, *Maria Victoria Zunzunegui*⁽⁵⁾, *Mohamed Auais*⁽¹⁾⁽¹⁾, Queens University, Kingston, ON, Canada⁽²⁾ Macquarie University, Sydney, Australia⁽³⁾ Brown University, Providence, USA⁽⁴⁾ Universidade Federal do Rio Grande do Norte, Natal, Brazil⁽⁵⁾ University of Montreal, Montreal, QC, (Canada)