

Preliminary program

Toulouse '11 / Orlando '12 / Séoul '13 / Barcelona '14 / Boston '15 / Philadelphia '16 / Barcelona '17 / Miami Beach '18

9th EDITION

ICFSR 2019

International Conference on
Frailty & Sarcopenia Research

February 20-22, 2019 • Miami Beach, USA

LATE CALL FOR ABSTRACTS
January 2-14, 2019



JFA

All abstracts and proceedings
will be published in
the Journal of Frailty and Aging
JFA is indexed
in PubMed/Medline



www.icfsr.com

- 8:30/9:00 **WELCOME**
Marco PAHOR (Gainesville, USA), Bruno VELLAS (Toulouse, France), Jorge RUIZ (Miami, USA), Matteo CESARI (Roma, Italy), Roger FIELDING (Boston, USA)
- 9:00/9:20 **KEYNOTE 1**
DO-HEALTH TRIAL *Chairman : B.Vellas, Toulouse France*
Heike Bischoff 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
Symposium moderator and affiliations: 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**
RACE DEPENDENT CHANGES TO GENE EXPRESSION IN FRAIL, MIDDLE AGED ADULTS
Calais S. Prince PhD1, Nicole Noren Hooten PhD1, Nicolle 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. Singh (1), P. A. Andreux (1), W. Blanco-Bose (1), P. Aebischer (2), J. Auwerx (3) C. Rinsch (1) - (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 **COFFE BREAK – POSTERS**
- 11:05/11:20 **CONFERENCE 3**
ALLOGENEIC BONE MARROW-DERIVED MESENCHYMAL STEM CELLS AS A TREATMENT FOR AGING RELATED INDICATIONS
J Hare, Longeveron LLC: Miami, FL, USA
- 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, Mark Kennedy1, 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
- 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, BSE [1]; Mayu Sasaki, MPH [1]; Nathaniel Hupert, MD, MPH [2]; Jackie Finik, MPH [1]; Steven K. Magid, MD [1][2] [1] Hospital for Special Surgery, New York, NY [2] Weill 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; (2) Blue 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 Vetrano1,2; Anna Marseglia1; Nicola Vanacore3; Erika Laukka1, Anna-Karin Welmer1; Laura Fratiglioni1,4 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, MPH2, Cyrus Cooper, FMedSci1 (1) MRC 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 Negm1,2, Courtney C Kennedy1,3, Ian D Cameron4, Lehana Thabane5, Areti-Angeliki Veroniki,6,7, Jonathan D. Adachi3, Julie Richardson2, Maria Petropoulou6, Saad Alsaad8, Papaioannou1,3 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, Department of Family and Community Medicine, College of Medicine, King Saud University, Riyadh, Saudi Arabia

12:30/1:50

LUNCH BREAK – POSTERS

1:50/2:35

SYMPOSIUM 2

NOVEL TARGETS FOR TREATING PHYSICAL AND COGNITIVE SYMPTOMS OF FRAILTY

Symposium moderator and affiliations: Tom Buford, University of Alabama at Birmingham, Department of Medicine

• Neuroinflammation as a contributor to cognitive and physical frailty

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

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

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

Todd Manini, University of Florida, Department of Aging and Geriatric Research

• The Gut Microbiome as a Target for Physical and Cognitive Frailty

Tom Buford, University of Alabama at Birmingham, Department of Medicine

2:35/2:55

KEYNOTE 2

EFFECT ON PROTEIN INTAKE ON MUCLE MASS, PERFORMANCE AND PHYSICAL FUNCTION IN FONCTIONALLY LIMITED OLDER ADULTS

*Chairman : M Pahor, Gainesville, FL,USA
Shalender Bhasin, Harvard Medical School, Boston USA*

2:55/3:25

COFFEE BREAK – POSTERS

3:25/3:55

PANEL DISCUSSION

PANEL DISCUSSION ON INTERNATIONAL CLINICAL PRACTICE GUIDELINES FOR SARCOPENIA (ICFSR): SCREENING, DIAGNOSIS AND MANAGEMENT

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

3:55/4:40

SYMPOSIUM 3

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

Symposium moderator and affiliations: 1) Leocadio Rodriguez Manas, MD, PHD, Director GARN-IAGG scientific Director of ciberfes, head of the department of geriatrics, hospital universitario de Getafe, Spain - 2) 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 1089 Veterinary Medicine Drive UC Davis, 95616

• The role of bioenergetics in human frailty

Jeremy D. Walston, M.D.- Raymond and Anna Lublin Professor of Geriatric Medicine Johns Hopkins Asthma and Allergy Center

4:40/4:50

ORAL COMMUNICATION 5

INHIBITION OF KYNURENINE 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, GA 30912, 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, MPH 3, John A Robbins MD, MPH 4, Jane A Cauley DrPH 5, Joachim H Ix MD 6, Kenneth J Mukamal MD, MPH 7 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

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 Walston⁴, 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, MD1, Yao Lu, ScM2, Larry Yao, MD3, Karla V. Ballman, PhD2, Patrick Kortebein, MD1, Robert J. Canter, MD1, Leon Lenchik, MD4, Robert D. Boutin MD1 (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) Department 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 MSc1, Carolyn Anne Greig PhD2, Karina Pfrimer PhD1, Priscila Carvalho MSc 3, 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 PhD1.

(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

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

Pierre Dilda1, Mathilde Latil1, Maria Serova1, Blaise Didry-Barca1, Sissi On1, Stanislas Veillet1,

René Lafont2 1 Biophytis, Sorbonne Université, BC9, 4 place Jussieu, 75005 Paris, France 2 Sorbonne Université,

UPMC Univ Paris 06, Paris-Seine Biology Institute (BIOSIPE), CNRS, 75005 Paris, France

5:40 – 5:50

ORAL COMMUNICATION 11 • LATE BREAKING NEWS

5:50 – 6:00

ORAL COMMUNICATION 12 • LATE BREAKING NEWS

- 8:00/9:00 **BREAKFAST INDUSTRY SYMPOSIUM:** *Hosted by Amazentis*
NEW PARADIGM (MITOCHONDRIAL FUNCTION TO ADDRESS MUSCLE HEALTH) VS. OLD PARADIGM (BOOSTING MUSCLE MASS)
- 9:00/9:15 **PRESENTATION OF THE ICFSR LIFETIME ACHIEVEMENT AWARD**
Jack Guralnik, Philadelphia, USA
- 9:15/9:35 **KEYNOTE 3**
INTRINSIC CAPACITY
Matteo Cesari, University of Milan (Milan, Italy)
- 9:35/10:05 **SYMPOSIUM 4**
THE ROLE OF MITOCHONDRIAL FUNCTION IN CONDITIONS OF ACCELERATED AGING: IMPLICATIONS FOR NUTRITIONAL THERAPY
Chairman : R. Fielding, Boston, MA, USA
- 10:05/10:25 **KEYNOTE 4** *Chairman : R. Fielding, MA, USA*
BIOMARKER AND BIOLOGY OF FRAILTY
Jeremy Walston, Johns Hopkins University, Baltimore, USA
- 10:25/10:55 **COFFE BREAK – POSTERS**
- 10:55/11:10 **CONFERENCE 6**
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
- 11:10/11:25 **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.(1) Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, USA
- 11:25/11:40 **CONFERENCE 8**
DEVELOPMENTS IN THE PATHOPHYSIOLOGIC BASIS OF FRAILTY IN TYPE 2 DIABETES AND EMERGING ROLES OF APELIN IN FUTURE CLINICAL TRIALS
Cedric DRAY, INSERM (France)
- 11:40/11:50 **ORAL COMMUNICATION 16**
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*
- 11:50/12:00 **ORAL COMMUNICATION 17**
DIETARY SUPPLEMENTATION WITH FISH OIL AND CURCUMIN IMPROVES GAIT SPEED AND MITOCHONDRIAL FUNCTION DURING AGING
Claire Boutry-Regard, PhD 1, Laurent Mosoni, PhD 2, Lydie Combaret, PhD 2, Christiane Deval 2, Lenaick Dupuis, MSc 1, Eugenia Migliavacca, PhD 3, Gabriele Civiletto, PhD 3, Jerome N. Feige, PhD 3, Dominique Dardevet, PhD 2, Denis Breuille, PhD 11 Nestle Research, Vers-chez-les-Blanc, Lausanne 26, Switzerland ; 2 Universite Clermont Auvergne, INRA, UNH, CRNH Auvergne, Clermont-Ferrand, France; 3 Nestle Research, EPFL Innovation Park, 1Lausanne, Switzerland
- 12:00/12:10 **ORAL COMMUNICATION 18**
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
- 12:10/12:20 **ORAL COMMUNICATION 19**
AGING-ASSOCIATED LOSS OF HYPOXIA SIGNALING LIMITS SKELETAL MUSCLE REGENERATION
Indranil Sinha MD1,4, 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

12:20/12:30

ORAL COMMUNICATION 20

DYNAPENIA IS ASSOCIATED WITH EXECUTIVE DYSFUNCTION. RESULTS FROM THE GAIT AND BRAIN STUDY
Montero-Odasso M MD PhD AGSF FRCPC1,2,3, Sakurai R PhD4, Bray NW MSc1,3,5, Pieruccini-Faria F PhD1,3, Sarquis-Adamson Y1 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, Japan5 School of Kinesiology, Faculty of Health Sciences, University of Western Ontario, London, ON, Canada

12:30/1:30

LUNCH INDUSTRY SYMPOSIUM

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

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

René Lafont1,2, Pierre Dilda1, Laurence Dinan1 and Stanislas Veillet1 1 Biophytis, Sorbonne Université, BC9, Paris, France 2 Sorbonne Université, UFR 927, IBPS-BIOSIPE, CNRS, 75005 Paris, France

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

Waly Diah1, Cendrine Tourette1 Carole Margalef1, René Lafont1 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 06, CNRS - Institut de Biologie Paris Seine (BIOSIPE), Paris, France3 Bluecompanion Ltd, London, United Kingdom

1:50/ 2:35

SYMPOSIUM 5

SPECIAL CONSIDERATIONS OF THE CANCER PATIENT WITH SARCOPENIA AND FRAILTY

Symposium moderator and affiliations: 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 I (equivalent to Assistant Professor) Division of Research Kaiser Permanente Northern California

2:35/2:55

KEYNOTE 5

BIOMARKERS FOR SARCOPENIA Chairman : M. Cesari, Milano, Italy

Bill Evans, Duke University, Durham, USA

2:55/3:25

COFFEE BREAK – POSTERS

3:25/3:55

PANEL DISCUSSION

PANEL DISCUSSION ON 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)

3:55/4:40

SYMPOSIUM 6

OSTEOSARCOPENIA: ENOUGH EVIDENCE FOR A DISTINCT ENTITY?

Symposium moderator : Islene Araujo de Carvalho, Roger Fielding.

• **Welcome and introduction:** Jean-Yves Reginster

• **Osteosarcopenic obesity: Facts and evidence supporting a distinct entity:** Jurgen Bauer

• **Osteosarcopenic obesity: Lack of evidence supporting a distinct entity:** Alfonso Cruz Jentoft

• **Discussion** (Leader: René Rizzoli): Islene Araujo de Carvalho, Jürgen Bauer, Olivier Bruyère, Cyrus Cooper, Alfonso Cruz Jentoft, Roger Fielding, Jean-Marc Kaufman, Médéa Locquet, Jean-Yves Reginster.

• **Conclusion:** Cyrus Cooper

- 4:40/4:50 **ORAL COMMUNICATION 21**
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 22**
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 23**
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, ARNP4, 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 24**
THRESHOLD DEFINITION FOR GRIP STRENGTH TO IDENTIFY RELEVANT WEAKNESS IN SWISS DO-HEALTH PARTICIPANTS
Michael Gagesch, MD1,2, Lauren Abderhalden, PhD1,2, Reto W. Kressig, MD3, Bruno Vellas, MD4, René Rizzoli, MD5, Gregor Freystätter, MD1,2, Heike A. Bischoff-Ferrari, MD,DrPH1,2 for the DO-HEALTH investigators
- 5:20/5:30 **ORAL COMMUNICATION 25**
ASSOCIATION BETWEEN NUTRIENT INTAKE, PHYSICAL ACTIVITY AND SARCOPENIA-RELATED GENE-PROMOTOR DNA METHYLATION
Lingxiao He MS1,2, Praval Khanal MS1,2, 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 26**
USING SOCIALLY ASSISTIVE ROBOTS FOR MONITORING AND PREVENTING PHYSICAL FRAILTY AMONG OLDER ADULTS: A STUDY ON USABILITY AND USER EXPERIENCE
Lex van Velsen1,2, Richelle A.C.M. Olde Keizer1, Mathieu Moncharmont3, Brigitte Riche3, Nadir Ammour3, Gianluca Zia4,5, Hermie Hermens1,2, Aurèle N'Dja3 and Susanna Del Signore5 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, United Kingdom
- 5:40/5:50 **ORAL COMMUNICATION 27 • LATE BREAKING NEWS**
- 5:50/6:00 **ORAL COMMUNICATION 28 • LATE BREAKING NEWS**

8:00/9:00

BREAKFAST INDUSTRY SYMPOSIUM:

TRENDS IN ANTI-AGING RESEARCH AIMED AT EXTENDING THE HEALTHSPAN

Joshua M. Hare, MD - Co-Founder & Chief Science Officer, Longeveron LLC

Pinchas Cohen, MD - Dean, USC Leonard Davis School of Gerontology

S. Jay Olshansky, Ph.D. School of Public Health University of Illinois at Chicago Division of Epidemiology and Biostatistics

9:00/ 9:10

ORAL COMMUNICATION 29

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 30

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.

9:20/9:30

ORAL COMMUNICATION 31

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

9:30/10:15

SYMPOSIUM 7

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

• **Disparate Measurement as well as Status? Frailty Criteria Manifest Differently in Blacks and Whites**
Karen Bandeen-Roche, PhD. Johns Hopkins Bloomberg School of Public Health

• **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

• **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

10:15/10:30

CONFERENCE 9

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, PhD3, 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

Gustavo Duque, MD, PhD, FRACP, FGSA Professor and Chair of Medicine – Western Health Director – Australian Institute For Musculoskeletal Science (AIMSS) President – Australian and New Zealand Society for Sarcopenia and Frailty Research

- 10:45/11:15 **COFFEE BREAK – POSTERS**
- 11:15/11:30 **CONFERENCE 11**
ROLE OF MALNUTRITION IN THE DEVELOPMENT OF FRAILTY AND COST IMPLICATIONS AMONG COMMUNITY-DWELLERS
Leocadio Rodríguez-Mañas MD, PhD - Geriatric Department Fundación de Investigación Biomédica, Hospital Universitario de Getafe, Getafe, Spain Suzette Pereira, PhD- Abbott Nutrition, Columbus, OH, USA
- 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 32**
NETWORK ANALYSIS OF FRAILTY AND AGING: EMPIRICAL DATA FROM THE MEXICAN HEALTH AND AGING STUDY
Carmen García-Peña, Ricardo Ramírez-Aldana, Lorena Parra-Rodriguez, Juan Carlos Gómez-Verján, Mario Ulises Pérez-Zepeda, Luis Miguel Gutiérrez-Robledo. Instituto Nacional de Geriatria (Mexico)
- 12:10/12:20 **ORAL COMMUNICATION 33**
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.
Huisingsh-Scheet M1, Kocherginsky M2, Ferguson M3, Huang E4, Schumm LP5, Waite L6 1 University of Chicago Medicine, Department of Medicine, Section of Geriatrics and Palliative Care Medicine, Chicago, IL 2 Northwestern University, Department of Preventive Medicine, Chicago, IL 3 University of Chicago Medicine, Department of Surgery, Section of Thoracic Surgery 4 University of Chicago Medicine, Department of Medicine, Section of General Medicine, Chicago, IL 5 University of Chicago, Department of Public Health Sciences, Chicago, IL 6 University of Chicago, Department of Sociology & NORC
- 12:20 – 12:30 **Oral Communication 34 • LATE BREAKING NEWS**
- 12:30 – 1:50 **LUNCH BREAK – POSTERS**
- 1:50 – 2:35 **SYMPOSIUM 8**
SELECTION OF RELEVANT OUTCOMES IN SARCOPENIA: A DISCRETE CHOICE EXPERIMENT
Symposium moderator: Mickaël Hiligsmann, Charlotte Beaudart
 - **Welcome and introduction:** *Jean-Yves Reginster*
 - **Identification and prioritization of important outcomes for patients in sarcopenia:** *Charlotte Beaudart*
 - **Results from the cross-European Discrete Choice Experiment:** *Mickaël Hiligsmann*
 - **Discussion (Leader: Fanny Buckinx):** *Islene Araujo de Carvalho, Jürgen Bauer, Charlotte Beaudart, Olivier Bruyère, Cyrus Cooper, Alfonso Cruz-Jentoft, Mickaël Hiligsmann, Jean-Marc Kaufman, Jean-Yves Reginster, René Rizzoli.***Conclusion:** *Olivier Bruyère*
- 2:35/2:45 **Oral Communication 35 • LATE BREAKING NEWS**
- 2:45/2:55 **Oral Communication 36 • LATE BREAKING NEWS**
- 2:55/3:05 **Oral Communication 37 • LATE BREAKING NEWS**
- 3:05/3:15 **Oral Communication 38 • LATE BREAKING NEWS**

3:15/3:45

COFFEE BREAK – POSTERS

3:45/3:55

ORAL COMMUNICATION 39

BIOMARKERS OF SARCOPENIA IN VERY OLD PATIENTS WITH HIP FRACTURE

Alfonso-José 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 PhD2.

(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 40

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), MCI4; Audrey Yeo, BMS3; Suzanne Yew, BSN3; Yew-Yoong Ding, MBBS, FAMS, FRCP (Edin), PhD2,3; Wee-Shiong Lim, MBBS, MRCP (UK), MMed (Int Med), MHPEd, AGSF, FAMS2,3

(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 41

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 42

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

END OF ICFSR

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* PhD1,2, *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 Antoun 1, *Emma Garratt* 1, *Alicja Baczynska*2, *Sheila J Barton*3, *Philip Titcombe*3, *Mark A Burton* 1, *Leo Westbury*3, *Sarah Shaw*3, *Richard Dodds*4,5, *Holly E Syddall*3, *Helen C Roberts*2,6, *Avan A Sayer* 4,5, *Cyrus Cooper* 3,6, *Harnish P Patel*7, 2,3,6, *Keith M Godfrey*7, 3,6, *Karen A Lillycrop*7, 6,7, Joint senior authors, 1Human Development and Health Academic Unit, Faculty of Medicine, University of Southampton, UK; 2Academic Geriatric Medicine, Faculty of Medicine, University of Southampton; 3 MRC Lifecourse Epidemiology Unit, University of Southampton; 4AGE Research Group, Institute of Neuroscience, Newcastle University, UK; 5NIHR Newcastle Biomedical Research Centre; Newcastle University and Newcastle upon Tyne Hospitals NHS Foundation Trust, 6NIHR Southampton Biomedical Research Centre, University of Southampton & University Hospital Southampton NHS Foundation Trust, UK; 7Biological 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 Pfimer* 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 São 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

Armanda Teixeira-Gomes, MD1,2, *Filipa Esteves*, MD1,2, *Ana Catarina Sousa*, MD, PhD3,4,5, *M. Ramiro Pastorinho*, MD, PhD3,4,6, *Joana Carvalho*, MD, PhD7, *Vanessa Valdiglesias*, MD, PhD1,8, *João Paulo Teixeira*, MD, PhD1,2, *Solange Costa*, MD, PhD1,2 (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)NuESA, 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, PhD 1, *Salvador J. Jaime*, PhD 2, *Michael J. Ormsbee*, PhD 3, *Arun Maharaj*, MS 1, *Justin Mason* PhD 4. [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 Hiromine*, MD, PhD3, *Kei Kamide*, MD, PhD5, *Katsuhiko Kohara*, MD, PhD6, *Masahiro Fukuda*, MD, PhD7, *Tomohiro Katsuya*, MD, PhD8,9, *Haruhiko Osawa*, MD, PhD4, *Hiroshi Rakugi*, MD, PhD11. Department of Geriatric and General Medicine, Osaka University Graduate School of Medicine, Suita, Japan2. Center for Genomic Medicine, Kyoto University Graduate School of Medicine, Kyoto, Japan3. 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, Japan6. Department of Regional Resource Management, Faculty of Collaborative Regional Innovation, Ehime University, Matsuyama, Japan7. Fukuda Clinic, Osaka, Japan8. Katsuya Clinic, Amagasaki, Japan9. Department of Clinical Gene Therapy, Osaka University Graduate School of Medicine, Suita, (Japan)

P 7 • Frailty and potential biomarkers of aging

Geereddy 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- 500007, (India)

BIOMARKERS AND IMAGING

P 8 • Serum creatinine and cystatin C based index can be a screening biomarker for sarcopenia in older population

Sunny Singhal MD1, *Sumitabh Singh* MD1, *Srikant 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 9 • Identification and Characterization of New Biochemical Markers for Sarcopenia

Henrotin Y1, 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 10 • 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 Okumura*2, *Shinya Takiyama*2, *Yumi Umeda-Kameyama* MD, PhD1, *Masahiro Akishita* MD, PhD1 1Department of Geriatric medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan 2Benesse Style Care Co., Ltd., Tokyo, (Japan)

P 11 • 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. Dr. Residente de 2o año, Medicina de la Actividad Física y el Deporte. Fundación Universitaria de Ciencias de la Salud. (Colombia)

P 12 • Diagnosing sarcopenia at the point of imaging care: Prospective integration of functional and opportunistic CT data

Patrick M. Kortbein 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 13 • A systematic review of the secretome of skeletal muscle cells

Antoine Florin, PhD student1, *Cécile Lambert*, PhD1, *Christelle Sanchez*, PhD1, *Ali Mobasher*, Pr4,5, *Yves Henotin*, Pr1,2,3 (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 14 • Assessment of Visceral Adipose Tissue by MRI and BIA

O Chaudry, University of Erlangen-Nürnberg, Institute of Medical PhysicsAlexandra 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)

EPIDEMIOLOGY

P 15 • Effects of multimorbidity and frailty on functional disability in individuals aged 80 years or older

F. Borim Faculty of Medical Sciences - University of Campinas Rua Tessália Vieira de Camargo, 126 – Cidade Universitária Zeferino Vaz 13083-887 Brazil *Campinas São Paulo* *Naelly Renata Saraiva Pivetta* - Faculty of Medical Sciences - University of Campinas Anita Liberallesso Neri - Faculty of Medical Sciences - University of Campinas Ligiana Corona - Faculty of Applied Sciences - University of Campinas *André Fattori* - Faculty of Medical Sciences - University of Campinas *Monica Sanches Yassuda* - School of Arts, Science and Humanities (EACH) - University of São Paulo (Brazil)

P 16 • 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 Ribeirão Preto (Brazil)

P 17 • 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 Liberallesso Neri - Faculty of Medical Sciences - University of Campinas *Ivan Arahamian* - Faculty of Medicine of Jundiá and Faculty of Medicine - University of São Paulo *Samila Sathler Tavares 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 18 • 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*2 *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 19 • 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 20 • EWGSOP 2 versus EWGSOP 1: impact on the prevalence of sarcopenia and its outcomes

*Locquet Médéa*1, Beaudart Charlotte1, Petermans Jean2, Reginster Jean-Yves1, Bruyère Olivier1 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 21 • Determinants and Health Consequences of a Rapid Muscle Health Decline in Older adults from the SarcoPhAge study

*Locquet Médéa*1, PhD Candidate, Charlotte Beaudart1, PhD, Jean-Louis Croisier; PhD2,3, Jean-Yves Reginster1, MD, PhD, , Olivier Bruyère1,3, PhD 1 - 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 22 • Transfer of nursing home residents to emergency departments : analysis of iatrogeny cases within FINE cohort

Cambon Amandine c 2- McCambridge Cécile ac 3- Cool Charlene cde 4- Magre Elodie ac 5- Qassemi Soraya ac 6- Laborde Charlotte c 7- Rolland Yves ad 8- Perrin Amélie a 9- Néda Tavassoli a 10- Céline Mathieu ac Toulouse University Hospital (France)

P 23 • 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(c) 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 24 • Association between sarcopenia and obesity eluavated throught four different methods in socially active elderly women

Valéria Baccarin Ianiski,1 Karen Mello de Mattos Margutti,2 Rita Mattiello,3 Carla Helena Augustin Schwanke1 1 Graduate Program in Biomedical Gerontology, School of Medicine, Pontifical Catholic University of Rio Grande do Sul (PUCRS); 2 Nutrition Course, Area of Knowledge of Life Science, University of Caxias do Sul (UCS). 3 Graduate Program in Medicine and Health Science, School of Medicine, Pontifical Catholic University of Rio Grande do Sul (PUCRS) (Brazil)

P 25 • Assessment of body composition in elderly adults without undernutrition of an ambulatory rehabilitation unit

Marcela Arias Barredo, MD, PhD1, Karen Urra LD2, Pablo Gallardo MD, PhD3 (1) Physician Chief, 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 26 • 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)

COGNITIVE FRAILTY

P 27 • Frailty as a predictor of cognitive disorders: a systematic review and meta-analysis

Marcus Kiiti Borges (1), Marco Canevelli (2), Matteo Cesari (3), *Ivan Aprahamian* (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. (Brazil)

P 28 • 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 Aprahamian*, 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 29 • Cognitive Frailty: results from SABE Colombia Study

*Estephania Chacón-Valenzuela*1,2, Elly Morros-González 1,2, Maíra Paula Vargas-Beltrán1,2, Luis Carlos Venegas-Sanabria1,2, Diego Chavarro-Carvajal1,2, Carlos Alberto Cano-Gutiérrez1,2 1. 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 30 • 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 31 • 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 Cabett Cipolli - University of São Paulo Flávia Arbex Borim - State University of Campinas André Fattori - State University of Campinas Lijana Pires Corona - State University of Campinas Anita Liberalesso Neri - State University of Campinas Ivan Aprahamian - Jundiá Medical School (Brazil)

P 32 • 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 33 • 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 Kieman-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 34 • 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 35 • 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)

FUNCTIONAL ASSESSMENT

P 36 • Comparison of diagnostic criteria for identification of sarcopenic obesity in adults with knee osteoarthritis

Kristine Godziuk, PhD Candidate1, Carla M. Prado, PhD2, Linda J. Woodhouse, PhD3, Mary Forhan, PhD4 (1) Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada (2) Department of Agricultural, Food and Nutritional Science, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta, Edmonton, Alberta, Canada (3) Department of Physical Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, Canada (4) Department of Occupational Therapy, Faculty of Rehabilitation Medicine, University of Alberta, Edmonton, Alberta, (Canada)

P 37 • 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)

P 38 • Evaluation of Sleep Disorders and Accompanying Factors Evaluation of Sleep Disorders and Accompanying Factors

Banu Ozulu Turkmen Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics (Turkey)

P 39 • Functional assessment of the workability, functional decline and frailty in the elderly subjects

Olena Tomarevska MD, PhD, Oleksandr Poliakov MD, PhD Laboratory Occupational-Labor Rehabilitation, Social gerontology and Public Health Department, Institute of Gerontology by D.F. Chebotarev of National Academy of Medical Sciences of Ukraine, Kyiv, (Ukraine)

P 40 • Findings of a Systematic Review of Psychometric Properties for Daily Activities (ADL) Questionnaires for Older Community-Dwelling Persons: A Systematic Review

Marijke Hopman-Rock, PhD MSc MA,1 Helmi van Hirtum MSc,1 Paul de Vreede, PhD,2 *Ellen Freiburger*, PD PhD,3 1 Research center Body@Work TNO (Netherlands Organization for Applied Scientific Research) and VU University Medical Center, Leiden/Amsterdam, The Netherlands. 2 Department of Public Health, Erasmus MC, University Medical Center Rotterdam, The Netherlands 3 Institute for Biomedicine of Aging, Friedrich-Alexander University Erlangen-Nürnberg, Nuremberg, (Germany)

P 41 • Correlation between clinical questionnaires and gait parameters with foot pressure patterns in patients with knee osteoarthritis

Si-hyun Kim, PT, PhD1, *Kyue-nam Park* PT, PhD2 (1) Department of physical therapy, Sangji University, Wonju, South Korea (2) Department of physical therapy, College of Medical Science, Jeonju University, Jeonju, (South Korea)

P 42 • Investigation of the influence of the interaction between skeletal muscle mass and fat mass on muscle strength and performance in Japanese older people

*Kiyoshi Tozaki*1, Kamide Naoto1, 2, Takuya Maeda3, Tetsuharu Nakazono4, Sakamoto Miki2, Haruhiko Sato1, 2, Yoshitaka Shiba2, Naonobu Takahira1, 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 43 • 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 44 • Developing a novel tool for the assessment of physical frailty in older adults with a diagnosis of psychiatric disorder

J Sutton Department of Old Age Psychiatry, King's College London Department of Old Age Psychiatry, IoPPN, King's College London, Box PO70, De Crespigny Park, London United Kingdom London Dr Rebecca Gould, Division of Psychiatry, University College London Professor Robert Howard, Division of Psychiatry, University College London (UK)

P 45 • Exploring how best to conceptualize and measure frailty indicators in the context of psychiatric disorders: Results from two Delphi studies

J Sutton Department of Old Age Psychiatry, King's College London Department of Old Age Psychiatry, IoPPN, King's College London, Box PO70, De Crespigny Park, London SE5 8AF United Kingdom London Dr Rebecca Gould, Division of Psychiatry, University College London Professor Robert Howard, Division of Psychiatry, University College London (UK)

P 46 • Índice de reserva funcional determinado mediante balance rehabilitation unit: seguimiento de personas adultas mayores con alteracion del equilibrio

Marcela Arias Barredo, instituto nacional de geriatría Maria vVictoria Figueroa sSouper, instituto nacional de geriatría Santiago de Chile (Chile)

P 47 • Congenital, untreated, severe isolated growth hormone deficiency predisposes or protects against frailty and sarcopenia?

*Miburge Bolivar Gois-Junior*1,2, *Alana Lalucha Guimarães*2, *Giulliani Moreira Brasileiro*2, *Ananda A Santana-Ribeiro*2, *Jansen Atier Estrazulas*1, *Cesar Ferreira Amorim*1, *Fernanda Gonçalves Civitella*1, *Inaê Caroline Gadotti*1, *Manuel Herminio Aguiar-Oliveira*3, *Roberto Salvador*4, & *Edgar Ramos Vieira*1 1- Department of Physical Therapy, Florida International University, Miami, Florida, USA. 2- Laboratory of Motor Control and Body Balance, Center for Health Science Research, Federal University of Sergipe, Aracaju, Sergipe, Brazil 3- Division of Endocrinology, Federal University of Sergipe, Aracaju, Sergipe, Brazil. 4- Division of Endocrinology, Diabetes and Metabolism, Johns Hopkins University, Baltimore, Maryland, Baltimore, (USA)

P 48 • Remotely captured daily mobility pattern in age-related sarcopenia. A pilot clinical study

*Lorenzo Maria Donini*1, *Alberto Rainoldi*2, *Eleonora Poggogalle*1, *Luca Carlo Feletti*3, *Gianluca Zia*3,4 and *Susanna Del Signore*4 1 Sapienza University, Rome, Italy 2 NeuroMuscularFunction Research group, School of Exercise and Sport Sciences, Department of Medical Sciences - University of Turin, Italy 3 Caretek srl, Torino, Italy 4 BlueCompanion Ltd, London, (UK)

P 49 • Functional reserve index determined through balance rehabilitation unit: follow-up of older adults with balance alteration

Marcela Arias Barredo MD, PhD1, *Maria Victoria Figueroa Souper* LD2, (1) Physician Chef, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile, Chile (2) Physical therapist, Geriatric Hospital Day, National Institute of Geriatrics, Santiago de Chile, (Chile)

P 50 • How young is your Muscle? Functional Assessment with Ageing

*Swati Banerjee*1,2, *Loubna Imrani*1,4, *Sofiane Boudaoud*1,4, *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 51 • Accuracy of inertial sensors vs optical motion capture system for analysis of movement - preliminary results

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

P 52 • Instrumented Trail-Making Task: Application of wearable sensor to determine physical frailty phenotypes

He Zhou, and *Bijan Najafi* Baylor College of Medicine - Baylor College of Medicine - Houston Texas (USA)

CLINICAL TRIALS

P 53 • Exercise rehabilitation in older, sarcopenic and frail patients

*Ellen Freiburger*1 PD PhD; *Monika Siegrist*2 PhD; *Wolfgang Kemmler*3 Prof. PhD; *Cornel Sieber*4 Prof. Dr. *1 Friedrich-Alexander University Erlangen Nuremberg, Institute for Biomedicine of Aging; 2 Institute for Medical Physics (FAU), 4 Hospital Barmherzige Brüder Regensburg (Germany)

P 54 • The FORCE trial: Focus on Reducing Dose-Limiting Toxicities in Colon Cancer with Resistance Exercise (RT): Baseline Functional Status

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

CLINICAL TRIALS AND THERAPEUTICS

P 55 • Vibrational therapy: a non-pharmacological, complementary therapy in the aging-related diseases

Fabrizio Gili MD1, *Luca Cabianca* BS1, *Elisabetta Venturelli* PhD2, *Claudio Maria Zignin* Phd, Associate Professor3 (1) A. O. U. Città della Salute e della Scienza, Department of Quality and Safety of Care, Torino, Italy (2) National Cancer Institute (INT), Research Department, Milan, Italy (3) School of Exercise and Sport Sciences (SUISM), University of Torino, Turin, (Italy)

P 56 • Glutamine supplementation for urinary incontinence: a prospective, randomized controlled, double-blind study

Gulistan Bahat MD (1), *Birkan ?lhan* MD (1), *Nalan Capan* MD (2), *Cihan Kilic*, Physiotherapist (1), *Cenk Yasa* MD (3), *Funda Gungor* MD (3), *Ozlem Persil Ozkan*, Dietician (4), *Ayşe Karan* MD (2), *Mehmet Akif Karan* MD (1) 1 Istanbul University, Istanbul Medical School, Department of Internal Medicine, Division of Geriatrics, Istanbul, Turkey; 2 Istanbul University, Istanbul Medical School, Department of Physical Medicine and Rehabilitation, Turkey; 3 Istanbul University, Istanbul Medical School, Department of Urogynecology, Turkey; 4 Istanbul Arel University, Nutrition and Dietetics, (Turkey)

P 57 • Design, Methods and baseline characteristics of the Fit-Joint Pilot RCT of A Multi-modal Intervention in Frail Patients with Osteoarthritis

Alexandra Papaioannou MD1, 2, *Ahmed M. Negm*, MD, MSc, PhD1,3, *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 58 • Evaluation of safety and efficacy of BIO101, a new investigational drug for Sarcopenia: a double-blind, placebo controlled, randomized clinical trial

*Waly Diah*1, *Cendrine Tourette*1, *Carole Margalef*1, *René Lafont*2, *Philippe Dupont*1, *Pierre Dilda*1, *Stanislas Veillet*1, *Susanna Del Signore*3 and *Samuel Agus*1 1 Biophytis, UMPC – BC9, 4 place Jussieu, 75005 Paris, France 2 Sorbonne Universités, UPMC Univ Paris 06, CNRS - Institut de Biologie Paris Seine (BIOSIPE), 75005 Paris, France 3 Bluecompanion Ltd, London, (UK)

PHYSICAL FRAILTY AND AGE-RELATED BODY COMPOSITION MODIFICATIONS

P 59 • Prevalence of sarcopenia among healthy ambulatory subjects: the sarcopenia begins from 45 years

Christophe de Jaeger 1, MD, *Elena Voronska* 1, MD, *Carla Lamberti* 1, MD, *Saskia Kruskamp* 1, *Patrick Cherin* 2, MD, PhD 1 : Institut de médecine et physiologie de la longévité, 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 60 • Prevalence of osteo-sarcopenia and osteo-sarcopenia obesity in healthy ambulatory subjects older than 45 years in France

Christophe de Jaeger 1, MD, *Elena Voronska* 1, MD, *Carla Lamberti* 1, MD, *Saskia Kruskamp* 1, *Patrik Cherin* 2, MD, PhD 1 : 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 61 • Weight loss and incidence of disability among the oldest old: the fibra study longitudinal findings

L. Corona Faculty of Applied Sciences - University of Campinas Rua Pedro Zaccaria, 1300 Brazil Sao Paulo SPFlavia C. D. Andrade: College of Applied Health Sciences - University of Illinois at Urbana-Champaign Flavia S. A. Borim: Faculty of Medical Sciences - University of Campinas Ivan Aprahamian: Faculty of Medicine of Jundiá André Fattori: Faculty of Medical Sciences - University of Campinas Matteo Cesari: Fondazione (IRCCS) Ca' Granda - Ospedale Maggiore Policlinico, University of Milan, Milan, Italy Monica S. Yassuda: School of Arts, Sciences and Humanities (EACH) - University of São Paulo Anita L. Neri: Faculty of Medical Sciences - University of Campinas (Brazil)

P 62 • Preserved physical fitness is associated with lower 1-year mortality in frail elderly patients with a severe comorbidity burden

K. Åhlund Department of Physiotherapy, NU Hospital Group, Trollhättan, Sweden Department of Physiotherapy, NU hospital. Lärkertorpsvägen a-46173 Sweden *Trollhättan Maria Bäck* PhD, RPT: Department of Medical and Health Sciences, Division of Physiotherapy, Linköping University, Linköping, Sweden, Department of Occupational Therapy and Physiotherapy, Sahlgrenska University Hospital, Gothenburg, Sweden *Björn Karlsson* MD, PhD: Division of Internal and Acute Medicine, NU Hospital Group, Trollhättan-Uddevalla, Sweden, Department of Molecular and Clinical Medicine, Institute of Medicine, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden *Niklas Ekerstad* PhD, MD: Department of Medical and Health Sciences, Division of Health Care Analysis, Linköping University, Linköping, Sweden, Department of Research and Development, NU Hospital Group, Trollhättan, Sweden *Birgitta Öberg* PhD, RPT: Department of Medical and Health Sciences, Division of Physiotherapy, Linköping University, Linköping, (Sweden)

P 63 • Sarcopenia, obesity, and sarcopenic obesity prevalence and respective body composition in middle-aged women

Edgar Ramos Vieira (1), *Maria Socorro Medeiros de Moraes* (2), *Rafaela Andrade do Nascimento* (3), *Mariana Carmem Apolinário Vieira* (3), *Mayle Andrade Moreira* (4), *Saionara Maria Aires da Câmara* (5), *Álvaro Campos Cavalcanti Maciel* (3). 1 - Department of Physical Therapy, Florida International University, Miami, FL, USA. 2 - Health Sciences Center, Federal University of Rio Grande do Norte, Natal, RN, Brazil. 3 - Graduate Program in Physical Therapy, Federal University of Rio Grande do Norte, Natal, RN, Brazil. 4 - Department of Physical Therapy, Federal University of Ceará, Fortaleza, CE, Brazil. 5 - Trairi College of Health Sciences, Federal University of Rio Grande do Norte, Natal, RN, (Brazil)

P 64 • Association between skeletal muscle mass and arterial stiffness in frailty older people

Nariaki Shiraiishi, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University 2. *Kiwako Okada*, 3. *Tajji Noguchi*, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University 4. *Takahiro Hayashi*, Faculty of rehabilitation and care, Seijoh University 5. Department of Comprehensive Community Care Systems, Nagoya University Graduate School of Medicine (Japan)

P 65 • The role of bioelectrical impedance analysis (BIA) in identification of sarcopenia. comparison among different classifications

Sara Tagliaferri, PhD1, *Fulvio Lauretani*, MD2, *Mario Pedrazzoni*, MD1, *Giovanni Passeri*, MD1, *Marcello Maggio*, MD, PhD1,2 (1) Dept. of Medicine and Surgery, University of Parma, Parma, Italy (2) Frailty of Elderly Lab, Geriatric Clinic Unit, University-Hospital of Parma, Parma, (Italy)

P 66 • 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 67 • 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 Poggiogalle 1, *Carla Lubrano* 1, *Lucio Gnassi* 1, *Stefania Mariani* 1, *Mikiko Watanabe* 1, *Andrea Lenzi* 1, *Lorenzo Maria Donini* 1 - Sapienza University, Rome, (Italy)

P 68 • Association between skeletal muscle mass and arterial stiffness in frailty older people

Nariaki Shiraiishi, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University 2. *Kiwako Okada*, Nagoya School of Nutritional Sciences, Nagoya University of Arts and Sciences, 3. *Tajji Noguchi*, Department of Rehabilitation, Faculty of Health Science, Nihon Fukushi University 4. *Takahiro Hayashi*, Faculty of rehabilitation and care, Seijoh University 5. *Yusuke Suzuki*, Department of Comprehensive Community Care Systems, Nagoya University Graduate School of Medicine (Japan)

P 69 • Sarcopenia and Related Factors in Hospitalized Patients

O Yilmaz, Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division Istanbul University Istanbul Medical Faculty Istanbul, (Turkey)

P 70 • Comparing SARC-F with SARC-CalF to screen sarcopenia in community living older adults

G Division, Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division *Meryem Merve Oren* (1) 3. *Ozlem Yilmaz* (1) 4. *Cihan Kiliç* (1) 5. *Kubra Aydin* (2) 6. *Mehmet Akif Karan* (1) 1 Istanbul University Istanbul Medical Faculty 2 Ataturk University Istanbul Medical Faculty Istanbul, (Turkey)

P 71 • Performance of SARC-F in Regard to Sarcopenia Definitions, Muscle Mass and Functional Measures

Gulistan Bahat (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division), *Ozlem Yilmaz* (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division), *Cihan Kiliç* (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division), *Meryem Merve Oren* (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division), *Mehmet Akif Karan* (Istanbul University Istanbul Medical Faculty Internal Medicine Department Geriatrics Division) Istanbul, (Turkey)

P 72 • Nutritional status, sarcopenia and frailty in nursing-home residents - Prevalence and relationships

G Faxén-Irving Department of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden 1,2,3 *Helena Grönstedt*, Phys ther, PhD4,5, *Erika Franzén*, Phys ther, PhD1,3,6, *Åke Seiger* MD, PhD1,7, *Sofia Wikström*, Occup ther, PhD1,6, *Anders Wilmo*, MD, PhD1,7, *Anne-Marie Bostrom* RN, PhD1,3,8, *Tommy Cederholm*, MD, PhD8 (1) Department of Neurobiology, Care science and Society, Karolinska Institutet, Stockholm, Sweden, (2) Division of clinical geriatrics, (3) Stockholms Sjukhem R&D unit, Stockholm, Sweden, (4) Karolinska University Hospital, Stockholm, Sweden (5) Division of physiotherapy, (6) Division of Occupational Therapy, (7) Division of neurogeriatrics, (8) Division of nursing, Department of Public Health and Caring Sciences, Division of Clinical Nutrition and Metabolism and Division of Geriatrics, Uppsala University, Uppsala, (Sweden)

ANIMAL MODELS

P 73 • MBNL1-associated mitochondrial dysfunction and apoptosis in C2C12 myotubes and mouse skeletal muscle

Shingo Yokoyama, PhD1, *Yoshitaka Ohno*, PhD1, *Tatsuro Egawa*, PhD2,3, *Ayane Nakamura*, MS2, *Katsumasa Goto*, PhD2 (1) Laboratory of Physiology, School of Health Science, Toyohashi SOZO University, Toyohashi, Japan (2) Department of Physiology, Graduate School of Health Science, Toyohashi SOZO University, Toyohashi, Japan (3) Laboratory of Sports and Exercise Medicine, Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, (Japan)

P 74 • Long-chain fatty acids and inflammatory markers co-accumulate in skeletal muscle of sarcopenic old rats

M Nourbakhsh, *Thea Laurentius*, *L. Cornelius Bollheimer* Uniklinik RWTH Aachen Pauwelsstr. 30 (Germany)

NUTRITION AND AGING

P 75 • The influence of midlife weight change on cognitive impairment in old age: The Singapore Chinese Health Study

Woon-Puay Koh, *Mohammad Talaei* Health Services and Systems Research, Duke-NUS Medical School, (Singapore)

P 76 • Vitamin D in relation to incident sarcopenia and changes in muscle parameters among older adults: the KORA-Age study

Romy Conzade (1), *Eva Grill* (2), *Heike A. Bischoff-Ferrari* (3), *Uta Ferrari* (4), *Alexander Horsch* (5), *Wolfgang Koening* (6,7,8), *Annette Peters* (1) and *Barbara Thorand* (1) (1) Helmholtz Zentrum München, German Research Center for Environmental Health (GmbH), Institute of Epidemiology, Neuherberg; (2) Institute for Medical Information Processing, Biometrics and Epidemiology, Ludwig Maximilian University of Munich, Munich; (3) Centre on Aging and Mobility, University of Zurich and City Hospital Waid, Zurich; (4) Department of Medicine IV, University Hospital, Ludwig Maximilian University of Munich, Munich; (5) Department of Computer Science, UIT - The Arctic University of Norway, Tromsø; (6) Heart Centre Munich, Technical University of Munich, Munich; (7) DZHK (German Centre for Cardiovascular Research), Partner Site Munich Heart Alliance, Munich; (8) Ulm Medical Center, Department of Internal Medicine II—Cardiology, University Hospital Ulm, Ulm (Germany)

P 77 • Association of nutrients intake and sarcopenia in Brazilian older adults

L. Corona College of Applied Sciences - University of Campinas - *Grazielle M. Silva*: College of Applied Sciences-University of Campinas *Larissa M. Hara*: College of Applied Sciences-University of Campinas *Carolina N. Freiria*: College of Medical Sciences-- University of Campinas (Brazil)

P 78 • The Role of Biological Sex on Nutritional Habits and Muscular Health among Middle-Aged, Healthy Adults

Kara Trautman MS, CSCS1, *Christopher Kotarsky* MS, CSCS1, *Nathan Dicks* MS, CSCS, *TSAC-F1*, *Bailee Sawyer* MS, RD1, *Steven Mitchell* MD1, 2, *Sherri Stastny* PhD, RD, CSSD, *LRD1*, and *Kyle Hackney*, PHD, CSCS1, (1) Department of Health, Nutrition, and Exercise Sciences, North Dakota State University, Fargo, ND, (USA) (2) Sanford Health, Fargo, ND, USA

P 79 • The role of nutrition in the development of chronic diseases amongst elderly people

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

P 80 • Nutritional Therapy, multiprofessional team and nutritional needs

Mota I. P.; *Amante P.*; *Borba L.*; *Santos M. J.*; *Kovacs C.*; *Feres F.* *Magnoni C.D.* Sao Paulo (Brazil)

P 81 • Alcohol and elderly sarcopenia, an underestimated problem

Alessia Mediolli, Waifro Colosio*, Annalisa Arcangeli*, Luigina Scaglia* *Fondazione Richiedi: geriatric acute care unit, alcohol rehab centre Fondazione Richiedi/ reparto geriatria per acuti borgo regale Italy Parma (Italy)*

P 82 • How effective is espen criteria for nutrition screening

Ozlem Yilmaz /Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Gulistan Bahat/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Banu Ozulu Turkmen/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Cihan K?/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics Mehmet Akif Karan/Istanbul University Istanbul Medical School Department of Internal Medicine Division of Geriatrics (Turkey)

P 83 • A study of physical characteristics and nutrition intake status of the prefrail elderly - the Nagoya Longitudinal Study for Healthy Elderly

Chiharu Uno RD1, kiwako Okada RD, PhD1, Eiji Matsushita RD, PhD2, Sachio Shitasue RD, MS2, Hiroshi Shimokata MD, PhD1, Shosuke Satake MD, PhD3,4, Masafumi Kuzuya MD, PhD5,6 (1) Graduate School of Nutritional Sciences, Nagoya University of Arts and Sciences, Nisshin, Aichi, Japan (2) School of Nutritional Sciences, Nagoya University of Arts and Sciences, Nisshin, Aichi, Japan (3) Section of Frailty Prevention, Department of Frailty Research, Center for Gerontology and Social Science (CGSS), National Centre for Geriatrics and Gerontology (NCGG), Obu, Aichi, Japan (4) Department of Geriatric Medicine, Hospital, NCGG, Obu, Aichi, Japan (5) Department of Community Healthcare & Geriatrics, Nagoya University Graduate School of Medicine, Nagoya, Aichi, Japan (6) Institutes of Innovation for Future Society, Nagoya University, Nagoya, Aichi, (Japan)

P 84 • Dietary intake of various food groups and nutrients associated with frailty

Tattari Shalini M.Sc1, Boiroju Naveen Kumar PhD2, Gangupanthulu Madhavi M.Sc3, Geereddy Bhanuprakash Reddy PhD1 (1) Department of Biochemistry, National Institute of Nutrition (ICMR), Hyderabad- 500007, Telangana, India. (2) Department of Statistics, National Institute of Nutrition (ICMR), Hyderabad- 500007, Telangana, India. (3) Department of Community Studies, National Institute of Nutrition (ICMR), Hyderabad- 500007, Telangana, (India)

P 85 • Food intake, nutritional status, ability to function and life quality in older adults: findings in the Power Meals trial

Marika Laaksonen, PhD1 (presenting author), Susanna Kunvik, MSc2, Petra Rautakallio-Jarvinen, MSc2, Terttu Nordman, MD2, Jussi Lopenon, PhD1, Marianne Nordblom, MSc3, Harri Sievanen, PhD4, Merja Suominen, PhD5 (1) Oy Karl Fazer Ab Research Team, Finland (2) Pori Health and Social Services, Finland (3) Fazer Food Services Oy, Finland (4) UKK Institute, Finland (5) Society for Gerontological Nutrition in (Finland)

P 86 • 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 87 • Sarcopenic obesity and functional limitations in older Chileans

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

NUTRITION INTERVENTION

P 88 • Impact of nutrition guidelines on the dietary behaviour of the elderly in Ondo West of Nigerai

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

P 89 • Vitamin D supplementation and glucose homeostasis

Cynthia El Hajj, MSc, Jean-Michel Chardigny, Ph.D, Yves Boirie, Ph.D, Kaisar Yammine, MD, MPH, Ph.D, Mariana Helou, MD, Stéphane Walrand, Ph.D a Département de Diététique et de Nutrition, Hôpital Saint-Charles, Beirut, Lebanon bINRA, UMR 1019, UNH, CRNH Auvergne, Clermont-Ferrand, France cClermont Université, Université d'Auvergne, Unité de Nutrition Humaine, France cCHU Clermont-Ferrand, Service de Nutrition Clinique, 63003 Clermont-Ferrand, France d Department of Orthopedic Surgery, Lebanese American University-Rizk Hospital, Beirut, Lebanon - Center for Evidence-based Anatomy, Sports & Orthopedic Research, Jdeideh, Lebanon. e Department of Medicine, School of Medicine, Lebanese American University, Beirut, (Lebanon)

P 90 • 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 Gropper (1), Maude Exantus (1), Kelley Jackson (1), Seana Reid (1), Shane Spiers (2), Melody Romano (3), Deborah D'Avolio (1), Andra Opalinski (1), Ruth Tappen (1), & Edgar Ramos Vieira (4) (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 91 • 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, PhD (2), Sandra ML Ribeiro, PhD (1,2). 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 92 • 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 93 • Associations between frailty and oral health: findings from the Concord Health and Ageing in Men Project (CHAMP)

Eduardo Valdez1, F.A. Clive Wright1, Vasi Naganathan1,2, Kate Milledge1,3, Fiona M Blyth1,4, Vasant Hirani5, David G. Le Couteur1,2, David J. Handelsman6, Louise M. Waite1,2, Robert G. Cumming1,3,1 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 94 • 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 95 • 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 1School of Nursing, Peking University, Beijing, China 2School of Nursing, Shandong University, Jinan, (China)

P 96 • 30-Day Readmission Diagnoses in Older Adults Previously Admitted for a Diagnosis of Sepsis

Alison Kohn, MS21, Angelina Avdella MS21, 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 97 • Associations of 30 Day Readmissions Following Hip Fractures in Patients 75 and Older

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

P 98 • Co-existence of Physical Frailty and Sarcopenia is Associated with Poorer Functional Fitness and Adverse Health Outcomes in Community-Dwelling Older Adults

Tay Laura MRCP1, Tay Ee Ling MSc2, Latib Aisyah BSc3, Mah Shi Min MSc2, Abu Bakar Huda BSc1, Ng Yee Sien FRCP4 1. Department of Geriatric Medicine, Sengkang General Medicine. Singapore 2. Department of Physiotherapy, Sengkang General Hospital. Singapore 3. Office of Regional Health System. SingHealth. Singapore 4. Department of Rehabilitation Medicine, Singapore General Hospital. Singapore

P 99 • 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 100 • Community nursing care approaches based on activities of community-dwelling senior couples living independently at home

Pingping Zhang Saitama Prefectural University, (Japan)

P 101 • Frailty was predictive of death after discharge from the emergency service: a 6-month prospective study from a middle-income country

Gabriella Vano Arico de Almeida (1), Carla Fernanda de Vasconcellos 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 Jundiã 2- "Fondazione (IRCCS) Ca' Granda - Ospedale Maggiore Policlinico", University of Milan (Italy)

P 102 • 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 Jundiã (2) "Fondazione (IRCCS) Ca' Granda - Ospedale Maggiore Policlinico", University of Milan (Italy)

P 103 • 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 104 • Relationship between Immune Cell Profiles and Frailty in Patients with Breast Cancer receiving Chemotherapy

Nikesh Gilmore, PhD1, Mostafa Mohamed, MBCh, 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 105 • Detecting the features of frailty criteria by comparing with comprehensive geriatric assessment via linking to the International Classification of Functioning, Disability and Health (ICF)

Naoki Tomita MD, PhD1, Yuki Ohashi PhD, RN2, Aiko Ishiki MD, PhD1, Akiko Ozaki PhD, RN3, Mitsuyuki Nakao PhD4, Hiroyuki Arai MD, PhD1 1. Department of Geriatrics and Gerontology, Institute of Development, Aging and Cancer, Tohoku University 2. Rakuwakai Rehabilitation Hospital 3. Department of Gerontological and Home Healthcare Nursing, Division of Health Sciences, Graduate School of Medicine, Tohoku University 4. Laboratory of Biomodeling, Department of Applied Information Sciences, Graduate School of Information Sciences, Tohoku University (Japan)

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

*Farias-Moreno Katia Camrina*1, Carrasco-Peña Karla Berenice2, Trujillo-Hernández Benjamin3, Aguilar-Mancilla Zahira Cecilia4, Pulido-García Alejandra4, Santillán-Luna Deyadira4, Rodríguez-Pedraza Karina4, Trujillo-Magallón Mariana4, Ramírez-Covarrubias Lizeth Estefanía5, Cervantes-Santa Cruz Perla Guillermina5 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 • Appropriateness of new-oral anticoagulant dose adjustment in older adults

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

P 106 • Detecting the features of frailty criteria by comparing with comprehensive geriatric assessment via linking to the International Classification of Functioning, Disability and Health (ICF)

Naoki Tomita MD, PhD1, Yuki Ohashi PhD, RN2, Aiko Ishiki MD, PhD1, Akiko Ozaki PhD, RN3, Mitsuyuki Nakao PhD4, Hiroyuki Arai MD, PhD1 Tohoku university hospital 4-1 Seiryomachi, Aoba-ku, Japan Sendai city Miyagi (Japan)

P 107 • 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 108 • 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 109 • 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 110 • Diabetes in frail older adults: assessment of glycaemic control and prescriptions

*Anne-Sophie Mangé*1, Cécile Mccambridge1, Arnaud Pages1, 2, Charlotte Laborde1, 2, Sandrine Sourdret1, 2, Anne Ghisolfi1, Bruno Vellas1, 2, Philippe Cestac1, 2 ((1) Centre Hospitalier Universitaire de Toulouse, Toulouse, France ; (2) Inserm UMR1027, Université de Toulouse III Paul Sabatier, Toulouse, (France)

P 111 • Prevalence of frailty in older adults with Rheumatoid Arthritis

K Bloomfield University of Auckland Level 1, Building 5, North Shore Hospital, Shakespeare Road, Takapuna New Zealand Auckland K Colvine (Waitemata District Health Board), K Bloomfield (University of Auckland, Waitemata District Health Board), T Xian Zhang (Otago University) (New Zealand)

P 112 • Relationship between predictive risk factors for oropharyngeal dysphagia and dysphagia in cardiovascular disease

Tatiana Magalhães de Almeida Deborá 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 113 • Screening for sarcopenia: evaluating the performance of different case-finding strategies using SARC-F in combination with muscle strength and performance measures

Justin Chew, MBBS, MRCP(UK), Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore. Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore. Junpei Lim, MBBS, MRCP(UK), Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore. Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore. Laura Tay, MBBS, MRCP(UK), Department of General Medicine (Geriatric Medicine), Sengkang General Hospital, Singapore Noor Hafizah Bte Ismail, MBBS, MRCP(UK), FAMS, Department of Continuing and Community Care, Tan Tock Seng Hospital, Singapore Yew Yoong Ding, MBBS, DGM (Glas), FAMS, FRCP (Edin), Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore. Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, Singapore. Wee Shiong Lim, MBBS, MRCP (UK), MMEd (Int. Med), MHPEd, AGSE, FAMS, Department of Geriatric Medicine, Tan Tock Seng Hospital, Singapore. Institute of Geriatrics and Active Ageing, Tan Tock Seng Hospital, (Singapore)

P 114 • Frailty and its risk factors in Dutch adults who have had childhood cancer

*Emma J. Verwaaijen*1, Daniëlle M. Corbijn1, Annelienke M. van Hulst1, Marry M. van den Heuvel-Eibrink1, Annelies Hartman2, Saskia M.F. Pluijms1 (1) Princess Maxima Center for Pediatric Oncology, Utrecht, (2) Department of Pediatric Physiotherapy, Erasmus MC-Sophia Children's Hospital, Rotterdam, (The Netherlands)

P 115 • Impact of frailty on post-operative outcome of major orthopedic surgery in older Indian

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

P 116 • 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 117 • 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 118 • 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 119 • Frailty criteria are associated with circadian rest-activity rhythm disturbances in institutionalized older adults

Patricia Vidal de Negreiros Nobrega (1), *Rafaella Silva dos Santos* (2), *Alvaro Campos Cavalcanti Maciel* (2), *John Fontonele-Araujo* (1), & *Edgar Ramos Vieira* (3) (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)

FRAILITY IN CLINICAL PRACTICE AND PUBLIC HEALTH

P 120 • The potential to prevent, identify and treat frailty and its consequences in community-dwelling older adults using a digital platform and existing smartphone capabilities

Edgar Ramos Vieira (1), Norberto Menendez (2), Benjamin C. Amick III (3) 1. Department of Physical Therapy, Florida International University, Miami, FL, USA 2. LifeWallet, Miami, FL, USA 3. Department of Health Policy and Management, Florida International University, Miami, FL, (USA)

P 121 • Does Inadequate Health Literacy Predict Frailty in Male Older Veterans?

Pravallika Bharatula^{1,2}, Aakashi Shah^{1,2}, Dhanya Baskaran^{1,2}, Kimberly Cabrera², Michael J. Mintzer^{2,3,4}, 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 122 • Does Inadequate Health Numeracy Predict Frailty in Male Older Veterans?

Aakashi Shah^{1,2}, Pravallika Bharatula^{1,2}, Dhanya Baskaran^{1,2}, Kimberly Cabrera², 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 123 • Does Graph Literacy Predict Frailty in Male Older Veterans?

Dhanya Baskaran¹, Aakashi Shah^{1,2}, Pravallika Bharatula^{1,2}, Kimberly Cabrera¹, and Jorge G. Ruiz^{1,3} 1Miami VAHS GRECC Veterans Successful Aging for Frail Elders (VSAFE) 2Department of Public Health Sciences, University of Miami Miller School of Medicine 3Department of Medicine, University of Miami Miller School of Medicine (USA)

P 124 • Does Explicit Ageism Predict Frailty in Older Veterans?

Juliana Ferri-Guerra^{1,2}, Mohammed Nadeem^{1,2}, Douglas Salguero^{1,2}, Raquel Aparicio^{1,2}, Zubair Rahman², 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 125 • Accelerated Aging in Older Persons with HIV Infection

Julia Danz, DO1, Mary Goodyear, MS41, Victor Tran, M.S.1, Amarilis Acevedo, PhD1, Raymond Ownby, MD, PhD1 (1) Department of Psychiatry and Behavioral Medicine, Nova Southeastern University, Fort Lauderdale, FL, (USA)

P 126 • Potentially inappropriate medication in people over 75 years in neurosurgery departments: dream and reality...

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

P 127 • 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 Rahman², 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 128 • Tobacco use and its association with frailty

Mario Ulises Pérez-Zepeda MD, PhD(c)1-2-3-4, Daniela Patino-Hernandez MD1-2-5*, 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, Bogotá, Colombia (6)Centre for Age-Related Diseases, Stavanger University Hospital, Stavanger, (Norway)

P 129 • 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, PhD3, Renuka Visvanathan, PhD4, Kenneth Rockwood, MD1 (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 • 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 (1,5), 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 130 • Seniors' Community Hub (SCH)- A model of care to support primary care providers in caring for older adults with frailty

Marjan Abbasi^{1,2}, Sheny Khera^{1,2,3}, Julia Dabravolskaj¹ 1. Department of Family Medicine, University of Alberta, Edmonton, AB, Canada. 2. Covenant Health, Misericordia Hospital, Edmonton, AB, Canada. 3. Edmonton Oliver PCN, Edmonton, AB, (Canada)

P 131 • Frailty profile of patients referred to a secondary care Frailty Clinic by Family Medicine Physicians

Karina Pfrimer PhD1, Márcio Eloi Colombo Filho1, Paulo Fernandes Fomighieri 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 PhD1. (1) Department of Medicine, Ribeirao Preto Medical School (Brazil)

P 132 • 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* PhD1(1) The Center of Gerontology and Geriatrics, West China Hospital, Sichuan University (China)

P 133 • 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 Zylberglait Lisigurski, MD, Aventura Hospital and Medical Center (USA)

P 134 • 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 Marr^{1,2}, Ahmed Negm², Patricia Hewston², Kenneth Rockwood³ (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 135 • 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 136 • 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 137 • 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, Colombia 2. Hospital Cardiovascular del Niño de Cundinamarca, Soacha, Colombia. 3. Clínica del Country, Bogotá, Colombia 4. Centre for Age-Related Medicine (SESAM), Stavanger University Hospital, Stavanger, Norway. 5. Geriatric Epidemiology Research Department, Instituto Nacional De Geriatria, México City, (México)

P 138 • Frailty in older adults with mild dementia with lewy bodies and alzheimer's disease

Miguel Germán Borda^{1,2}, Hogne Sønnesyn¹, Claire J. Steves³, Audun Osland Vik?Mo^{1,4}, Mario Ulises Pérez-Zepeda^{2,5}, Dag Aarsland^{1,6} Centre for Age-Related Medicine (SESAM), Stavanger University Hospital, Stavanger, (Norway)

P 139 • Role of comprehensive geriatric assessment in predicting post-operative delirium in major orthopaedic surgery in Indian elderly

Karishma De , MBBS1, Dr. Sumitabh Singh, MD1, Dr. Prasun Chatterjee, MD1, Dr Aparajit Ballav Dey , MD1 (1) Geriatric medicine department, All India Institute of Medical Science, New Delhi (India)

OSTEOPOROSIS & SARCOPENIA

P 140 • 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 141 • 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 142 • Relationship between the Changes over Time of Bone and Muscle Health in Children and Adults: A Systematic Review and Meta-Analysis

Locquet Médéa¹, Beaudart Charlotte¹, Durieux Nancy², Reginster Jean-Yves^{1,3}, Bruyère Olivier^{1,4} 1 World Health Organization Collaborating Center for Public Health Aspects of Musculoskeletal Health and Aging, Department of Public Health, Epidemiology and Health Economics, University of Liège, Liège, Belgium 2 ULiège Library, University of Liège, Liège, Belgium 3 Biochemistry Department, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia 4 Department of Sports and Rehabilitation Sciences, University of Liège, Liège, (Belgium)

P 143 • Influence of the new EWGOSP2 consensus on research with presarcopenic and sarcopenic elderly

Jolan Dupont, MD1, Lenore Dedeyne, MSc1, Katrien Koppo, PhD2, Sabine Verschuere, PhD3, Jos Tournoy, MD, PhD1,4, Evelien Gielen, MD, PhD1,4 (1) 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 144 • 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 Kajii, PT, MS1, Jun Kitagawa, PhD2, Yuki Hoshino, PT3, Takahiro Tachiki, PT, MS4, Naonobu Takahira, MD, PhD2, Masayuki Iki, MD, PhD4, 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, Jiu-ai University, Fukui, (Japan)

P 145 • Prevalence of prodromal sarcopenia, sarcopenic-obesity, osteopenia and osteosarcopenia in early middle-age

D Waters, PhD University of Otago Dept of Medicine and School of Physiotherapy New Zealand Dunedin Kim Meredith-Jones, PhD University of Otago Department of Medicine, Dunedin, New Zealand Lara Vlietstra, MS University of Otago Department of Medicine, Dunedin, (New Zealand)

P 146 • Influence of the new EWGOSP2 consensus on research with presarcopenic and sarcopenic elderly

Jolan Dupont, MD1; Lenore Dedeyne, MSc1; Katrien Koppo, PhD2; Sabine Verschuere, PhD3; Jos Tournoy, MD, PhD1,4; Evelien Gielen, MD, PhD1,4 1. 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 147 • Skeletal Muscle Index and Bone Variables in Young Adult Men

Anthony Khawaja MA1,2, Jacques Prioux PhD2, 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 2, Rennes, France. (3) Bellevue University Medical Center, Faculty of Medicine, Saint Joseph University, Mansourieh, (Lebanon)

P 148 • Predicting the risk of low Bone Mineral Density at diagnosis and completion of treatment of childhood Acute Lymphoblastic Leukemia

*Emma J. Verwaaijen*1, Annelies Hartman2, Mariël L. te Winkel2, Inge M. van der Sluis1, Robert de Jonge3, Hester A. de Groot-Kruseman1,4, Maarten H. Lequin5, Mary M. van den Heuvel-Eibrink1, Saskia M.F. Pluijm1 (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 149 • The prognostic effect of sarcopenia in patients treated with gemcitabine based chemotherapy for metastatic/unresectable pancreatic adenocarcinoma

K Shin Seoul St. Mary's hospital, The Catholic University of Korea 222 Banpo-daero, Seocho-gu, South Korea Seoul In Ho Kim, Myung Ah Lee División of Medical Oncology, Seoul St. Mary's Hospital, The Catholic University of Korea (South Korea)

P 150 • Association of Sarcopenia and mid arm circumference in older adults

Gevesh Chand Dewangann 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 151 • Applying the EWGOSP2: Effect of muscle strength definitions on sarcopenia prevalence and predictive validity

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

P 152 • Sleep disorders and their association with incident sarcopenia in community dwelling older Chileans

Myriam Gutiérrez MSCC1, 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 153 • 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)

OSTEOPOROSIS & FRAILTY

P 154 • 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)

PHYSICAL EXERCISE

P 155 • Effects of a short term exercise training protocol on the physical function of institutionalized frail older adults

Cristiane Batisti Ferreira (1), Gleiciane Gontijo Avelar (2), Athila Teles Dantas Maya (1), Paula Americano do Brasil (1), Vinícius Carolino Souza (2), Ricardo Moreno Lima (3), Aparecido Pimentel Ferreira (1), Otávio Toledo Nóbrega (2). 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 156 • 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 and 2 Institute of Gerontology, The University of Tokyo, Tokyo, (Japan)

P 157 • Effects of Dual-Task Functional Power and Mobility Training on Falls and Physical Function in Older People Living in Retirement Communities: A 12-month Cluster Randomized Controlled Trial

Robin M. Daly PhD1, Rachel L. Duckham PhD1, Jamie L. Tait PhD1, Timo Rantalainen PhD1, Caryll A. Nowson PhD1, Dennis R. Taaffe PhD2, Keith D. Hill PhD3, Kerrie M. Sanders PhD4, Lucy Busija PhD5(1) Institute for Physical Activity and Nutrition, Deakin University, Geelong, Victoria, Australia (2) School of Medical and Health Sciences, Edith Cowan University, Perth, WA, Australia (3) School of Physiotherapy and Exercise Science, Curtin University, Perth, WA, Australia (4) Department of Medicine, The University of Melbourne, Western Health, Melbourne, Australia (5) Monash University, Melbourne, (Australia)

P 158 • Effects of a center and a home + center-based exercise program in pre-frail older women

Sabrine Nayara Costa (1), *Edgar Ramos Vieira* (2), Ryelen Nicole Santos de Abreu Garcia (1), Paulo Cesar Barauce Bento (1) 1 - Graduate Program in Physical Education, Federal University of Parana, Curitiba, PR, Brazil. 2 - Department of Physical Therapy, Florida International University, Miami, FL, (USA)

P 159 • Effects of a conventional and a virtual-reality based exercise program in older adults: preliminary results

Larissa Bastos Tavares (1), *Idaliana Fagundes de Souza* (1), *Candice Simões Pimenta de Medeiros* (1), *Kim Mansur Yano* (1), *Fabírcia Azevêdo da Costa Cavalcanti* (1), & *Edgar Ramos Vieira* (2) 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 160 • A new algorithm to monitor physical activity and compliance to a home-based exercise program in (pre)sarcopenic elderly

*Lenore Dedeyne*1; *Jorgen Wullemans*2; *Jolan Dupont*1; *Jos Tournoy*1,3; *Evelien Gielen*1,3; *Sabine Verschuere*2 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 161 • 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

Marcela Echavarría Calderón, MD* Luis Alberto Piragauta Ardila, MD*** **Resident of 3th year Medicine of Physical Activity and Sports, Fundación Universitaria de Ciencias de la Salud, Hospital de San José Bogotá. ***Medicine of Physical Activity and Sports. Assistant Instructor - Department of Physical Activity and Sports Medicine. Fundación Universitaria de Ciencias de la Salud, Hospital de San José, Bogotá (Colombia)

P 162 • Feasibility study of Electronic Lifestyle Activity Tracker (ELAT)-based intervention for managing general fatigue in community-dwelling frail older people

Justina Yat Wa, LLU, School of Nursing, The Hong Kong Polytechnic University, Kowloon, Hong Kong. *Rick Yiu Cho KWNA*, School of Nursing, The Hong Kong Polytechnic University, Kowloon, Hong Kong. *Keith D HILL*, School of Physiotherapy, Faculty of Health Sciences, Curtin University, Perth, WA, Australia. *Paul Lee*, School of Nursing, The Hong Kong Polytechnic University, Kowloon, Hong Kong. *Xue BAI*, Department of Applied Social Sciences, The Hong Kong Polytechnic University, Hong Kong *Judy SIU*, Department of Applied Social Sciences, The Hong Kong Polytechnic University, (Hong Kong)

P 163 • How is the physical performance according to frailty groups in older Veterans?

Raquel Aparicio-Ugarriza, PhD1, 2, *Marianne Turner*, MD2, *Michael J. Mintzer*, MD2,3, *Hermes Florez*, MD, PhD1, 2, *Jorge G. Ruiz*, MD2, 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)