

PRELIMINARY PROGRAM

# ICFSR 2015

International Conference on  
Frailty & Sarcopenia Research

THE CONFERENCE WILL BE HELD AT HOTEL REVERE • 200 STUART STREET, BOSTON, MA, USA

Thursday - Saturday, April 23-25, 2015 Boston, MA, USA

**Tufts**  
UNIVERSITY

All abstracts and proceedings will be published in the Journal of Frailty & Aging

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- 8:30/9:00am **Welcome by the Organizing Committee**  
*Roger Fielding, Shalender Bhasin, Irwin Rosenberg (Boston, USA), Matteo Cesari, Bruno Vellas (Toulouse, France)*
- 9:00/9:30am **KEYNOTE: DRUG TRIAL DESIGN FOR SARCOPENIA**  
*Shalender BHASIN (Boston, USA)*
- 9:30/11:00am **ORAL COMMUNICATIONS:**  
*Chaired by Roger Fielding (Boston, USA), Bruno Vellas (Toulouse, France)*
- 9:30am **OC1 • Frailty in the context of older people centred and integrated care**  
*I. Araujo, Senior Advisor, Department of Ageing and Life Course (World Health Organization)*
- 9:45am **OC2 • EMA (European Medicines Agency ) Points to consider on frailty**  
*Francesca Cerreta (London - UK)*
- 10:00am **OC3 • A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multicenter Study Of The Safety And Bioeffect Of REGN1033 With And Without Exercise In Healthy Subjects (NCT01910220)**  
*Roger A. Fielding, PhD1 (1) Nutrition, Exercise Physiology and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA - Co-authors & affiliations: Shalender Bhasin, MD2, Shehzad Basaria, MD2, Thomas Storer, PhD2, Brian C. Clark, PhD3, Timothy Law, MD3, Marco Pahor, MD4, Todd M Manini, PhD4, Ellen Binder, MD5, Christine Liu, MD6, Michael J. Koren, MD7; Evelyn Gasparino8; Paul J. Tiseo, PhD, Haobo Ren, PhD8, Richard Kao, DrPH8, Poulabi Banerjee, PhD8, Pavel Kovalenko, PhD8, Scott Mellis MD8, PhD, Robert Pordy, MD8, Stephen Donahue MD8, Xiaobing Qian, MD, PhD8 (2)Section on Men's Health, Aging & Metabolism, Brigham and Women's Hospital, Boston, MA; (3)Ohio Musculoskeletal & Neurological Institute (OMNI), Ohio University, Athens, OH; (4)Department of aging and Geriatric Research, University of Florida, Gainesville, FL; (5)Washington University School of Medicine, Division of Geriatrics and Nutritional Science, St. Louis, MO; (6)Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Tufts University, Boston, MA; (7)Jacksonville Center for Clinical Research site, Encore Research Group, Jacksonville, FL 32216; (8) Regeneron pharmaceuticals, Inc., Tarrytown, NY*
- 10:15am **OC4 • Phase 2 Randomized Study of Myostatin Antibody LY2495655 Versus Placebo in Older Patients Undergoing Elective Total Hip Arthroplasty (eTHA)**  
*L Woodhouse, PhD1, University of Alberta, Canada - L Woodhouse, PhD1, R Gandhi, MD2, S Warden, PhD3, S Poiraudreau, MD4, S L. Myers, MD5, CT. Benson, MD5, L Hu, PharmD5, Q Ahmad, MD5, P Linnemeier, MSN5, E Gomez, MS5, O Benichou, MD6 - (1) University of Alberta, Canada - (2) Toronto Western Hospital/UHN, Ontario, Canada - (3) School of Health and Rehabilitation Sciences, Indiana University, Indianapolis, IN, USA - (4) Service de Rééducation et de Réadaptation de l'Appareil Locomoteur et des Pathologies du Rachis, Paris, France - (5) Eli Lilly and Company, Indianapolis, IN, USA - (6) Eli Lilly and Company, Neuilly, France*
- 10:30am **OC5 • Fish oil derived n-3 polyunsaturated fatty acid therapy increases muscle mass and function in older adults**  
*G I. Smith PhD1, S Jullian MS1, D N. Reeds, MD1, D P. Sinacore, PT, PhD2, SI Klein, MD1, B Mittendorfer, PhD – 1 Center for Human Nutrition, Washington University School of Medicine, St. Louis, USA; (2) Program in Physical Therapy, Washington University School of Medicine, St. Louis, USA.*
- 10:45am **OC6 • A community-based, technology-supported service model for detecting and preventing frailty**  
*Lex van Velsen, PhD, Roessingh Research and Development, Telemedicine cluster, Enschede, the Netherlands Co-authors: Maddalena Illario, MD, PhD, Federico II University Hospital, Naples, Italy - Stephanie Kosterink, MSc, Roessingh Research and Development, Telemedicine cluster, Enschede, the Netherlands - Catharine Crola, Federico II University Hospital, Naples, Italy - Prof. Miriam Vollenbroek, University of Twente, Biomedical Systems and Signals group, Enschede, the Netherlands*
- 11:00/11:30am **COFFEE BREAK AND POSTERS**
- 11:30/12:30am **SYMPOSIUM 2: ESTABLISHING AN ICD-10 CODE FOR DIAGNOSING SARCOPENIC PATIENTS**  
*Cynthia A. Bens, Alliance for Aging Research (Washington, DC, USA)*
- 12:30/1:00pm **KEYNOTE: BIOLOGICAL ASPECTS OF AGING AND FRAILITY**  
*Jeremy Walston (Baltimore, USA)*
- 1:00/2:00pm **LUNCH BREAK AND POSTERS**
- PARALLEL SESSIONS • BALLROOM 1**
- 2:00/2:30pm **KEYNOTE: DEFINITION OF SARCOPENIA**  
*Stephanie Studenski (Baltimore, USA)*
- 2:30/3:30pm **SYMPOSIUM 3: HOW TO IMPLEMENT FRAILITY, FALLS PREVENTION AND SARCOPENIA INTO CLINICAL PRACTICE**  
*Chaired by Shalender Bhasin (Boston, USA) - Bruno Vellas (Toulouse, France)*
- 2:30pm • **How to implement frailty into clinical practice the Gerontopole experience in 2015**  
*Bruno Vellas (Toulouse, France)*
- 2:50pm • **How to implement Sarcopenia into clinical practice: what we know, what we don't know and what we will learn from the SPRINT-T trial**  
*Roberto Bernabei (Rome, Italy)*
- 3:10pm • **How to implement Falls Prevention: what we know and what we will learn from the STRIDE trial**  
*Shalender Bhasin, Harvard Medical School (Boston, USA)*
- 3:30/4:30pm **SYMPOSIUM 4: CURRENT DEVELOPMENTS IN THE TREATMENT OF SARCOPENIA: PHARMACOTHERAPY AND NOVEL TRIAL OUTCOMES**  
*Chaired by Daniel Rooks, PhD, Translational Medicine, Novartis Institutes of BioMedical Research, Cambridge, MA, USA*
- 3:30pm • **New Treatments for Muscle Wasting: An Update on Bimagrumab and other Treatments**  
*Ronenn Roubenoff, MD, MHS, Translational Medicine, Novartis Institutes of BioMedical Research, Basel, Switzerland; Dimitris Papanicolaou, MD, PhD, Novartis Pharmaceuticals, East Hanover, NJ.*
- 3:50pm • **Emerging technologies to measure physical activity and falls in sarcopenia trials**  
*Joerg Goldhahn, MD, Translational Medicine, Novartis Institutes of BioMedical Research, Basel, Switzerland*
- 4:10pm • **Effect of bimagrumab (BYM338) on skeletal muscle mass and physical function in older adults with and without sarcopenia**  
*Daniel Rooks, PhD, Translational Medicine, Novartis Institutes of BioMedical Research, Cambridge, MA, USA*

4:30/5:00pm **COFFEE BREAK AND POSTERS**

5:00/5:30pm **KEYNOTE: FRAILTY INTERVENTION: WHAT WE HAVE LEARNED FROM THE LIFE TRIAL**  
*Marco PAHOR (Gainesville, USA)*

5:30/6:30pm **SYMPOSIUM 4: DIABETES AS A CAUSE OF ACCELERATED FRAILTY AND SARCOPENIA: MECHANISMS AND DIAGNOSIS**  
*Chaired by John Morley (St Louis, USA) - Leocadio Rodriguez Manas (Madrid, Spain)*

5:30pm • **Diabetes accelerates frailty and sarcopenia**

*John Morley (St Louis, USA)*

5:50pm • **Diabetes as a model of pre-disability: preventing further functional decline and optimising neuro-muscular and vascular function**

*Alan Sinclair (Luton, UK)*

6:10pm • **MID-FRAIL, a different approach to the older adults with diabetes**

*Leocadio Rodriguez Manas (Madrid, Spain)*

6:30/7:00pm **ORAL COMMUNICATIONS:**

6:30pm **OC7 • Mobile Accelerometry: A "Swiss Army Knife" for Aging Research**

*Martin Daumer (1,2,3) and Christian Lederer (1) for the actibelt team (1) SLCMSRe.V-TheHumanMotionInstitute, Germany (2) Trium Analysis Online GmbH, Germany (3) TUM Technical University of Munich (Germany)*

6:45pm **OC8 • Frailty more than multimorbidity was predictive of mortality among sarcopenic older persons aged 80 years and older**

*Matteo Tosato, MD, 1 Emanuele Marzetti, MD, PhD1, Riccardo Calvani, PhD, 1 Anna Maria Martone, MD, 1 Giulia Saveria, BsC 1 Roberto Bernabei, MD, 1 Francesco Landi, MD, PhD 1 - 1 Department of Geriatrics, Neurosciences and Orthopedics, Catholic University of the Sacred Heart, Rome (Italy)*

**PARALLEL SESSIONS • BALLROOM 2**

2:00/3:00pm **SYMPOSIUM 5: REDUCING FRAILTY IN OLDER PEOPLE: A MULTIFACTORIAL INTERDISCIPLINARY INTERVENTION INTERVENTION DESCRIPTION, RESULTS OF RANDOMIZED TRIAL AND ECONOMIC ANALYSIS**

*Chaired by I Cameron, MBBS PhD, University of Sydney (Australia)*

• **The Frailty Intervention Trial intervention**

*K Lockwood, BHSc, University of Sydney - I Cameron MBBS PhD, N Fairhall PhD, S Kurrle MBBS PhD, S Lord PhD, C Sherrington PhD, University of Sydney and University of New South Wales (Australia)*

• **Results of the Frailty Intervention Trial**

*S Kurrle, MBBS PhD, University of Sydney - I Cameron MBBS PhD, N Fairhall PhD, K Lockwood BHSc, S Lord PhD, C Sherrington PhD, University of Sydney and University of New South Wales (Australia)*

• **Frailty Intervention Trial - Economic Analyses**

*I Cameron, MBBS PhD, University of Sydney, S Kurrle MBBS PhD, N Fairhall PhD, K Lockwood BHSc, S Lord PhD, C Sherrington PhD, K Howard PhD, A Hayes PhD, University of Sydney and University of New South Wales (Australia)*

3:00/4:30pm **ORAL COMMUNICATIONS**

3:00pm **OC9 • Defining sarcopenia in terms of incident adverse outcomes**

*J Woo MD1, J Leung MS12, J. E. Morley MD3 (1) Department of Medicine and Therapeutics, The Chinese University of Hong Kong, Hong Kong (2) The Jockey Club Centre for Osteoporosis Care and Control, The Chinese University of Hong Kong, Hong Kong (3) Divisions of Geriatric Medicine and Endocrinology, Saint Louis University School of Medicine, St. Louis, Missouri (USA)*

3:15pm **OC10 • The relationship between functional impairment and falls in community-dwelling older women**

*E Freiburger Associated Prof. PhD Institute for Biomedicine of Aging, Friedrich-Alexander-Universität [FAU] Erlangen-Nürnberg/Germany, C Sieber, Prof. MD1; C Bollheimer, Prof. MD1; S Goisser, MA1; W Kemmler, Prof. PhD2; K Engelke, Prof. PhD2; S von Stengel, PhD2, M Teschler MA2 (1) Institute for Biomedicine of Aging FAU Erlangen-Nürnberg/Germany- (2) Institute of Medical Physics, FAU Erlangen-Nürnberg (Germany)*

3:30pm **OC11 • Sarcoplasmic Reticulum Function and Membrane Sphingolipids in Adult and Aged Rodent Skeletal Muscle**

*D W. Russ, PT, Ph.D.1,2,IM. Boyd1, K W. McCorkle1 (1) School of Rehabilitation and Communication Sciences, Ohio University, Athens, OH (2) Ohio Musculoskeletal and Neurological Institute, Heritage College of Osteopathic Medicine, Athens, OH (USA)*

3:45pm **OC12 • Relation between muscle mass, motor units and type of training in master athletes**

*M Drey, MD, MSc1, CC. Sieber MD, PhD2, H Degens PhD3, J McPhee PhD3, M T. Korhonen PhD4, K Müller MD5, B Ganse MD5, J Rittweger MD, PhD5 - 1 Klinikum der Universität München (LMU), Medizinische Klinik und Poliklinik IV, Ziemssenstrasse1, 80336 München, Germany - 2 University of Erlangen-Nürnberg, Institute for Biomedicine of Ageing 90419 Nürnberg, Germany - 3-Manchester Metropolitan University, School of Healthcare Science, Chester Street, Manchester M1 5GD, United Kingdom - 4- University of Jyväskylä, Gerontology Research Center, Department of Health Sciences, P.O. Box 35(viv), 40014 Jyväskylä, Finland - 5- German Aerospace Center (DLR), Institute of Aerospace Medicine, Linder Höhe, 51147 Cologne (Germany)*

4:00pm **OC13 • An innovative study design to evaluate a technology-supported health service to prevent frailty**

*Stephanie Jansen-Kosterink, MSc, Roessingh Research and Development, Telemedicine cluster, Enschede, the Netherlands - Co-authors: Prof. dr. Miriam Vollenbroek, University of Twente, Biomedical Systems and Signals group, Enschede (the Netherlands)*

4:15pm **OC14 • Ghrelin Plus Resistance Training in Frailty: A Randomized, Placebo-Controlled Study**

*Anne R. Cappola MD, ScM, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, USA - Co-authors and Affiliations: Margaret C. Garin, MD, MSCR; Theresa Scattergood, MSN, RN; Domenick Salvatore, Sarah J. Ratcliffe, PhD; Kathryn Schmitz, PhD, MPH; Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA (USA)*

4:30/5:00pm **COFFEE BREAK AND POSTERS**

5:00/6:00pm  
5:00pm

**ORAL COMMUNICATIONS**

**OC15 • Sarcopenia and age-related muscle impairment: histology and imaging in a close relationship**

*E Piccirilli*1MD, *J Baldi*1MD, *M Scimeca*2PhD, *E Gasbarra*1MD, *E Bonanno*2MD, *U Tarantino*1MD - (1)Department of Orthopaedics and Traumatology, University of Rome Tor Vergata, Policlinico Tor Vergata Foundation, Rome (Italy) - (2)Anatomic Pathology Section, Department of Biomedicine and Prevention, University of Rome, Rome (Italy)

5:15pm

**OC16 • Protein Intake and Incident Mobility Limitations in Older Adults: The Health ABC Study**

*Denise K. Houston*, PhD1, *Janet A. Tooze*, PhD1, *Katelyn R. Garcia*, MS1, *Marjolein Visser*, PhD2, *Frances A. Tylavsky*, DrPH3, *Trisha F. Hue*, PhD4, *Jung S. Lee*, PhD5, *Rachel A. Murphy*, PhD6, *Eleanor M. Simonsick*, PhD6, *Tamara B. Harris*, MD6, *Anne B. Newman*, MD7, *Stephen B. Kritchevsky*, PhD1 – (1) Wake Forest School of Medicine, Winston-Salem, NC, USA; (2) VU University, Amsterdam, The Netherlands; (3) University of Tennessee Health Science Center, Memphis, TN, USA; (4) University of California, San Francisco, CA, USA; (5) University of Georgia, Athens, GA, USA; (6) National Institute on Aging, Baltimore and Bethesda, MD, USA; (7) University of Pittsburgh, Pittsburgh, PA (USA)

5:30pm

**OC17 • Effects of long-term training on muscle strength and mobility in ≥75 year old adults**

*Eeva Aartolahti* 1, (1) Department of Health Sciences, University of Jyväskylä, Jyväskylä, Finland - Co-Authors & affiliations: *Eija Lönnroos* 2, *Sirpa Hartikainen* 3,4, *Arja Häkkinen* 1,5, (2) Institute of Public Health and Clinical Nutrition, Department of Geriatrics, University of Eastern Finland, Kuopio, Finland (3) School of Pharmacy, University of Eastern Finland, Kuopio, Finland (4) Kuopio Research Centre of Geriatric Care, University of Eastern Finland, Kuopio, Finland (5) Department of Physical and Rehabilitation Medicine, Central Finland Health Care District, Jyväskylä (Finland)

5:45pm

**OC18 • Effects of sarcopenia on serum myostatin and physical functioning**

*Michelle Gray*, Ph.D., University of Arkansas, Human Performance Lab, Office for Studies on Aging - Co-authors and affiliations: *Ashley Binns*, M.S., University of Arkansas, Human Performance Lab, Office for Studies on Aging - *Jordan M. Glenn*, M.S., University of Arkansas, Human Performance Lab, Office for Studies on Aging (USA)

6:00/7:00pm

**SYMPOSIUM 6: FRAILTY ACROSS ALL AGES**

Chaired by *J A Ávila-Funes* (Mexico City, México)

6:00pm

• **A frailty index that fits across all ages**

*MU Pérez-Zepeda*, (Mexico City, México)

6:20pm

• **Failure to thrive in newborns and maternal health by the frailty index**

*C García-Peña*, MD, PhD2 (Mexico City, México)

6:40pm

• **Associations of socioeconomic determinants with the frailty index in different age groups**

*LM Gutiérrez-Robledo* ( Mexico City, México)

**PARALLEL SESSIONS • BALLROOM 1**

8:00/9:00am **ORAL COMMUNICATIONS**

8:00am **OC20 • Phase 2 Trial of Myostatin Antibody LY2495655 in Older People with Recent Falls and Low Muscle Strength**

**Rolland Y** 1, Becker C2, Lord S3, Studenski S4, Warden S5, Fielding R6, Recknor C7, Hochberg M8, Ferrari S9, Blain H10, Binder E11, Poiradeau S12, Benson , Myers S, Hu L13, Ahmad Q, Pacuch K13, Gomez E13, Benichou O14 1Gérontopôle de Toulouse, Centre Hospitalo-Universitaire de Toulouse, and INSERM 1027, Toulouse, France - 2Robert-Bosch-Krankenhaus, Stuttgart, Germany - 3NeuRA, UNSW, Sydney, New South Wales, Australia - 4University of Pittsburgh, Pittsburgh, PA, USA (at time work was completed) 5School of Health and Rehabilitation Sciences, Indiana University, Indianapolis, IN, USA - 6Tufts University, Boston, MA, USA - 7United Osteoporosis Centers, Gainesville, GA, USA 8University of Maryland School of Medicine, Baltimore, MD, USA - 9Geneva University Hospital, Geneva, Switzerland - 10Montpellier University Hospital, MacVia-LR, Euromov, M2H, Montpellier, France - 11Washington University School of Medicine, St. Louis, MO, USA - 12Université Paris Descartes; INSERM U 1153, France - 13Eli Lilly and Company, Indianapolis, IN, USA 14Eli Lilly and Company, Neully, (France)

8:15am **OC21 • Hypoenergetic diet-induced reductions in myofibrillar protein synthesis are rescued by resistance training and balanced daily protein ingestion in older men**

**Caoileann H Murphy**1, Tyler A Churchward-Venne1, Cameron J Mitchell1, Nathan M Kolar1, Louise M Burke2, John A Hawley3,4, Amira Kassis5, Leonidas G Karagounis5, and Stuart M Phillips1 - 1Department of Kinesiology, McMaster University, Canada - 2 Department of Sports Nutrition, Australian Institute of Sport, Canberra, Australia - 3 Exercise and Nutrition Research Group, School of Exercise Science, Australian Catholic University, Fitzroy, Victoria, Australia - 4 Research Institute for Sport and Exercise Sciences, Liverpool John Moores University, UK - 5 Nestlé Research Center, Nestec Ltd, Lausanne (Switzerland)

8:30am **OC22 • Development of a self-administrated quality of life questionnaire specific to sarcopenia in elderly aged 65 years and older: the SarQoL.**

**C. Beaudart**, J.-Y. Reginster, R. Rizzoli, Y. Rolland, I. Bautmans, E. Biver, J. Petermans, S. Gillain, J. Van Beveren, M. Jacquemain, P. Italiano, N. Dardenne, O. Bruyère.

8:45am **OC23 • Effects of a vitamin D and leucine-enriched whey protein oral nutrition supplement on measures of sarcopenia in older adults - The PROVIDE study: a randomized, double-blind, placebo-controlled trial**

Jürgen M. Bauer, PhD, MD, Geriatric Centre Oldenburg, Oldenburg, Germany; Co-authors and affiliations: Jürgen M. Bauer, PhD, MD1, **Sjors Verlaan**, MSc2, Cornel Sieber, MD3, and Tommy Cederholm, PhD, MD4, for the PROVIDE study group - (1) Geriatric Centre Oldenburg, Oldenburg, Germany; (2) Nutricia Research, Nutricia Advanced Medical Nutrition, Utrecht, The Netherlands; (3) Friedrich-Alexander-University Erlangen-Nürnberg, Nürnberg, Germany; (4) Uppsala University, Uppsala (Sweden)

9:00/10:00am **SYMPOSIUM 7: FRAILTY, FALLS, AND FRACTURES: COMMON PATHOPHYSIOLOGY AND THERAPEUTIC APPROACH**  
Chaired by Prof. Go Duque, MD, PhD, FRACP. (Sydney, Australia)

9:00am **Frailty and musculoskeletal system: From bench to bedside**

**B R. Troen**, MD, Professor and Chief, Division of Geriatrics and Palliative Medicine, University at Buffalo, Buffalo, NY (USA)

9:20am **Sarco-osteoporosis: Does it really exist?**

**B Buehring**, MD, Assistant Professor, Department of Medicine, University of Wisconsin - Madison, Madison, WI (USA)

9:40am **How to develop an integrated approach to prevent falls and fractures in frail older persons?**

**Prof. G Duque**, MD, PhD, FRACP. Director Musculoskeletal Ageing Research Program, Sydney Medical School Nepean, The University of Sydney (Australia)

10:00/10:30am **KEYNOTE: ENDS POINT FOR SARCOPENIA DRUG TRAILS**

**J GURALNIK** (Baltimore, USA)

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

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

11:00am **OC24 • Frailty and the use of acute medical services**

**Despina Constantin**, PhD1, On behalf of Neil D. Dattani, MD from Toronto University, Canada, **MJ Sirois**, PhD, The Canadian Emergency Team Initiative, Université Laval and Centre de recherche du CHU de Québec, Canada -Vanessa Fillion, BSc (1)(2)(3), Jacques Lee, MD(1)(4), Marcel Émond, MD, MSc (1)(2)(3) - (1) The Canadian Emergency Team Initiative (2) Université Laval, Québec, Canada (3) Centre de recherche du CHU de Québec, Canada (4) SunnyBrook Hospital, Toronto (Canada)

11:15am **OC25 • multi-block PLS-DA modeling approach to characterize the age-dependent relations among patterns of circulating inflammatory biomarkers, changes in body composition and physical performance**

**Riccardo Calvani**, PhD,1 Francesco Landi, MD, PhD,1 Davide L. Vetrano, MD,1 Anna Maria Martone, MD,1 Federico Marini, PhD,2 Christiaan Leeuwenburgh, PhD,3 Marco Pahor, MD,3 Roberto Bernabei, MD,1 Emanuele Marzetti, MD, PhD 1 - 1 Department of Geriatrics, Neurosciences and Orthopedics, Catholic University of the Sacred Heart, Rome, Italy - 2 Department of Chemistry, "Sapienza" University of Rome, Rome, Italy - 3 Department of Aging and Geriatrics, University of Florida, Gainesville FL (USA)

11:30am **OC26 • Personalized physiotherapy in frail older adults with mobility problems is (cost)-effective in improving physical activity and frailty: a randomized controlled trial:**

**N de Vries**1, B Staal1, P van der Wees1, R Akkermans1, E Adang2, M Olde Rikkert3, R Nijhuis- van der Sanden2 - (1) Scientific Institute for Quality of Healthcare, Radboud University Medical Center, Nijmegen, The Netherlands (2) Department for Health Evidence, Radboud University - Medical Center, Nijmegen, The Netherlands (3) Department of Geriatrics, Radboud University Nijmegen Medical Center, Nijmegen (The Netherlands)

11:45am **OC27 • Diffusion Tensor MRI of Quadriceps Musculature in the Setting of Clinical Frailty Syndrome**

**DM. Melville**, MD1, J Mohler, MSN, MPH, PhD2, M Fain, MD2, A E. Muchna, MPH2, E Krupinski, PhD1, MS. Taljanovic, MD, PhD1 - 1Department of Medical Imaging, University of Arizona College of Medicine, Tucson, AZ 85724 2- Arizona Center on Aging, University of Arizona College of Medicine (USA)

12:00/12:30am **LATE BREAKING NEWS (2)**

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

**PARALLEL SESSIONS • BALLROOM 2**

8:00/9:00am **ORAL COMMUNICATIONS**

8:00am **OC28 • Derivation of a Frailty Index from the interRAI Acute Care Instrument**  
*Ruth E Hubbard*<sup>1\*</sup>, Nancye M Peel<sup>1</sup>, Mayukh Samanta<sup>2</sup>, Leonard C Gray<sup>1</sup>, Brant Fries<sup>3</sup>, Arnold Mitnitski<sup>4</sup>, Kenneth Rockwood<sup>4</sup> - 1 Centre for Research in Geriatric Medicine, The University of Queensland, Brisbane, Queensland, Australia - 2 QIMR Berghofer Medical Research Institute, Brisbane, Queensland, Australia - 3 School of Public Health, the University of Michigan, USA - 4 Department of Medicine, Dalhousie University, Halifax, Nova Scotia (Canada)

8:15am **OC29 • Sarcopenia coexisting with Alzheimer's disease and amnesic mild cognitive impairment in elderly patients.**  
*Taiki Sugimoto*, BS, Dpartment of community Health Sciences, Kobe University, Graduate School of Health Sciences, Kobe, Japan - Co-Authors & affiliations: Shunsuke Murata, BS<sup>1</sup>, Rei Ono, PhD<sup>1</sup>, Kenji Toba, MD, PhD<sup>2</sup>, Takashi Sakurai, MD, PhD<sup>3</sup> [1] Dpartment of community Health Sciences, Kobe University, Graduate School of Health Sciences, Kobe, Japan-[2] President, National Center for Geriatrics and Gerontology, Obu, Japan- [3] Center for Comprehensive Care and Research on Memory Disorders, National Center for Geriatrics and Gerontology, Obu (Japan)

8:30am **OC30 • Feasibility and Reliability of Psoas Muscle Area As A Novel Measure for Sarcopenia and Frailty in Patients Undergoing Transcatheter Aortic Valve Implantation**  
*Samuel Mamane*, MD<sup>1</sup>, Nicolo Piazza MD<sup>1,2</sup>, Kristoff Nelson BSc<sup>1</sup>, Samuel Ohayon BSc<sup>1</sup>, Giuseppe Martucci MD<sup>1,2</sup>, Antonio Vigano MD<sup>3</sup>, José Morais MD<sup>1,4</sup>, Mark Levental MD<sup>5</sup>, Ruediger Lange MD<sup>6</sup>, **Jonathan Afilalo** MD MSc<sup>1,2,7</sup> - 1. Department of Medicine, McGill University, Montreal, QC, Canada - 2. Division of Cardiology, McGill University, Montreal, QC, Canada - 3. Department of Anesthesia, McGill University, Montreal, QC, Canada - 4. Division of Geriatric Medicine, McGill University, Montreal, QC, Canada - 5. Department of Radiology, McGill University, Montreal, QC, Canada 6. Division of Cardiac Surgery, German Heart Center, Munich, Germany - 7. Department of Epidemiology, McGill University, Montreal, QC (Canada)

8:45am **OC31 • Frailty transitions over 12-month period in relation to cognitive statuts in community-dwelling older adults with cognitive impairment attending a Tertiary Memory Clinic**  
*MEI Sian Chong*, MBBS, FRCP(EDIN)<sup>1,2</sup> – Laura Tay, MBBS, MRCP (UK) <sup>1,2</sup>, Mark Chan MBBS, MRCP (UK) <sup>1,2</sup>, Wee Shiong Lim, MBBS, MMED, MRCP (UK) <sup>1,2</sup>, Ruijing Ye, BSN <sup>2</sup>, Yew Yoong Ding, MBBS, FRCP (UK) <sup>3</sup> – 1/ Cognition and Memory Disorders service. Department of Geriatrics Medecine. Tan Tock Seng Hospital, Singapore. 2/ Institut of Geriatrics and Active Ageing. Tan Tock Seng Hospital, Singapore 3/ department of Geriatric Medecine. Tan Tock Seng Hospital. (Singapore)

9:00/10:00am **SYMPOSIUM 8: FRAILTY IN HIV AND AGING**  
Chaired by Deborah Gustafson, SUNY-Downstate Medical Center, Brooklyn New York USA and Monty Montano, Harvard University, Boston, Massachusetts USA and and Monty Montano, Harvard University, Boston, Massachusetts USA  
Kenneth Rockwood, Halifax Nova Scotia, Joseph Margolick, Johns Hopkins, Amy Justice, Yale, Deborah Gustafson, Monty Montano, Paola Sebastiani, Boston University, Kim Erlandson, University of Colorado, KrisAnn Oursler, Veterans Administration (USA)

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

10:00am **OC32 • The Changes of Lower Muscular Mass, Weakness and Physical Performance in Robust and Pre-frail outpatient Older Adults**  
*Tsai-Chun Chen*, MS<sup>1</sup>, Ching-Yu Chen, PhD<sup>2</sup>, Chih-Cheng Hsu, PhD<sup>2</sup>, 3, Ming-Hsia Hu, PhD<sup>1</sup>, 4 - (1) School and Graduate Institute of Physical Therapy, National Taiwan University College of Medicine, Taipei, Taiwan - (2) Department of Family Medicine, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, Taiwan - (3) Division of Geriatrics and Gerontology, Institute of Population Health Sciences, National Health Research Institutes, Taiwan (4) Department of Physical Medicine and Rehabilitation, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei, (Taiwan)

10:15am **OC33 • Age-related decline in skeletal muscle mass and function among elderly men and women in Shanghai, China - A cross sectional study**  
*Huijing Bai*, MD<sup>1</sup>, **Jianqin Sun** MD<sup>1</sup>, 2, 3\*, Min Chen MD<sup>1</sup>, Danfeng Xu PhD<sup>1</sup>, Hua Xie MD<sup>1</sup>, Yan Wang MD<sup>1</sup>, Zhuowei Yu MD<sup>2,3</sup>, Zhijun Bao MD<sup>2,3</sup>, Jie Chen MD<sup>2,3</sup>, Yiru Pan MD<sup>4</sup>, Dajiang Lu MD<sup>5\*</sup>, Sulin Cheng MD<sup>6</sup> - 1. Clinical Nutrition Center, Fudan University Affiliated Hua Dong Hospital, Shanghai, China. - 2. Shanghai Key Laboratory of Clinical Geriatric Medicine, Shanghai, China. - 3. Research Center on Aging and Medicine, Fudan University, Shanghai, China. - 4. clinical laboratory, Fudan University Affiliated Hua Dong Hospital, Shanghai, China. - 5. School of Kinesiology, Shanghai University of Sport, Shanghai, China. - 6. Department of Sport and Physical Education, Shanghai Jiao Tong University, Shanghai, China of Physical Medicine and Rehabilitation, National Taiwan University Hospital and National Taiwan University College of Medicine, Taipei (Taiwan)

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

11:00/12:30am **ORAL COMMUNICATIONS**

11:00am **OC34 • Muscle mRNA expression signatures in wasted and non-wasted COPD patients at rest and 24 hr after resistance exercise**  
*Despina Constantin*, PhD<sup>1</sup>, Manoj Menon, MD, PhD<sup>2</sup>, Michael C Steiner, MD, PhD<sup>2</sup>, and Paul L Greenhaff, PhD- (1) MRC/ARUK Centre for Musculoskeletal ageing Research, School of Life Sciences, University of Nottingham, Queen's Medical Centre, Nottingham, UK - (2) Department of Respiratory Medicine, Glenfield Hospital, Leicester (UK)

11:15am **OC35 • Trunk Muscle Composition 2 Months After Hip Fracture: The Baltimore Hip Studies**  
*Gregory E. Hicks*, PT, PhD<sup>1</sup>, Michelle Shardell, PhD<sup>2</sup>, Ram R. Miller, MD<sup>3</sup>, Denise Orwig, PhD<sup>4</sup>, Marc Hochberg, MD<sup>4</sup>, Jay Magaziner, PhD<sup>4</sup> - (1) Department of Physical Therapy, University of Delaware, Newark, DE, USA - (2) Longitudinal Studies Section, National Institute on Aging, NIH, Baltimore, MD, USA - (3) Glaxo Smith Kline, Research Triangle Park, NC, USA - (4) Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD (USA)

**PARALLEL SESSIONS • BALLROOM 2**

- 11:30am **OC36 • Prevalence of Low Lean Mass in the USA using the FNIIH Sarcopenia Project Cutpoints: Effect of Age**  
**John A. Batsis** MD1,2,3, Todd A. Mackenzie, PhD,1,2,3, Francisco Lopez-Jimenez, MD, MS6, Stephen J. Bartels, MD, MS1,2,3,5, - 1Geisel School of Medicine at Dartmouth, Hanover, New Hampshire, United States - 2Department of Medicine, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, United States - 3The Dartmouth Institute for Health Policy, Lebanon, New Hampshire, United States -5Department of Community & Family Medicine, Psychiatry, Dartmouth College, Hanover, New Hampshire, United States - 6Division of Cardiovascular Disease, Mayo Clinic, Rochester, Minnesota (USA)
- 11:45am **OC37 • Frailty Phenotype is Associated with Declines in Muscle Mass, Performance, Quality and Integrity, with Suggestion of Compensatory Hypertrophy**  
**George A Kuchel**, MD1 (1) University of Connecticut Health Center, Farmington, CT - Co-authors and affiliations: Maren S Fragala, PhD1,2, Xin Zhou1, Qian Wu, MD1, Greg Polkowski, MD1, Tessa Balach, MD1, Anne M Kenny, MD1, Rong Wu1, James Grady, DrPH (1) University of Connecticut Health Center, Farmington, CT (2) University of Central Florida, Orlando, FL (USA)
- 12:00am **OC38 • Novel Serum Biomarkers that Predict Sarcopenia in Older Malnourished Men**  
**Suzette L Pereira**, , PhD1, Susan H Gawel, PhD2, Menghua Luo, MD, PhD1, Phil Hemken, PhD2, Vikkie Mustad, PhD1, Neile K Edens, PhD1, Gerard J Davis, PhD2 1Abbott Nutrition, Columbus, OH, USA, 2Abbott Diagnostics, Chicago, IL (USA)
- 12:15am **OC39 • Influence of gender and high-fat feeding on the development of sarcopenia in the aging rat**  
**Robert Kob**, PhD1, Claudia Fellner PhD2, Thomas Bertsch MD3, Astrid Wittmann1, Cornel C. Sieber MD1,4, Barbara E. Fischer PhD1, Christian Stroszczyński MD2, L. Cornelius Bollheimer MD1,4 - 1) Institute for Biomedicine of Aging, Friedrich-Alexander-Universität Erlangen-Nürnberg, Nürnberg, Germany - 2) Institute of Radiology, University Hospital Regensburg, Germany - 3) Institute of Clinical Chemistry, Laboratory Medicine and Transfusion Medicine, Paracelsus Medical University, Nuremberg, Germany - 4) Department of General Internal Medicine and Geriatrics, St. John of God Hospital, Regensburg (Germany)

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

**PARALLEL SESSIONS • BALLROOM 1**

- 1:30/2:30pm **SYMPOSIUM 9: PHYSICAL FRAILTY AND SARCOPENIA: BACKGROUND, RATIONALE, AND DESIGN OF THE SPRINT PROJECT**  
Chaired by R Bernabei, MD, PhD - Department of Geriatrics, Orthopedics, and Neurosciences of the Università Cattolica del Sacro Cuore; Rome (Italy)
- 1:30pm **Older people's unmet needs are changing medicine**  
R Bernabei, MD, PhD - Department of Geriatrics, Orthopedics, and Neurosciences of the Università Cattolica del Sacro Cuore; Rome (Italy)
- 1:45pm **The physical frailty and sarcopenia condition**  
M Cesari, MD, PhD - Centre Hospitalier Universitaire de Toulouse; Toulouse, France
- 2:00pm **The SPRINTT trial: rationale and methodology**  
F Landi, MD, PhD - Department of Geriatrics, Orthopedics, and Neurosciences of the Università Cattolica del Sacro Cuore; Rome (Italy)
- 2:15pm **Biomarkers of frailty and sarcopenia**  
E Marzetti, MD, PhD - Department of Geriatrics, Orthopedics, and Neurosciences of the Università Cattolica del Sacro Cuore; Rome (Italy)
- 2:30/3:30pm **ORAL COMMUNICATIONS**
- 2:30pm **OC40 • Genome-wide association analysis of frailty measures in two representative cohorts in the US and the UK**  
**Krisztina Mekli**, PhD1, James Nazroo PhD1, Alan Marshall PhD1, Jinkook Lee PhD2, Drystan Phillips PhD2, Carol Prescott PhD3, Neil Pendleton PhD4 1Frailty Resilience and Inequalities in Later Life project, CMIST, University of Manchester, United Kingdom - 2University of Southern California, Davis School of Gerontology, Los Angeles, United States - 3University of Southern California, Dana and David Dornsife College of Letters, Arts and Science, Los Angeles, United States - 4Clinical & Cognitive Neurosciences, Institute of Brain, Behaviour and Mental Health, Salford Royal NHS Foundation Trust (UK)
- 2:45pm **OC41 • Muscle protein fractional synthesis rates predicts muscle mass gain in response to a oral selective androgen receptor modulator**  
**Mahalakshmi Shankaran**1, Chelsea King1, Po-yin Anne Wong1, Scott Turner1, Marc Hellerstein1, Todd W. Shearer2, Stephen A. Stimpson2, , Ying X. Qian2, Richard V. Clark2, Philip S. Turnbull2, Ram Miller2, David C. Cooper2, Alan Russell2, and William J. Evans2 - 1KineMed, Inc., Emeryville, CA 94608, USA 2Muscle Metabolism Discovery Performance Unit, GlaxoSmithKline, Research Triangle Park, NC 27709 (USA)
- 3:00pm **OC42 • Low intensity resistance training, but not citrulline supplementation, attenuates declines in skeletal muscle mass, strength and 'anabolic resistance' induced by two-weeks of inactivity in older men.**  
**Mark T von Allmen**, BSc1 - (1) Department of Kinesiology, McMaster University, Hamilton, Canada - Co-Authors & Affiliations : Michaela C Devries PhD1, Leigh Breen PhD1,2 and Stuart M Phillips PhD1 (1) Department of Kinesiology, McMaster University, Hamilton, Canada - (2) School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham, Birmingham (UK)
- 3:15pm **OC43 • Increases in circulating IL-15 and cell-free DNA concentrations after treadmill running: Potential systemic mediators for the beneficial effects of endurance exercise.**  
Yoshiaki Tamura, MD, PhD1, 2, Richard Kaszynski, MD, PhD 1, Keiichi Watanabe 3, Tomomi Kantani 4, Junichi Hayashi, MD, PhD5, Hideki Ito, MD, PhD 2, **Masao Kaneki**, MD, PhD1, Nobuhiko Ishida, MD, PhD3 (1) Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Shriners Hospitals for Children, Harvard Medical School, Charlestown, MA, USA. - (1) Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan. (3) Wafukai Medical Corporation Tama Rehabilitation Academy, Ome 198-0004, Japan (4) Wafukai Tama Rehabilitation Hospital, Ome 198-0052, Japan (5) Department of General Medicine, Kyorin University School of School of Medicine, Mitaka 181-8611 (Japan)
- 3:30/4:00pm **COFFEE BREAK AND POSTERS**

**PARALLEL SESSIONS • BALLROOM 1**

- 4:00/5:00pm **SYMPOSIUM 10: INTERSECTION AND DISTINCTION BETWEEN PHYSICAL FRAILTY AND COGNITIVE IMPAIRMENTS AMONG OLDER ADULTS**  
*Chaired by Qian-Li Xue, PhD, Division of Geriatric Medicine and Gerontology, Department of Medicine/ Center on Aging and Health, Johns Hopkins University, Baltimore, Maryland (USA)*
- 4:00pm **U.S. national profile on the intersection between physical frailty and cognitive impairments among older adults residing in the community or residential care settings**  
*Qian-Li Xue, PhD, Division of Geriatric Medicine and Gerontology, Department of Medicine/ Center on Aging and Health, Johns Hopkins University, Baltimore, Maryland, USA - Co-Authors & Affiliations : Karen Bandeen-Roche, PhD1,2, Michelle C. Carlson, PhD1,2, Ravi Varadhan, PhD4, Brian Buta, MS2,4, Jin Huang, MS2,4, Judith D. Kasper, PhD1 (1) Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, USA (2) Center on Aging and Health, Johns Hopkins Medical Institutions, Baltimore, MD, USA - (3) Division of Biostatistics and Bioinformatics, Department of Oncology, Johns Hopkins University (4) Division of Geriatric Medicine and Gerontology, Department of Medicine, Johns Hopkins University, Baltimore, MD (USA)*
- 4:20pm **Frailty and cognition: one syndrome?**  
*Karen Bandeen-Roche, PhD, Johns Hopkins Bloomberg School of Public Health Center on Aging and Health, Baltimore, Maryland, USA Co-Authors & Affiliations : Alden Gross, PhD MHS2, Michelle Carlson, PhD2, Linda P. Fried, MD, MPH3, Judith D. Kasper, PhD2, Qian-Li Xue, PhD2 - (2) Johns Hopkins Bloomberg School of Public Health / Center on Aging and Health, Baltimore, Maryland, USA; (3) Mailman School of Public Health, Columbia University, New York, New York (USA)*
- 4:40pm **Domain-specific cognitive performance and development of physical frailty: Longitudinal evidence from the Women's Health and Aging Study II**  
*Alden L. Gross, PhD MHS, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA and Center on Aging and Health, Johns Hopkins Medical Institutions, Baltimore, MD, USA - Co-Authors & Affiliations : Qian-Li Xue, PhD1,2, Ravi Varadhan, PhD4, Karen Bandeen-Roche, PhD3,2, Linda P. Fried, MD, MPH5, Michelle C. Carlson, PhD3 - (1) Division of Geriatric Medicine and Gerontology, Department of Medicine, Johns Hopkins University, Baltimore, MD, USA - (2) Center on Aging and Health, Johns Hopkins Medical Institutions, Baltimore, MD, USA - (3) Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, USA - (4) Division of Biostatistics and Bioinformatics, Dept. of Oncology, Johns Hopkins University, Baltimore, MD, USA - (5) Mailman School of Public Health, Columbia University, New York, NY (USA)*
- 5:00/6:40pm **SYMPOSIUM 11: MOLECULAR MECHANISMS OF SARCOPENIA**  
*Chaired by P Valet, Inserm U1048 (Toulouse, France), M Cesari, Gérontopôle (Toulouse, France)*
- 5:00pm **Novel mechanisms regulating age-associated muscle atrophy**  
*S Lessard, Joslin Institute, Harvard Medical School (Boston, USA)*
- 5:20pm **Apelin reverses age-induced skeletal muscle dysfunction**  
*C Dray, Toulouse University (Toulouse, France)*
- 5:40pm **Muscle signaling mediating sarcopenia**  
*D Glass, Harvard Medical School (Boston, USA)*
- 6:00pm **A Drosophila model for sarcopenia and myokine signaling**  
*F Demontis, St Jude Faculty (Memphis, USA)*
- 6:20pm **MicroRNA in Skeletal Muscle: Potential Role in Sarcopenia**  
*DA. Rivas, Tufts University (Boston, USA)*

**PARALLEL SESSIONS • BALLROOM 2**

- 1:30/2:30pm **ORAL COMMUNICATIONS**
- 1:30pm **OC44 • The Relationship between Inflammatory Exposure over Ten Years and Slow Gait is Influenced by White Matter characteristics: the Health ABC Study**  
*Neelesh K. Nadkarni, MD, PhD, FRCP1, Stephanie A. Studenski, MD, MPH7, Oscar Lopez, MD3, Robert Boudreau, PhD2, Ge Liu, PhD2, Howard Aizenstein, D, PhD4, Stephen Kritchevsky, PhD5, Kristine Yaffe, MD6, Anne B. Newman, MD, MPH2, Caterina Rosano, MD, MPH2, for the Health ABC Study. (1) Division of Geriatric Medicine and Gerontology - Dept of Medicine, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA (2) Dept of Epidemiology - Graduate School of Public Health, University of Pittsburgh, (3) Dept of Neurology, University of Pittsburgh School of Medicine, and Alzheimer's Disease Research Center, Pittsburgh (4) Dept of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh,; (5) Sticht Center on Aging, Wake Forest School of Medicine, Winston-Salem, North Carolina, USA (6) Department of Psychiatry, University of California at San Francisco, San Francisco, California, USA (7) National Institute on Aging - Longitudinal Studies Section, Baltimore, (USA)*
- 1:45pm **OC45 • Circulating Myostatin Levels in Women and Men using a Novel Multiplexed Mass Spectrometry-based Assay**  
*H. Robert Bergen III, PhD, 1† Joshua N. Farr, PhD2,3‡, Patrick M. Vanderboom, MS1, Thomas A. White3, PhD, Elizabeth J. Atkinson, MS4, Sundeep Khosla, MD2,3, and Nathan K. LeBrasseur, PT, PhD3,5 - 1Proteomics Core; 2Division of Endocrinology, Department of Medicine; 3Robert and Arlene Kogod Center on Aging; 4Division of Biomedical Statistics and Informatics, Department of Health Sciences Research; 5Department of Physical Medicine and Rehabilitation; Mayo Clinic College of Medicine, Rochester, MN, 55905 (USA)*
- 2:00pm **OC46 • Early detection of changes in muscle mass in young and older adults by ultrasound imaging**  
*Marco V. Narici, PhD1, Martino V. Franchi, PhD1 - (1) MRC ARUK Centre for Musculoskeletal Ageing Research, Faculty of Medicine, Derby, United Kingdom Marco V. Narici, PhD1, MRC ARUK Centre for Musculoskeletal Ageing Research, Faculty of Medicine, Derby, United Kingdom - Co-Authors & affiliations: Martino Franchi, PhD, MRC ARUK Centre for Musculoskeletal Ageing Research, Faculty of Medicine, Derby (UK)*
- 2:15pm **OC47 • Utility of the mid-thigh cross-sectional muscle area on CT in diagnosing sarcopenia - Analyses of the association with skeletal muscle volume measured by DXA**  
*Yasumoto Matsui, MD, PhD1, Koji Tsukasaki, MD1, Marie Takemura, MD, PhD1, Atsushi Harada, MD, PhD1, Mariko Nakamoto PhD2, Rei Otsuka PhD2, Fujiko Ando MD, PhD3, Hiroshi Shimokata, MD, PhD4 (1) Department of Orthopedic Surgery, National Center for Geriatrics and Gerontology, Obu, Japan (2) Section of NLS-LSA, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Obu, Japan (3) Faculty of Health and Medical Science, Aichi Shukutoku University, Nagakute, Japan (4) Graduate School of Nutritional Sciences, Nagoya University of Arts and Sciences, Nisshin (Japan)*



**PARALLEL SESSIONS • BALLROOM 2**

- 2:30/3:30pm **SYMPOSIUM 12: LOSS OF MUSCLE QUALITY IN OLD AGE: MECHANISMS AND FUNCTIONAL CONSEQUENCES**  
*Chaired by Marco Narici, PhD1 and Jane A. Kent, PhD2, (1) MRC ARUK Centre for Musculoskeletal Ageing Research, Faculty of Medicine, Derby, United Kingdom (2) Muscle Physiology Lab, Department of Kinesiology, Totman, University of Massachusetts (USA)*
- 2:30pm **Muscle connective tissue changes with aging**  
*Michael Kjaer, PhD1, (1) Institute of Sports Medicine, Bispebjerg Hospital, and Centre of Healthy Aging, Faculty of Health and Medical Sciences, Copenhagen University (Denmark)*
- 2:50pm **Neuromuscular basis of the aging-related loss of muscle quality**  
*Brian C. Clark, PhD1, (1) Ohio Musculoskeletal & Neurological Institute (OMNI), Departments of Biomedical Sciences and Geriatric Medicine, Ohio University, Athens, Ohio (USA)*
- 3:10pm **Role of mitochondrial dysfunction in the loss of muscle quality in old age**  
*Russell Hepple, PhD1, (1) Research Centre for Physical Activity & Health, McGill University, Montreal, QB (Canada)*
- 3:30/4:00pm **COFFEE BREAK AND POSTERS**
- 4:00/5:00pm **SYMPOSIUM 13: SARCOPENIA IN CHRONIC DISEASES - COMMON PATHWAYS VS. DISEASE SPECIFIC FEATURES**  
*Chaired by Wolfram Doehner, Charite, University Berlin, Germany; Alan Sinclair, University Bedfordshire, Luton, UK*
- 4:00pm **The skeletal muscle in heart failure – more relevant than the myocardial muscle?**  
*Alexandre Mebazaa Hôpital Lariboisière, AP-HP Paris (France)- alternatively: John Morley University of St Louis (USA)*
- 4:20pm **Muscle wasting and outcome after stroke – evidence for stroke specific sarcopenia?**  
*W. Doehner, University Berlin (Germany)*
- 4:40pm **Muscle wasting in COPD – impact on symptoms and outcome**  
*Anemie Schols/Maastricht University (The Netherlands) - alternatively: Mitja Lainscak University Clinic Golnik (Slovenia)*
- 5:00/5:30pm **ORAL COMMUNICATIONS**
- 5:00pm **OC48 • A Novel 3D QCT Technique to Quantify the Spatial Muscle-Lipid Distribution in the Thigh and its Association with Muscle Function**  
*Alexander Mühlberg ; Oleg Museyko; Andreas Friedberger; Wolfgang Kemmler; Simon Von Stengel; Klaus Engelke - Institute of Medical Physics, Friedrich Alexander-University Erlangen-Nuremberg (Germany)*
- 5:15pm **OC49 • Do muscle strength and force development differ as a function of age?**  
*Charlotte H. Pion, PhD(c)1,2,3 - (1) Département de Biologie, Faculté des Sciences, Université du Québec à Montréal, Canada - (2) Groupe de recherche en Activités Physiques Adaptées, Faculté des Sciences, Université du Québec à Montréal, Canada - (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Canada. - Co-authors & affiliations : Lucas Goulet, BSc(c)2,3,4, Demers Eric, BSc(c)2,3,4, Sébastien Barbat-Artigas PhD(c)1,2,3, Olivier Reynaud, MSc(c)2,3,4, Stéphanie Chevalier, PhD5, Pierrette Gaudreau, PhD6, Gilles Gouspillou, PhD2,3,4, José A. Morais, MD, PhD5, Mylène Aubertin-Leheudre, PhD2,3,4, Marc Bélanger, PhD2,3 - (4) Département de Kinanthropologie, Faculté des Sciences, Université du Québec à Montréal, Canada - (5) McGill University, Division of Geriatric Medicine, Montreal, Canada - (6) Département de médecine, Université de Montréal (Canada)*
- 5:30/6:30pm **LATE BREAKING NEWS (4)**

**PARALLEL SESSIONS • BALLROOM 1**

8:00/9:00am **ORAL COMMUNICATIONS**

8:00am **OC50 • Importance of the frailty syndrome for the aged cancer patient treatment**

*J. Leibovici, Itzhaki O., Huszar M., Asfour R., Michowitz M. and Sinai J. Dept. of Pathology, Sackler Faculty of Medicine, Tel-Aviv University (Israel)*

8:15am **OC51 • How Do Muscle Quality and Frailty Mediate and Moderate Pathways Leading to Fragility Fractures**

**Andy Kin On Wong** 1, PhD, University Health Network, Osteoporosis Program, Toronto, ON (Canada) -Co-authors and affiliations: Courtney Kennedy (2), George Ioannidis (3), Karen A. Beattie (3), Christopher Gordon (4), Laura Pickard (3), Alexandra Papaioannou (2), David Goltzman (5), Jerilynn Prior (6), Heather Macdonald (7), Maureen Ashe (8), Leigh Gabel (9), Danmei Liu (10), Saija Kontulainen (11), Andrew Frank (11), Wojciech Olszynski (12), K. Shawn Davison (13), Lora Giangregorio (14), Robert Josse (15), Eva Szabo (1), Marta Erlandson (11), Tassos Anastassiades (16), Norma MacIntyre (17), Jonathan D. Adachi (3), Angela M Cheung (1) for the CaMOS Muscle Quality Study - (1) Osteoporosis Program, University Health Network, Toronto, ON (2) Department of Medicine, Hamilton Health Sciences, Hamilton, ON (3) Department of Medicine, McMaster University, Hamilton, ON (4) Department of Nuclear Medicine, McMaster University, Hamilton, ON (5) Departments of Medicine & Physiology, McGill University, Montreal, QC (6) Centre for Menstrual Cycle and Ovulation Research, Vancouver, BC (7) Department of Orthopaedics, University of British Columbia, Vancouver, BC (8) Department of Family Practice, University of British Columbia, Vancouver, BC (9) Department of Experimental Medicine, University of British Columbia, Vancouver, BC (10) Centre for Hip Health and Mobility, Vancouver, BC (11) College of Kinesiology, University of Saskatchewan, Saskatoon, SK (12) Department of Medicine, University of Saskatchewan, Saskatoon, SK (13) Graduate Studies Research, University of Victoria, Victoria, BC (14) Department of Kinesiology, University of Waterloo, Waterloo, ON (15) Department of Medicine, St. Michael's Hospital, Toronto, ON (16) Department of Medicine, Queen's University, Kingston, ON (17) Department of Rehabilitation Sciences, McMaster University, Hamilton, ON (Canada)

8:30am **OC52 • Sarcopenia predicts incident disability, institutionalisation and mortality in community dwelling older Men: The Concord Health and Ageing in Men Project**

**V Hirani**, PhD1,2,3, V Naganathan, PhD1, F Blyth1, D Le Couteur, PhD 4, L Handelsman, PhD 4, L Waite, PhD 1, R Cumming, PhD 1,2,3 – 1 Centre for Education and Research on Ageing, Concord Hospital, University of Sydney, NSW, Australia. 2 - School of Public Health, University of Sydney, NSW, Australia. 3 - The ARC Centre of Excellence in Population Ageing Research, University of Sydney, Australia. 4 - Department of Andrology, Concord Hospital & ANZAC Research Institute, University of Sydney. 5 - ANZAC Research Institute & Charles Perkins Centre, University of Sydney, Sydney (Australia)

8:45am **OC53 • Physical Capability Predicts Mortality in Middle-Aged as well as Older Community-Based Adults**

**Victoria L Keevil**, 1,2, BMBCh MPhil - 1. The European Prospective Investigation of Cancer-Norfolk Study, Department of Public Health and Primary Care, University of Cambridge, Strangeways Research Laboratory, Wort's Causeway, Cambridge, CB1 8RN, UK - 2. Specialist Registrar, Department of Medicine for Older People, Royal Bournemouth Hospital, Castle Lane East, Bournemouth, Dorset, BH7 7DW, UK - R Luben1, S Hayat1, N Dalzell1, A Aihie Sayer3, N J Wareham4 and Kay-Tee Khaw1 - 1. The European Prospective Investigation of Cancer-Norfolk Study, Department of Public Health and Primary Care, University of Cambridge, Strangeways Research Laboratory, Wort's Causeway, Cambridge, UK 3. Academic Geriatric Medicine, MRC Lifecourse Epidemiology Unit, Faculty of Medicine, University of Southampton, Southampton, UK 4. MRC Epidemiology Unit, Institute of Metabolic Science, University of Cambridge School of Clinical Medicine, Cambridge (UK)

9:00/10:00am **SYMPOSIUM 14: MUSCLE DISUSE AS A PIVOTAL PROBLEM IN SARCOPENIA-RELATED MUSCLE LOSS AND DYSFUNCTION**

*Chaired by S M. Phillips, Ph.D. McMaster University, Hamilton, ON (Canada)*

9:00am **Disuse and the concept of 'anabolic resistance' in protein metabolism**

*L van Loon, Ph.D. University of Maastricht, Maastricht (the Netherlands)*

9:20am **Catabolic crises in the elderly: the impact of disuse**

*D Paddon-Jones, Ph.D. University of Texas Medical Branch, Galveston, TX (USA)*

9:40am **Reduced physical activity as part of the disuse continuum**

*M Devries, Ph.D. McMaster University, Hamilton, ON, (Canada)*

10:00/10:30am **KEYNOTE: FRAILTY AND SARCOPENIA, TWO SIDES OF THE SAME COIN**

*M CESARI (Toulouse, France)*

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

11:00/12:00am **SYMPOSIUM 15: FRAILTY AND FALLS EVIDENCE AND GAPS**

*Chaired by C. Sieber Prof. Dr. & E Freiburger Associated Prof. PhD Institute for Biomedicine of Aging, Friedrich-Alexander (FAU) -Universität Erlangen-Nürnberg (Germany)*

11:00am **Frailty and Falls in TILDA: Do frailty indices differ when they are constructed using exclusively self-reported or test based measures?**

*Theou O1, O'Connell MDL2, King-Kallimanis BL2, O'Halloran AM2, Rockwood K3, Kenny RA4 - (1)Theou O (presenting author), Post-doctoral Fellow, Dalhousie University, Rm 1313 Veterans' Memorial Bldg, 5955 Veterans' Memorial Lane, Halifax, Nova Scotia, B3H2E1, Canada - (2) O'Connell MDL, King-Kallimanis BL, O'Halloran AM, Kenny RA The Irish Longitudinal Study on Ageing, Department of Medical Gerontology, Trinity College, Dublin 2, Ireland - (3) Rockwood K, Professor of Medicine (Geriatric Medicine & Neurology) and Kathryn Allen Weldon Professor of Alzheimer Research, Dalhousie University, Rm 1421 Veterans' Memorial Bldg, 5955 Veterans' Memorial Lane, Halifax, Nova Scotia, B3H2E1, Canada - (4) Kenny RA, Mercer's Institute for Successful Ageing, St. James's Hospital, Dublin 8 (Ireland)*

11:20am **Frailty and falls in the oldest old: LiLACS NZ**

*N Kerse1 University of Auckland. - R Mules2, R Teh2, A Rolleston3. (1) University of Auckland 261 MORRIN RD Auckland 1072 New Zealand (2) Department of General Practice and Primary Health Care, University of Auckland (3) Te Kupenga Haoura Māori, University of Aucklands (New-Zealand)*

11:40am **Frailty and Falls in DEGS1. Findings from the German Health Interview and Examination Survey**

*J Fuchs, PhD1, C Scheidt-Nave, PhD1, E Freiburger, PhD2 - (1) Robert Koch --Institute, Department of Epidemiology and Health Monitoring, Berlin (2) FAU Erlangen-Nürnberg, Institute for Biomedicine of Aging, Nuremberg (Germany)*

12:00/1:00pm **LATE BREAKING NEWS (4)**

**PARALLEL SESSIONS • BALLROOM 2**

8:00/8:30am **LATE BREAKING NEWS (2)**

8:30/10:30am **ORAL COMMUNICATIONS**

8:30am **OC54 • Frailty markers were associated with entry into and less recovery from disability profiles in healthy community-dwelling older adults. The NuAge study**

*Nicole Dubuc, PhD 1-2, Michel Raïche, PhD 1, Pierrette Gaudreau, PhD 3-4, Bryna Shatenstein, PhD P.Dt. 5-6, José A. Morais, MD 7, Hélène Payette, PhD 1-2*  
Presenting author & affiliation: Michel Raïche, PhD, Research Centre on Ageing, CSSS-IUG of Sherbrooke, Canada (1) Research Centre on Ageing, CSSS-IUG of Sherbrooke, Québec, Canada (2) Faculty of Medicine and Health Sciences, Université de Sherbrooke, Québec, Canada (3) Faculty of medicine, University of Montreal, Montréal, Québec, Canada (4) CHUM Research Center, Montréal, Québec, Canada (5) Département de nutrition, Université de Montréal, Québec, Canada (6) Centre de recherche, Institut universitaire de gériatrie de Montréal, Québec, Canada (7) Division of Geriatric Medicine, McGill University, Montréal, Québec (Canada)

8:45am **OC55 • Serum levels of C-terminal agrin fragment (CAF) are associated with sarcopenia in older People: Results from the iSIRENTE Study.**

*Anna Maria Martone, MD,1 Riccardo Calvani, PhD,1 Emanuele Marzetti, MD, PhD1, Matteo Tosato, MD, 1 Maria Lorenzi, PhD, 1 Roberto Bernabei, MD,1 Francesco Landi, MD, PhD 1 1 Department of Geriatrics, Neurosciences and Orthopedics, Catholic University of the Sacred Heart, Rome (Italy)*

9:00am **OC56 • Frail older people in nursing homes : Quality of life and care modalities**

*Enid Wai-yung , RN, RM, PhD, Center for Gerontology Nursing, School of Nursing, the Hong Kong Polytechnic University (Hong Kong )*

9:15am **OC57 • Frailty and Aging: an actual challenge**

*Roberto Carlos Castrejón-Pérez, PhD1 (1) Geriatric Epidemiologic and Clinical Research Department at Instituto Nacional de Geriatria, Mexico City, (México)*

9:30am **OC58 • The exercise-induced myokine apelin reverses age-related skeletal muscle weakness**

*Vinel C 1,2, Deleruyelle S1, Legonidec S1, Batut A1, Guyonnet S2, PhD, Pahor M3,MD, PhD, Vellas B2,MD, PhD, Valet P1, PhD, and Dray C1, PhD.*  
Presenting author: Claire Vinel, PhD student, I2MC, Inserm U1048 and Gérontopole U1027, Toulouse. - 1: I2MC, InsermU1048, Toulouse - 2: Gérontopole, CHU Toulouse, Inserm U1027.-3 :University of Miami, Gainesville (USA)

9:45am **OC59 • Circulating Branched Chain Amino Acids are Associated with Body Composition, Physical Function and, Inflammation in Older Adults**

*Michael S. Lustgarten - Co-authors: Roger A. Fielding1 - Affiliations: 1Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center, Tufts University, Boston, MA (USA)*

10:00am **OC60 • Ruits and vegetables intake and physical activity as predictors of disability risk factors in african american health study**

*Sandra ML Ribeiro, PhD1, John E Morley, MB BCh2, Theodore K Malmstrom, PhD2,3, Douglas K Miller, MD4 - Presenting author affiliation: 1-University of São Paulo, School of Arts, Science and Humanities-Brazil; - Co-authors affiliation: 2-St Louis University, School of Medicine, Geriatrics Division; 3-St Louis University, School of Medicine, Neurology & Psychiatry Department; 4- Regenstrief Institute, Inc. – IU Center for Aging Research (USA)*

10:15am **OC61 • Antihypertensive use and functional outcome events among older adults in the LIFE Study**

*Thomas W. Buford 1 Michael E. Miller,2 Timothy S. Church,3 Thomas M. Gill,4 Rebecca Henderson,2 Fang-Chi Hsu,2 Mary M. McDermott,5 Neelesh Nadkarni,6 Marco Pahor,1 Randall S. Stafford,7 Christy S. Carter,1 for the LIFE Study Group - 1University of Florida College of Medicine, Gainesville, FL - 2 Wake Forest University, Winston Salem, NC - 3 Pennington Biomedical Research Center, Baton Rouge, LA - 4 Yale University School of Medicine, New Haven, CT - 5 Northwestern University, Feinberg School of Medicine, Chicago, IL - 6 University of Pittsburgh School of Medicine, Pittsburgh, PA - 7 Stanford University School of Medicine, Palo Alto, CA (USA)*

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

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

11:00am **OC62 • A Frailty-Related Phenotype in HIV+ Men is Associated with Increased Inflammation and Hormonal Dysregulation**

*Kristine M. Erlandson, MD1. Sandra Reynolds, MS2, Lisa P. Jacobson, ScD2, Joseph Margolick, MD, PhD2, Adrian S Dobs, MD, MHS2, Frank Palella, MD3, Jordan E. Lake, MD, MS4, Lawrence Kingsley, PhD5, Todd T. Brown, MD, PhD2. Affiliations: (1)University of Colorado-Anschutz Medical Center; Aurora, CO - (2) Johns Hopkins University; Baltimore, MD (3) Northwestern University Medical Center; Chicago, IL (4)UCLA Medical Center, Los Angeles, CA (USA)*

11:15am **OC63 • Association of Physical Impairments with FNIH Sarcopenia definitions of Clinical Weakness: Data from the Health & Retirement Survey**

*John A. Batsis #, MD, †Cassandra M. Germain, PhD, \*Elizabeth Vásquez, DrPH, #Stephen J. Bartels, MD, MS †Duke University Medical Center, Bryan Alzheimer's Disease Research Center, Durham, NC \*Department of Epidemiology and Biostatistics, School of Public Health, University at Albany (SUNY), Albany, NY #Department of Medicine, Geisel School of Medicine at Dartmouth, Dartmouth-Hitchcock Medical Center, Center for Health and Aging, Dartmouth College, Hanover, NH(USA)*

11:30am **OC64 • The impact of different measures of frailty on rates of health service use among the community dwelling elderly.**

*Aisling M. O'Halloran PhD1, Lorna Roe BA2, Rose Anne Kenny MD1, Charles Normand PhD2. - (1) The Irish Longitudinal Study of Ageing (TILDA), Centre for Medical Gerontology, Trinity College, Dublin, Ireland.(2) Centre for Health Policy and Management, Trinity College, Dublin (Ireland)*

**PARALLEL SESSIONS • BALLROOM 2**

- 11:45am **OC65 • The relation of muscle strength and gait speed with muscle cross-sectional area determined by mid thigh computed tomography - comparison and skeletal muscle mass measured by dual-energy X-ray absorptiometry**  
*Koji Tsukasaki, M.D. Hospital, National Center for Geriatrics and Gerontology, Aichi, Japan - Yasumoto Matsui, M.D., Ph.D.1, Marie Takemura, M.D., Ph.D.1, Atsushi Harada, M.D., Ph.D.1, Mariko Nakamoto, Ph.D.2, Rei Otsuka, Ph.D.2, Fujiko Ando, M.D., Ph.D.2,3, Hiroshi Shimokata, M.D., Ph.D.2,4 (1) Hospital, National Center for Geriatrics and Gerontology, Aichi, Japan (2) Section of NLS-LSA, National Center for Geriatrics and Gerontology, Aichi, Japan (3) Faculty of Health and Medical Sciences, Aichi Shukutoku University, Aichi, Japan (4) Graduate School of Nutritional Sciences, Nagoya University of Arts and Sciences, Aichi (Japan)*
- 12:00/1:00pm **SYMPOSIUM 16: PHYSICAL PERFORMANCE TESTS AND BODY COMPOSITION ASSOCIATIONS: FROM POPULATION TO CLINICAL SETTINGS**  
*Chaired by Ricardo Salinas-Martínez, MD (1) Head of the Department of Geriatrics, "Dr. José Eleuterio González" University Hospital; University Gerontological Comitee, Autonomous University of Nuevo León, Monterrey, Nuevo León (Mexico)*
- 12:00am **Correlation between muscle mass by bioelectrical impedance analysis, calf circumference and grip strength.**  
*Karina Rodriguez-Quintanilla1, Ricardo Salinas-Martinez1-2, Xochitl Ortiz-Jimenez2, Carlos Quiñonez-Olivas1, \*Luis Miranda-Plata1(1) Department of Geriatrics, "Dr. José Eleuterio González" University Hospital, (2) University Gerontological Committee, Autonomous University of Nuevo León (Mexico)*
- 12:20am **Skeletal Muscle Mass Index In A Geriatric Outpatient Population**  
*Karina Rodriguez Quintanilla MD1, Ricardo Salinas Martinez MD1,4, Guillermo Guajardo Alvarez MD1, Javier A. Davila Olalde MD1, David Vega Morales MD2, Pedro A. Garcia Hernandez MD3, Mario A. Garza Elizondo MD2. - (1) Geriatrics Department - (2) Rheumatology Department (3) Endocrinology Department, "Dr. José Eleuterio González" University Hospital (4) University Gerontological Comitee, Autonomous University of Nuevo León, Monterrey, Nuevo León (Mexico)*
- 12:40am **Association Between Handgrip Strength And Body Mass Index And Other Simple Clinical And Anthropometric Measurements: A Cross-Sectional Population Based Study**  
*Raúl Hernán Medina-Campos, MD, MSc1; Mario Ulises Pérez-Zepeda, MD, MSc1; Luis Miguel Gutiérrez-Robledo, MD, PhD1 (1) Research Division at the Hospital Infantil de México, Mexico City (México)*

**P1 • Impairment of Muscle Repair with Severe Intramuscular Lipid Accumulation Observed in Obese Diabetic Mice after Muscle Injury**

**Masaki Mogi**, MD, PhD, Department of Molecular Cardiovascular Biology and Pharmacology, Ehime University, Graduate School of Medicine, Tohon, Ehime, 791-0295, Japan - Co-author & affiliations: Katsuhiko Kohara, MD, PhD2, Hiroto Nakaoka, PhD1, Harumi Kan-no, PhD1, Kana Tsukuda, PhD1, Xiao-Li Wang, MD1, Toshiyuki Chisaka, MD1, 4, Masayoshi Kukida, MD1, 3, Huiyu Bai, MD1, Bao-Shao Shan, MD1, Jun Iwanami, PhD1, and Masatsugu Horiuchi, MD, PhD1 - 1Department of Molecular Cardiovascular Biology and Pharmacology, Ehime University, Graduate School of Medicine, Tohon, Ehime, 791-0295, Japan - 2Department of Neurology and Geriatric Medicine, Ehime University, Graduate School of Medicine, Tohon, Ehime, 791-0295, Japan - 3Department of Cardiology, Pulmonology, Hypertension and Nephrology, Ehime University, Graduate School of Medicine, Tohon, Ehime, 791-0295, Japan - 4Department of Pediatrics, Ehime University, Graduate School of Medicine, Tohon, Ehime, 791-0295, Japan

**P2 • Handgrip Strength Predicts Cognitive and Physical Performance of Elderly: Nursing Home Study in West Jakarta**

**Y Suzy Handajani**, PhD1, Yuda Turana, MD, PhD2 (Jakarta)

**P3 • Domains of quality of life and its relationship with Frailty Syndrome : Cross sectional study on elderly in nursing home, West Jakarta**

**Y Suzy Handajani**, PhD1, Yuda Turana, MD, PhD2 (Jakarta)

**P4 • Functional disability predicts mortality in patients on chronic hemodialysis**

**M Bossola**, Alice Laudisio, Manuela Antocicco, Luigi Tazza (Italy)

**P5 • The Korean version of FRAIL scale: clinical feasibility and validity in Korean older adults**

**Hee-Won Jung**1,2, Cheol-Ho Kim1,2, Hyun-Jung Yoo1, Si-Young Park1, Sun-Wook Kim1,2, Kwang-il Kim1,2 (Korea)

**P6 • Cut-off values for gait speed and handgrip strength in Mexican older adults**

**M Pérez-Zepeda**, MD1 (1)Clinical and Epidemiological Research Department at Instituto Nacional de Geriatria, Mexico City, (México)

**P7 • Rheumatoid polyarthritis and primary hyperparathyroidism: fortuitous association?**

**Zulficar AA**, M.D 1, Lussato S 1, Novella JL, M.D, PhD 1 1. Department of Internal Medicine and Geriatrics, Reims University Hospital, Reims, (France)

**P8 • Hypervitaminia B12 in the elderly: marker of frailty in the elderly?**

**Zulficar AA** M.D 1, Sebaux A 1, Mahmoudi R M.D 1, Andres E M.D, Ph.D 2, Novella JL M.D, Ph.D 1 1. Department of Internal Medicine and Geriatrics, CHU Reims, Reims, France 2. Department of Internal Medicine, CHRU Strasbourg, Strasbourg, (France)

**P9 • The unsuspected intrinsic property of melanin to dissociate the water molecule, implications in the context of Gerontology**

**A Solís-Herrera**, MD, Ph.D. Human Photosynthesis Study Center, Director and Founder. Department of R & D & I, Aguascalientes, (México)

**P10 • Prevalence of sarcopenia, dynapenia and sarco-dynapenia and associated factors in older adults in the city of Sao Paulo – SABE study**

**T da Silva Alexandre**, PhD1, Yeda Aparecida de Oliveira Duarte, PhD2, Jair Lício Ferreira Santos, PhD3, Maria Lúcia Lebrão, MD, PhD4 (Brazil)

**P11 • Physical activity in hospitalized elderly medical patients; How active are they, and what motivates to physical activity – a pilot study**

**Holst**, Mette. RN, MSc, Ph.D. Centre for Nutrition and Bowel Disease, Aalborg University Hospital and Aalborg University (1), Faculty of Medicine and Health (Denmark)

**P12 • The impact of fasting duration and hospital stay on post-operative sarcopenia following radical cystectomy**

**Hiroaki Aoki**1, Ayako Otaka1, Takeshi Ieda1, Fumitaka Shimizu1, Satoru Muto2, Raizo Yamaguchi2, Shigeo Horie1 - 1Department of Urology, Juntendo University Graduate School of Medicine, Tokyo, Japan, 2Department of Urology, Teikyo University, Tokyo, Japan

**P13 • Determinants of Intermediate Outcome Following Clinical Pathway for Rehabilitation in Frail Elderly with Hip Fracture**

**Hyun-Kyung Do**, MD, Gangpyo Lee, MD, Kyoung-Eun Kim, MD, PhD, Jae-Young Lim, MD, PhD1, Young-Kyun Lee, MD, PhD, Kyoung-Hoi Koo, MD, PhD2 - 1Department of Rehabilitation Medicine, 2 Department of Orthopedic Surgery, Seoul National University College of Medicine, Seoul National University Bundang Hospital

**P14 • Nutritional status and quality of life in different populations of older people in Poland**

**J Kostka**1,2, E Borowiak1,3, T Kostka1 - 1 Department of Geriatrics, Medical University of Lodz, Poland - 2 Department of Physical Medicine, Medical University of Lodz, Poland - 3 Institute of Nursing, Medical University of Lodz, Poland

**P15 • Decreased HRQoL (SF-12) physical scores are associated with increased levels of frailty in older persons with minor fractures up to six months post-injury**

**J Lebon**, Ph.D, Unité de recherche Traumatologie - Urgence - Soins intensifs, Centre de recherche du CHU de Québec, hôpital de l'Enfant-Jésus - M-J Sirois, Ph.D (1), V Fillion, B.Sc (1), V Provencher, Ph.d (1), M Emond, MD, M.Sc (1) – 1 Unité de recherche Traumatologie - Urgence - Soins intensifs, Centre de recherche du CHU de Québec, hôpital de l'Enfant-Jésus

**P16 • Effects of low-magnitude high-frequency vibration on fall rate and functional performance in community elderly: A 1-year post-intervention follow-up**

**Chi-Yu Li**, PhD, Kwok-Sui Leung, MD, Wing-Hoi Cheung, PhD - Department of Orthopaedics and Traumatology, The Chinese University of Hong Kong

**P17 • Cognitive frailty, a novel target for the prevention of elderly dependency**

**Ruan Qingwei**, Yu Zhuowei\*, Bao Zhijun, Li Jin, Chen Ma, He Wei - Shanghai Institute of Geriatrics and Gerontology, Research Center of Aging and Medicine, Shanghai Key Laboratory of Clinical Geriatrics, Huadong Hospital, Shanghai Medical College, Fudan University, Shanghai 200040, China.

**P18 • Who are frail elderly?**

**M Duarte**, PhD1 - C Paúl, PhD1, I Martín, PhD1 (1)Research and Education Unit on Aging–UNIFA/ Institute of Biomedical Sciences Abel - Salazar-ICBAS-University of Porto, Porto, Portugal

**P19 • Study of Groningen Frailty Indicator (GFI) in the community vs clinical context**

**M Duarte**, PhD1 – C- Paúl, PhD1, I Martín, PhD1 (1)Research and Education Unit on Aging–UNIFA/ Institute of Biomedical Sciences AbelSalazar-ICBAS-University of Porto, Porto, Portugal

**P20 • Impact of nutrition and exercise in frail older patients in a tertiary care hospital in india**

**V Gunasekaran**, 1; R Kandel, 2; V Kumar, 3; A Ambashtha, 4; S Jathar, 5; P Chatterjee, 6; A Ballave Dey, 7 - (1, 2, 3, 4, 5) Junior Resident, Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi, 110029, India - (6)Assistant Professor, Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi, 110029, India - (7) Professor, Department of Geriatric Medicine, All India Institute of Medical Sciences, New Delhi, 110029, India

**P21 • A Sensory Stimulation Care Programme for Nursing Home Residents with Cognitive Frailty : Positive Changes of Residents and Care Staff**

**E Kwong**, PhD, C Lai, PhD, M Tse, PhD, J Liu, PhD, A Wong, PhD - Centre for Gerontology Nursing, School of Nursing, the Hong Kong Polytechnic University, Hong Kong

**P22 • Physical frailty indicator as determinant and predictor factors of disability in older people in nursing homes in Jakarta, Indonesia**

**Y Suzy Handajani**, PhD1, Yuda Turana, MD, PhD2, Nelly Tina Widjaja, MD, MSC3 - 1. Public Health Department of Faculty of Medicine and Center for Health Research, Atma Jaya Catholic University - 2. Department of Neurology of Faculty of Medicine and Center for Health Research, Atma Jaya Catholic University - 3. Public Health Department of Faculty of Medicine .Atma Jaya Catholic University

**P23 • Frailty syndrome, a prognostic marker in elderly cancer patients.**

**R Kandel**, MD, J Banerjee, PhD1, S Thakur, MD1, G Rajesh Desai, MD1, AB Dey, MD - 1. Department of Geriatric Medicine, All India Institute of Medical Sciences (AIIMS), New-Delhi, India.

**P24 • Nutritional assessment in ambulatory patients with chronic pancreatitis**

**Rasmussen HH**, Schou-Olesen S, Kähler M, Drewes AM, **Holst M** - Centre for Nutrition and Bowel Disease, Aalborg University Hospital, Aalborg, Denmark

**P25 • The Effects of Dietary -Hydroxy- -Methylbutyrate and -Alanine and Physical Activity on Muscle Mass, Contractility, and Myosin Composition in Aged Male Rats**

**Cara Acksel**, ATC 1, Sean M. Garvey, Ph.D. 2, David Russ, PT, PhD 3,4 - (1) School of Applied Health Sciences and Wellness, Ohio University, Athens, OH - (2) Abbott Nutrition R&D, Columbus, OH - (3) School of Rehabilitation and Communication Sciences, Ohio University, Athens, OH - (4) Ohio Musculoskeletal and Neurological Institute, Heritage College of Osteopathic Medicine, Athens, OH

**P26 • Decreased psychosocial health scores are associated with increased levels of frailty in older persons with minor fractures up to six months post-injury**  
M-J Sirois, O.T., PhD(1,2), V Fillion, BSc, MSc(candidate)(1,2), M Émond, MD, MSc,(2,3) - (1)Department of rehabilitation, Université Laval, Québec, Canada - (2)The Canadian Emergency Team Initiative (CETI) - (3) Department of family and emergency medicine, Université Laval, Québec, Canada

**P27 • Frailty transitions in community-dwelling older people in Israel**  
Shelley A. Sternberg MD, MSCE, FRCP - Maccabi Healthcare Services, Modiin, Israel - Netta Bentur PhD2 - Jennifer Shuldiner, MA2 - The Myers-JDC Brookdale Institute, Jerusalem, Israel

**P28 • Sarcopenia in patients with short bowel syndrome**  
Rasmussen HH, Vinter-Jensen L, Kohler M, Holst M - Center for Nutrition and Bowel Disease, Aalborg University Hospital and Department of Clinical Medicine, Aalborg University, Aalborg, Denmark

**P29 • Which tool for identification of sarcopenia in patients with short bowel syndrome?**  
Rasmussen HH, Kohler M, Vinter-Jensen L, Holst M - Center for Nutrition and Bowel Disease, Aalborg University Hospital and Department of Clinical Medicine, Aalborg University, Aalborg, Denmark

**P30 • The age-related differences of apoptosis and calpain-3 in atrophied skeletal muscles**  
Sang Yoon Lee, MD - Department of Physical Medicine & Rehabilitation, Chung-Ang University College of Medicine, 102, Heukseok-ro, Dongjak-gu, Seoul, 156-755, South Korea - Jae-Young Lim, MD, PhD Department of Rehabilitation Medicine, Seoul National University College of Medicine, Seoul National University Bundang Hospital, 82, Gumi-ro 173 Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-707, South Korea

**P31 • Anthropometric characteristics of postmenopausal women depending on appendicular skeletal mass**  
Vladyslav Povoznyuk, Nataliia Dzerovych, Roksolana Povoznyuk - D.F. Chebotarev Institute of gerontology NAMS Ukraine, Kyiv, Ukraine

**P32 • Ultrasound echogenicity at the rectus femoris predicts attenuation on computed tomography in the evaluation of thigh tissue composition**  
M O. Harris-Love, DSc, MPT1,2,3, N A. Avila, MD4,5, B Adams, MPA, RN1,3, C Ismail, EdD, RDMS1, Syed H. Zaidi, BS, RT (R) (CT)4, C A. Kassner, BS, RT (R) (CT)4, F Liu, MD6, M R. Blackman, MD3,7,8 - (1) Muscle Morphology, Mechanics, and Performance Laboratory, Veterans Affairs Medical Center, Washington, DC, USA - (2)Milken Institute School of Public Health, The George Washington University, Washington DC, USA - (3) Research Service, Veterans Affairs Medical Center, Washington DC, USA - (4)Radiology Service, Veterans Affairs Medical Center, Washington DC, USA - (5)Cardiovascular and Pulmonary Branch, National Heart, Lung, and Blood Institute – The National Institutes of Health, Bethesda, MD, USA - (6) Nuclear Medicine Section, Veterans Affairs Medical Center, Washington DC, USA (7) Departments of Medicine, Biochemistry & Molecular Medicine, The George Washington University, Washington DC, USA - (8) Departments of Medicine and Rehabilitation Medicine, Georgetown University School of Medicine, Washington DC, USA

**P33 • Ultrasound proxy measures of muscle quality are associated with strength and functional performance in older men**  
MO. Harris-Love, DSc, MPT1,2,3, B Adams, MPA, RN1,3, C Ismail, EdD, RDMS1, Hl J. Hernandez, DPT1, V McIntosh, BS1, J Yang, MD4, L Chacko, MD4, M R. Blackman, MD3,5,6, B S. Garra, MD7 (1) Muscle Morphology, Mechanics, and Performance Laboratory, Veterans Affairs Medical Center, Washington, DC, USA - (2) Milken Institute School of Public Health, The George Washington University, Washington DC, USA - (3) Research Service, Veterans Affairs Medical Center, Washington DC, USA - (4) Physical Medicine and Rehabilitation Service, Veterans Affairs Medical Center, Washington DC, USA (5) Departments of Medicine, Biochemistry & Molecular Medicine, The George Washington University, Washington DC, USA - (6) Departments of Medicine and Rehabilitation Medicine, Georgetown University School of Medicine, Washington DC, USA - (7) Radiology Service, Veterans Affairs Medical Center, Washington DC, USA

**P34 • Sarcopenia and Sarcopenic Obesity and Functional Implications in Poliomyelitis Survivors**  
Jae-Young Lim, MD, PhD, Hyunkyung Do, MD, Joong Hoon Lee, MD1, Soo Jeong Han, MD2, PhD - Dept. of Rehabilitation Medicine, Seoul National University Bundang Hospital, Seongnam, 1 Gyeongsang National University Hospital, Jinju, 2 Ewha Womans University Medical Center, Seoul, Korea

**P35 • Low-magnitude high-frequency vibration (LMHFV) improved the skeletal muscle quality and retarded the sarcopenia progression in SAMP8 mouse.**  
Guo AY PhD, Leung KS MD and Cheung WH PhD - Department of Orthopaedics and Traumatology, Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong.

**P36 • Sarcopenia is a measurable preoperative predictor of surgical morbidity in advanced ovarian cancer**  
Amanika Kumar, MD1, (1) Mayo Clinic, Division of Gynecologic Surgery - Michael Moynagh, MD2, William A. Cliby, MD1, Michaela E. McGree, BS3, Phillip M. Young, MD2, Jamie N. Bakkum-Gamez, MD1, Carrie L. Langstraat, MD1, Sean C. Dowdy, MD1, Aminah Jatou, MD4, Andrea Mariani, MD1 (1) Mayo Clinic, Division of Gynecologic Surgery, (2) Mayo Clinic, Department of Radiology, (3) Mayo Clinic, Division of Biostatistics, (4) Division of Medical Oncology

**P37 • Functional decline and residual working capacity of the elderly people**  
Olena Tomarevska, MD, PhD, Olexsandr Poliakov, MD, PhD - Institute of Gerontology by D.F. Chebotarev of National Academy Medical Sciences of Ukraine, Kiev, Ukraine

**P38 • Frailty among community dwelling older adults in the Malaysian Falls Assessment Intervention Trial (MyFAIT)**  
S B Kamaruzzaman1, H M Khor1, M P Tan1 - 1 Division of Geriatric Medicine, Department of Medicine, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia

**P39 • Care giver burden of frail elders in an urban setting in malaysia**  
Jeyanthini Sathasivam MBBS, MPH 1,3, Shaharom Norazian Che Mat Din MBBS, MPH 3, Shahul Bahiyah Kamaruzzaman MRCP, PHD 2, Faridah Mohd Hairi MPH, D. Sc 1,4, Ng Chiu Wan PHD1, Karuthan Chinna PHD1 (Malaysia)

**P40 • The association between single household family structures and frailty in a rural Japanese population: The Nagasaki Islands study**  
Hiroto Yamanashi, MD1,3, Yuji Shimizu, MD, PhD2, Jun Koyamatsu, MD3, Mako Nagayoshi, PhD2, Kadota MD, PhD2, Koya Ariyoshi, MD, PhD1, Takahiro Maeda, MD, PhD2,3 - (1) Department of Clinical Medicine, Institute of Tropical Medicine, Nagasaki University, Sakamoto, Nagasaki, Japan - (2) Department of Community Medicine, Nagasaki University Graduate School of Biomedical Science, Sakamoto, Nagasaki, Japan - (3) Department of Island and Community Medicine, Nagasaki University Graduate School of Biomedical Science, Goto, Nagasaki, Japan

**P41 • Is Trunk Posture in Walking a Better Marker than Gait Speed in Predicting Decline in Function and Subsequent Frailty?**  
Merchant Reshma A1,7, Banerji S2, Singh G2, Chew E1, Poh CL3, Guo YR2, Pang YW2, Sharma M4, Kambadur R5, Tay SK2,6 - 1 Department of Medicine, National University Health System, Singapore - 2 Department of Paediatrics, Yong Loo Lin School of Medicine, National University of Singapore, Singapore - 3 School of Chemical and Bioengineering, Nanyang Technological University, Singapore - 4 Department of Biochemistry, Yong Loo Lin School of Medicine, National University of Singapore, Singapore - 5 School of Biological Sciences, Nanyang Technological University, Singapore - 6 Department of Paediatrics, KIP-National University Children's Medical Institute, National University Health System, Singapore - 7 Yong Loo Lin School of Medicine, National University of Singapore, Singapore

**P42 • The benzodiazepine withdrawal syndrome in the elderly: a difficult diagnosis to be issued in frail elderly.**  
Martin-Kleisch A 1, Henry N 1, Novella JL M.D 1, PhD, Zulficar AA M.D 1 - Zulficar AA, Department of Internal Medicine and Geriatrics, University Hospital of Reims, Reims, France - Martin-Kleisch A, Henry N, Novella JL M.D.: Department of Internal Medicine and Geriatrics, University Hospital of Reims, Reims, France

**P43 • Compare the Prevalence of Sarcopenia by different criteria among community dwelling elderly men in Beijing**  
Yixin Hu, MD1 - Department of health care in Nanlou, PLA General Hospital, Beijing, China - Hongyan Dong, master Drgree2, Ying Zhang, Bachelor degree3, Li Fan, MD1, Manxiu Zhang 1, Jing Sun 1, Xiaoj Han 1, Liang-Kung Chen, PhD4 - (1)Department of health care in Nanlou, PLA General Hospital, Beijing, China - (2)Department of health care, PLA 306 Hospital, Beijing, China - (3) Department of bone mineral density in Nanlou, PLA General Hospital, Beijing, China - (4)Aging and Health Research Center, National Yang Ming University, Taipei, Taiwan.

**P44 • The Impact of Preoperative Assessment of Physical Frailty for Gastrointestinal Surgery in the Elderly**  
Ken Sugimoto, MD, PhD, Geriatric Medicine, Osaka University Graduate School of Medicine, Osaka, Japan - Yoshihiro Maekawa, MD, PhD1, Chikako Nakama, MD, PhD1, Chung-Chi Wang, MD, PhD1, Yukiko Yasunobe, MD, PhD1, Yasushi Takeya, MD, PhD1, Koichi Yamamoto, MD, PhD1, Hiromi Rakugi, MD, PhD1. - [1] Geriatric Medicine, Osaka University Graduate School of Medicine, Osaka, Japan

**P45 • Beta-hydroxy-beta-methylbutyrate and vitamin D coordinately prevent skeletal muscle atrophy in vivo**  
Sumito Ogawa, MD., Ph.D. Department of Geriatric Medicine, Graduate School of Medicine, The University of Tokyo. Japan - Mitsutaka Yakabe, MD., Ph.D. Department of Geriatric Medicine, Graduate School of Medicine, The University of Tokyo. Japan - Sumito Ogawa, MD., Ph.D., Masahiro Akishita, MD., Ph.D. Department of Geriatric Medicine, Graduate School of Medicine, The University of Tokyo. Japan

**P46 • Self-reported Physical Function is reduced in Persons with Dynapenia and Obesity: Data from the longitudinal Osteoarthritis Initiative**  
John A. Batsis, MD1,2,3, Alicia J. Zbhelik, MD1,2,4, MPH, Dawna Pidgeon, PT3, Stephen J. Bartels, MD, MS1,2,4,5, 1Geisel School of Medicine at Dartmouth, Hanover, New Hampshire, United States 2Department of Medicine, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, United States 3Department of Physical Medicine & Rehabilitation, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, United States 4The Dartmouth Institute for Health Policy, Lebanon, New Hampshire, United States 5Department of Community & Family Medicine, Psychiatry, Dartmouth College, Hanover, New Hampshire, United States

**P47 • Pre-sarcopenia (low muscle mass) differentiates women with low bone mass (BM) and osteoporotic fractures from those with low BM and no fractures**  
Mautalen C, Mastaglia S, Bagur A, Oliveri B, Mautalen, Salud e Investigación.

**P48 • Elderly hand as a new geriatric syndrome in cardiological practice**  
Korshun E.I (1), Ilnitki A.N.(2) - (1),(2)Scientific-research Center «Gerontology», Moscow, (1) Institute of bioregulation and gerontology, Saint-Petersburg, Russia

**P49 • Frailty in Elderly- A Nutritional Evaluation**  
Majida Shaheen PhD1, Dr. Seema Puri PhD2 - (1) Ph.D. Scholar, Department of Home Science, Delhi University, India - (2) Associate Professor, Department of Nutrition, Delhi University, India

**P50 • Reliability of eight muscle strength measures obtained with a hand-held dynamometer in an elderly population**  
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**P51 • Prevalence of frailty in nursing home residents according to various diagnostic tools**  
Buckinx F1,2, Reginster J-Y1,2 & 3, Dardenne N2, Beaudart C1,2, Slomian J1,2, Gillain S4, Petermans J4, Ricour C4, Goffart E1, Bruyère O1,2 & 5 - 1 Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium - 2 Support Unit in Epidemiology and Biostatistics, University of Liège, Belgium - 3 Bone, Cartilage and Muscle Metabolism Unit, CHU Liège, Belgium - 4 Geriatric Department, CHU Liège, Belgium - 5 Department of Motricity Sciences, University of Liège, Belgium

**P52 • Correlation between muscle mass and muscle strength and their association with physical performance and gait speed**  
C. Beaudart, J.-Y. Reginster, J.-L. Croisier, J. Slomian, F. Buckinx, M. Locquet, A. Quabron, O. Bruyère

**P53 • Is there a specific pattern of lean / fat mass ratio in sarcopenic subjects?**  
C. Beaudart, J.-Y. Reginster, J.-L. Croisier, J. Slomian, F. Buckinx, M. Locquet, A. Quabron, O. Bruyère

**P54 • Health related Quality of Life in sarcopenia**  
C. Beaudart, J.-Y. Reginster, J. Slomian, F. Buckinx, M. Locquet, A. Quabron, O. Bruyère

**P55 • Muscle fatigue resistance and self-perceived fatigue in relation with sarcopenia and quality of life**  
C. Beaudart, J.Y. Reginster, I. Bautmans, J.-L. Croisier, J. Slomian, F. Buckinx, M. Locquet, A. Quabron, O. Bruyère

**P56 • Exploration of Trunk Muscle Composition and Select Physical Performance Measures: A Preliminary Analysis among Older Adults with and without Chronic Low Back Pain**  
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**P57 • The Independent Role of Inflammation in Physical Frailty Among Older Adults with Mild Cognitive Impairment and Mild-to-Moderate Alzheimer's Disease**  
Laura Tay, MBBS, MRCP(UK)1,2; Wee Shiong Lim, MBBS, MRCP(UK)1,2; Mark Chan, MBChBAO, MRCP(UK)1,2; Ruijing Ye, BSc2; Mei Sian Chong, MBBS, FRCP(Edin)1,2 - 1. Cognition and Memory Disorders Service. Department of Geriatric Medicine. Tan Tock Seng Hospital. Singapore - 2. Institute of Geriatrics and Active Ageing. Tan Tock Seng Hospital. Singapore

**P58 • Molecular Adaptation of Sarcoplasmic Reticulum to Functional Electrical Stimulation and Leg-Press Training in Aging**  
Simone Mosole, PhD1, Sandra Zampieri, PhD3-4-5, Barbara Ravara, PhD1, Sandra Furlan, T2, Hannah Fruhmman, PT3, Stefan Löffler, Eng3, Michael Vogelauer, MD3, Helmut Kern, MD3-4, Ugo Carraro, MD5, Pompeo Volpe, MD and **Alessandra Nori**, PhD1. (1) Laboratory of Pathophysiology of Striated Muscles Department of Biomedical Sciences, Padova Italy (2) C.N.R. Institute of Neuroscience, Padova, Italy (3) Ludwig Boltzmann Institute of Electrical Stimulation and Physical Rehabilitation, Vienna, Austria (4) Institute of Physical Medicine and Rehabilitation, Wilhelminenspital, Vienna, Austria - (5) Laboratory of Translation Myology, Department of Biomedical Sciences, Padova Italy

**P59 • Differences in frailty in older nursing home residents across european countries: results from the shelter project**  
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**P60 • Bone and muscle parameters in the prediction of hip fracture risk from the prospective European study of fractures of the femur (Cohort EFFECT): An in-vivo study**  
P Pottecher, A Muhlberg, O Museyko, V Bousson, K Engelke, JD Laredo

**P61 • Prevalence of sarcopenia in Parkinson's disease**  
Davide Liborio Vetrano1, Maria Stella Pisciotta1, Alice Laudisio2, Mauro Guglielmo1, Domenico La Carpi1, Vincenzo Brandi1, Beatrice Di Capua1, Diego Ricciardi1, Maria Rita Lo Monaco1, Graziano Onder1, Roberto Bernabei1, Giuseppe Zuccalà1. 1 - Department of Geriatrics, Orthopaedics and Neuroscience – Catholic University of Rome – Italy. 2 - Department of Geriatrics - Campus Bio-Medico University – Rome – Italy.

**P62 • Comparison among functionality, cognition and mood of elderly users from a public health service in the interior of São Paulo (Brazil)**  
Davide Aline Cristina Martins Gratao1, PhD3, Beatriz Rodrigues de Souza Melo2, MD1, Karolina Helena Neri3, S2, Maria Angélica Andreotti Diniz3, S2, Carolina Nunes Scherma3, S2, Leandro Correa Figueiredo4, PhD1, Vanderlei José Haas5, PhD3.

**P63 • Frailty in Japanese elder patients with chronic obstructive pulmonary disease: a two-year observation at outpatient clinic for comprehensive pulmonary rehabilitation**  
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**P64 • Variation in the prevalence of sarcopenia in Manizales, Colombia, according to 2 reference values of skeletal muscle mass index**  
Ana Milena Lopez-Salazar - MD - University of Caldas, Colombia David Ricardo Gonzalez-Gonzalez DR - MD - University of Caldas, Colombia **Clara Helena Gonzalez-Correa** CH - PhD - Group of Electrical Bioimpedance - University of Caldas, Colombia

**P65 • Comparative study between formal and informal caregivers of elderly users from the public health service in the interior of the State of São Paulo (Brazil)**  
Aline Cristina Martins Gratao1, PhD3, Maria Angélica Andreotti Diniz2, S2, Karolina Helena Neri2, S2, Carolina Nunes Scherma2, S2, Beatriz Rodrigues de Souza Melo3, MD1, Luana Flávia da Silva Talmelli-Ruy4, PhD2 (1) RN, Ph.D. in Sciences from University of São Paulo at Ribeirão Preto College of Nursing (EERP-USP). Adjunct Professor, Department of Gerontology, University Federal of São Carlos, São Carlos, SP, Brazil. (2) Undergraduate student in Gerontology at University Federal of São Carlos, São Carlos, SP, Brazil. (3) RN. Master's student, Graduate Nursing Program at University Federal of São Carlos, São Carlos, SP, Brazil. - (4) RN, Ph.D. in Sciences from University of São Paulo at Ribeirão Preto College of Nursing. Ribeirão Preto, SP, Brazil

**P66 • Estimation of total energy expenditure of patients with short bowel syndrome by a physical activity monitor: a comparison with the doubly labeled water method**  
Priscila Giacomo Fassini, MSc1, Eduardo Ferrioli, MD, PhD2, Fernanda Pinheiro Amador dos Santos Pessanha, PhD2, Karina Pfrimer, PhD2, Julio Sérgio Marchini, MD PhD1. (1) Division of Nutrition, Department of Internal Medicine, Ribeirão Preto Medical School, University of São Paulo, Brazil. (2) Division of Internal and Geriatric Medicine, Ribeirão Preto Medical School, University of São Paulo, Brazil.

**P67 • Functional disability in the elderly: a concept analysis**  
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**P68 • Total energy expenditure and physical activity in frail and non-frail older people: a study using doubly labeled water and activity monitoring.**  
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**P69 • Health profile of elderly and caregivers at a Long-Term Care Institution for the Elderly in the interior of the State of São Paulo (Brazil)**

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**P70 • Fragility in the elderly with chronic renal hemodialysis: application of Phenotype of Frailty Fried**

**Beatriz Rodrigues de Souza Melo**, MD1; Gabriela Dutra Gesualdo, MD1; Juliana Gomes Duarte, S2; Aline Cristina Martins Gratão, D3; Fabiana de Souza Orlandi, D3. (1) Graduate Program in Nursing, Federal University of São Carlos, São Paulo, Brazil (2) Undergraduate Student in Gerontology, Federal University of São Carlos, São Paulo, Brazil (3) Department of Gerontology, Federal University of São Carlos, São Paulo, Brazil

**P71 • An Algorithm of Medication Review in Residential Aged Care Facilities: Focus on Minimizing Use of High Risk Medications**

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**P72 • An anthropometric prediction equation for appendicular skeletal muscle mass in combination with a measure of muscle function to screen for sarcopenia in primary and aged care**

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**P73 • An ethnic-specific cut-point for sarcopenia for black South African women**

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**P74 • The association of fall history with hospitalization, skilled nursing facility stays, and nursing home placement in older, community dwelling women**

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**P75 • Prevalence of sarcopenia and its associations with frailty, comorbidities and functional capacity: Fibra Network Study in Belo Horizonte**

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**P76 • Association between frailty and functional capacity in community-dwelling elderly from Belo Horizonte, Barueri and Santa Cruz: Fibra Network Study**

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**P77 • Sarcopenia and oral health among a group of elderly people in Mexico City.**

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**P78 • Effects of synbiotic supplementation on systemic inflammation of elderly subjects.**

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**P79 • Sarcopenia in elderly inpatients: how to identify?**

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**P80 • Dynapenia and sarcopenia as a risk factor for disability in elderly**

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**P81 • Leg muscle quality and performance in diabetes induced sarcopenic physical frailty**

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**P82 • Leg muscle quality and performance in diabetes induced sarcopenic physical frailty**

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**P83 • Validation of a Frailty Index from the interRAI Acute Care Instrument**

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**P84 • Preliminary Findings on the Psychometric Properties of the Chinese Version Verbal and Non-verbal Interaction Scale (C-VNVIS)**

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**P85 • Risks and prevention of frailty in social health effects of aging**

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**P86 • Key inflammatory pathway genes are associated with frailty in the English Longitudinal Study of Ageing - A candidate gene association study**

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**P87 • Association of Physical Impairments with FNIH Sarcopenia definitions of Clinical Weakness: Data from the Health & Retirement Survey**

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**P88 • Measuring Frailty: A Comparison of Fried's Frailty Phenotype and Rockwood's Frailty Index using the English Longitudinal Study of Ageing**

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**P89 • Swallowing Function and Nutritional Status in Community-dwelling Elders and Inpatients of Old Age**

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**P90 • Hypertrophic responses to resistance exercise training are attenuated with ageing, despite subjects being well matched for baseline body composition and metabolic health indices**

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**P91 • Evaluation of a dietary intervention in middle age obese sarcopenic females**

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**P92 • Unit for Diagnosis and Prevention of Sarcopenia (UDPS) Preliminary Experience**

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**P93 • Phase Angle Measurement Using Bioelectrical Impedance Older Adults Who Dance Regularly Compared to Non-Dancers**

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**P94 • Perilipins and p53 expression during human muscle aging**

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**P95 • Malnutrition association with quality of life among people aged 60+ in sweden: results of the snac-b study**

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**P96 • Association between ACE Insertion/Deletion (I/D) polymorphism and frailty among Chinese older people**

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**P97 • Energy expenditure and physical activity in end-stage renal disease (ESRD): cross-sectional and longitudinal observations**

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**P98 • Enhanced expansion of mitochondrial DNA mutations in an in vitro model of HIV-associated skeletal muscle aging**

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**P99 • Handgrip strength and depression among the very old**

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**P100 • The effects of a natural myostatin inhibitor derived from fertilized egg yolk on serum myostatin level and lean muscle thickness and mass: a randomized, double-blind, placebo-controlled trial**

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**P101 • A possibility of heat stress as a countermeasure for age-associated decreased of muscle mass**

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**P102 • Effects of intermittent slow-jogging training on fitness and skeletal muscle mass in older Japanese: a randomized controlled trial**

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**P103 • Effects of synbiotic supplementation on systemic inflammation of elderly subjects.**

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**P104 • The transition of senior learning in South of Taiwan: The New-aged Era is coming**

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**P105 • Analysis of functional ability, aerobic capacity and level of physical activity between 'non sarcopenic' elderly and elderly 'at risk of sarcopenia'**

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**P106 • Sarcopenia and weight cycling in obese adults from Southern Italy**

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**P107 • Association between serum biomarkers and frailty level in older men and women with minor injuries. Preliminary results from the CETI project**

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**P108 • Older adults exhibit reduced stretch reflexes relative to young adults**

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**P109 • Copenhagen Sarcopenia Study - Is sarcopenia the next clinical target after osteoporosis?**

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**P110 • Myofibrillar protein synthesis is elevated for 2 days following acute resistance exercise and high-intensity interval exercise in older men**

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**P111 • Long term measurement tool and quantitative outcome assessment of elderly physical performance**

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**P112 • Identification of frail individuals in primary care settings: proposal of a new model**

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**P113 • Concordance between tools for the detection of community dwelling frail adults**

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**P114 • Tackling frailty at primary care settings: validation and comparison of three identification tools and use of health care services: study protocol**

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**P115 • Older Adults with Chronic Low Back Pain: A Clinical Population Vulnerable to Frailty?**

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**P116 • The Baystate Frailty Study – Prevalence of Frailty in a Cohort of Hospitalized Elderly Patients**

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**P117 • Change in Timed Up and Go performance over time in community-dwelling older men**

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**P118 • Interrelationship between recreational physical activity, relative muscle strength and functional capacity**

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**P119 • Using frailty to assess premature biological ageing in opiate-dependent adults.**

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**P120 • Prediction of one-repetition maximum from submaximal ratings of perceived exertion in older adults pre and post-training**

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**P121 • Large heterogeneity in the response to resistance-type exercise training in elderly people**

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**P122 • Age-related changes of thigh muscle fat infiltration in subjects of the OAI MRI cohort without non-radiographic osteoarthritis**

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**P123 • Change in intramuscular adipose tissue in postmenopausal women with type 2 diabetes compared to women without diabetes.**

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**P124 • Iron deficiency deteriorates clinical and functional outcome in patients with acute ischemic stroke**

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**P125 • Enhancement of Satellite Cell Regenerative Potential in Sarcopenic Rats by Polyphenol-Enriched Plum Extract**

**Min Tian**, PhD1, William Kline, PhD2, Neile K. Edens, PhD1, Denis C. Guttridge, PhD 2, Suzette L. Pereira, PhD1 (1) Abbott Nutrition, Columbus, OH 43219, USA (2) Center for Regenerative Medicine and Cell-Based Therapies, The Ohio State University, Columbus, OH 43210, USA

**P126 • Nutritional status among persons with dementia. An analysis of Swedish quality registries.**

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**P127 • The influence of a 4-month resistance training on muscle cells of sarcopenic obese patients.**

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**P128 • Effect of recreational physical activity on objective measures of functional profile and perceived health status in elderly with or without MCI**

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**P129 • Assessment of Postural Control Complexity in the Frailty Syndrome before and after the execution of a functional task**

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**P130 • Energy expenditure of people living with HIV/AIDS assessed by the doubly labeled water method and by an accelerometry-based activity monitoring system**

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**P131 • Investigation of the effects of aging on skeletal muscle phenotype in men**

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**P132 • Frailty and cognitive function among the community-dwelling elderly**

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**P133 • Quality of life and frailty in elderly people living in communities**

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**P134 • Trauma by traffic accident in elderly people: risk factors and consequences**

Ana Maria Ribeiro dos Santos , RN, PhD1; Rosalina Rosalina Aparecida Partezani Rodrigues, RN, PhD2, Jack Roberto Silva Fhon, RN, MSN2, Marina Aleixo Diniz, RN, MSN2, Suzele Cristina Coelho Fabricio-Wehbe, RN, PhD2. 1 University of Piauí, College of Nursing, Brasil (2) University of São Paulo at Ribeirão Preto, College of Nursing, Brasil

**P135 • Characteristic depressive symptoms of the conditions of frailty in elderly brazilians: data FIBRA - polo UNICAMP**

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**P136 • Prevalence of sarcopenia in the elderly from different countries: an integrative review**

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**P137 • High-Intensity Physical Therapy Improves Functional Outcomes in Older Adults Following Acute Hospitalization**

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**P138 • A 12-week aerobic exercise program increased the volume of femoral muscle with metabolic syndrome Japanese: a randomized controlled trial.**

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**P139 • Correlation between functionality and frailty in elderly of a program of prevention of falls in primary care**

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**P140 • Frailty, quality of life and nutritional status of elderly HD patients: a cross-sectional study**

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**P141 • Evaluation of inflammatory markers and autonomic nervous system modulation in frail elderly**

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**P142 • Prevalence of sarcopenia and muscle wasting in Mexicans.**

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**P143 • Influence of the initial amount of protein intake on muscle adaptation in response to a resistance training program in elderly men**

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**P144 • Sarcopenia and functionality in Older adults hospitalised at Emergency Department**

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**P145 • Influence of protein intake distribution on skeletal muscle adaptation in response to resistance training in elderly men aged over 70 yrs.**

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**P146 • Frailty in Family Practice**

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**P147 • Frail Scale and Health Outcomes in the Baltimore Longitudinal Study of Aging (BLSA)**

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**P148 • Prevalence of sarcopenia in community dwelling Chilean older people**

Lydia Lera, Cecilia Albala, Hugo Sánchez, Bárbara Ángel, María José Hormazabal, Florencia Insunza - INTA, University of Chile, Santiago de Chile

**P149 • Calf circumference vs. muscle mass skeletal index by bioelectrical impedance analysis for diagnosing sarcopenia in Colombian males and females.**

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**P150 • Quality of life and nutritional status in moderate alzheimer s disease patients**

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**P151 • Gender Difference in the Association between Physical Activity and Quality of Life among the Elder Population: A Cross Sectional Study of Taiwanese Preventive Service Utilizers**

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**P152 • Physical Capability is Associated with Objectively Measured Moderate-to-Vigorous Physical Activity but not Sedentary Time**

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**P153 • Changes in anthropometry and body composition in older, obese adults on different diets**

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**P154 • Associations between dietary intakes of protein and essential amino acids with skeletal muscle mass, grip strength and circulating C-reactive protein in women aged 18-79 years**

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**P155 • Prevalence and Predictors of Potentially Inappropriate Medications in Frail Elderly**

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**P156 • Frailty clinical phenotype: a physical and cognitive point of view**

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**P157 • Clinical components linked to sarcopenia: the SarcoPhAge study**

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**P158 • Baroreflex sensitivity in Frailty**

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**P159 • The profiles of lipid and apolipoprotein in robust, physical frailty, physical frailty with MCI in older Han Chinese male adults**

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**P160 • Cross-sectional and longitudinal associations between anaemia and frailty in older Australian men: The Concord Health and Ageing in Men Project**

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**P161 • Reduced muscle mass or muscle weakness: exploring sarcopenia definitions and associations with functional and health-related outcomes in older people**

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**P162 • Impact of preoperative weight loss, abnormal serum-albumin and body composition on overall survival after major upper abdominal surgery**

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**P163 • Are there subtypes of (intermediate)frailty? A latent variable analysis of a health deficit index**

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**P164 • Sarcopenic obesity is associated with frailty in treatment controlled HIV patients**

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**P165 • Cognitive and Mobility Decline Concur in Seniors and Predict Pre-Frail Status. Results from the "Gait & Brain Study"**

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**P166 • Prevention of Sarcopenia in Stroke: interventional concepts from experimental to clinical trials.**

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**P167 • Structural and social factors as predictors of frailty in a national sample of older Mexican adults**

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**P168 • The effect of frailty index form routine laboratory data on mortality in an oldest old Chinese community sample**

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**P169 • Frailty Research in India**

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**P170 • Peripheral nerve sensation at the great toe is related to foot reaction time in mobility-limited older adults.**

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**P171 • The effects of fasting and exercise on muscle protein metabolism**

(IGF1-Akt-mTOR-FoxO signalling pathway) in very old mice - Zoe Soffe<sup>1</sup>, Tea Shavlakadze<sup>1</sup>, Miranda Grounds<sup>1</sup> - 1 School of Anatomy, Physiology and Human Biology, the University of Western Australia, Perth, WA, Australia.

**P172 • Age-related attenuated hypertrophic responses to resistance exercise training are associated with chronic deficits in muscle protein synthesis and anabolic hormones**

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**P173 • The Geometric Framework Technique to Assess the Relationships Between Nutrition and Frailty in a Sample of Australian Men**

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**P174 • Body composition and neutrophil to lymphocyte ratio in colorectal cancer patients.**

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**P175 • Do the Frailty Index and Late Life Function & Disability Instrument enhance the frailty assessment compared to the national assessment standards used on transcatheter aortic valve patients?**

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**P176 • Identification of serum sirtuins as novel non-invasive protein markers for frailty**

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**P177 • Classification of exercise study participants based on EWGSOP criteria for sarcopenia and sarcopenic obesity.**

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**P178 • Dynamic proteomic responses to skeletal muscle inflammation and repair in mice and man**

Mahalakshmi Shankaran<sup>1</sup>, Chelsea King<sup>1</sup>, Po-yin Anne Wong<sup>1</sup>, Scott Turner<sup>1</sup>, Marc Hellerstein<sup>1</sup>, Joanne Mallinson<sup>2</sup>, Paul Greenhaff<sup>2</sup>, Todd W. Shearer<sup>3</sup>, Stephen A. Stimpson<sup>3</sup>, Fritz Kramer<sup>3</sup>, Andrew Billin<sup>3</sup>, Alan Russell<sup>3</sup>, Richard Clark<sup>3</sup>, William J. Evans<sup>3</sup> - 1KinMed, Inc., Emeryville, CA 94608, USA - 2The University of Nottingham Medical School, Queen's Medical Centre, Nottingham NG7 2UH, UK - 3Muscle Metabolism Discovery Performance Unit, GlaxoSmithKline, Research Triangle Park, NC 27709 (USA)

**P179 • Dynapenia with Obesity and Risk of Functional Impairment: Data from the longitudinal Osteoarthritis Initiative**

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**P180 • iNOS-dependent inhibitory S-nitrosylation of the CXXC motifs in SIRT1 function as a pro-inflammatory switch leading to sustained activation of p53 and p65 NF-κB in age-related muscle wasting.**

Shohei Shinozaki, PhD1,2, Akihito Ishigami, PhD3, Konrad Ben<sup>1, 4</sup>, Marlene E. Starr, PhD4, Hiroshi Saito, PhD5, Hideki Ito, MD, PhD3, Kentaro Shimokado, MD, PhD6, Masao Kaneki, MD, PhD1 - (1) Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Shriners Hospitals for Children, Harvard Medical School, Charlestown, MA, USA. (2) Department of Arteriosclerosis and Vascular Biology, Tokyo Medical and Dental University Graduate School. (3) Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan. (4) Vassar College, Poughkeepsie, NY, USA (5) Department of Surgery, University of Kentucky College of Medicine, Lexington, KY, USA. (6) Department of Geriatrics and Vascular Medicine, Tokyo Medical and Dental University Graduate School, Tokyo, Japan.

**P181 • Transition in Frailty Status and Associated Factors in Community-dwelling Chinese: the Beijing Longitudinal Study on Aging II (BLSAII)**

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**P182 • Prevalence of sarcopenia among community-dwelling elderly of a medium-sized South American city: results of the COMO VAI?**

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**P183 • Comfortable and maximal gait speed: reference values of Chinese seniors living in community and relevant factors**

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**P184 • Health Status of Elderly Population of Eastern Rajasthan**

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**P185 • Neuroprotective efficacy of Withania Somenifera in aging brain of stressed mice**

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**P186 • Low urinary creatinine excretion is a reflection of physical frailty in patients with advanced chronic kidney disease**

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**P187 • Is there association between muscle strength and body composition parameters in elderly patients on hemodialysis?**

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**P188 • Validating a modified frailty index for use in a medicine use study**

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**P189 • A Review of Frailty in Developing Countries**

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**P190 • Response to Antiplatelet Drugs in Frail and Non-frail Older Inpatients with Atrial Fibrillation**

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**P191 • Coagulation Changes In Frail And Non-frail Older Inpatients With Atrial Fibrillation**

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**P192 • The association of gait speed with endothelial dysfunction as measured by reactive hyperemia index**

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**P193 • Prevalence of the syndrome of the frailty in hospitalized elderly patients: data from a reference health center in southern Brazil.**

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**P194 • Prevalence of hypo-albuminemia and associated factors in elderly hospitalized**

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**P195 • Relationship between reduction of muscle mass and adverse outcomes after cardiac surgery**

**Patrícia De Carli Toniai**, Msc<sup>1</sup>, Débora D'Agostini Jorge Lisboa, Msc<sup>1</sup>, Jaqueline Sturmer, Msc<sup>1</sup>, Luiz Antonio Bettinelli, PhD<sup>1</sup>, Eliane Lucia Colussi, PhD<sup>1</sup>. - (1) Postgraduate Program in Human Aging, University of Passo Fundo, Passo Fundo, Brazil.

**P196 • The prediction of fall risks using body composition and physical performance in hospitalized adults.**

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**P197 • Gait speed. Cutoffs in elderly Mexican population.**

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**P198 • Change in Physical Performance Measures Following Kidney Transplant**

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**P199 • Can L-Arginine improve skeletal weakness and force in DMD?**

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**P200 • Interventions for the treatment of sarcopenia in the elderly: an integrative literature review**

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**P201 • Effects of ageing on neuromuscular junction and muscle function**

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**P202 • Longitudinal performance assessment for predicting adverse outcomes: The added value to single time point Timed Up and Go assessment**

**Stefanie De Buyser**, PharmD<sup>1</sup>, Mirko Petrovic, MD, PhD<sup>1</sup>, Youri Taes, MD, PhD<sup>2</sup>, Bruno Lapauw, MD, PhD<sup>2</sup>, Kaatje Toye, BSc<sup>2</sup>, Jean-Marc Kaufman, MD, PhD<sup>2</sup>, Stefan Goemaere, MD, PhD<sup>2</sup> (1) Department of Geriatrics, Ghent University Hospital, Ghent, Belgium (2) Department of Endocrinology and Unit for Osteoporosis and Metabolic Bone Diseases, Ghent University Hospital, Ghent, Belgium.

**P203 • Assessment and definition of lean body mass deficiency in ukrainian women**

**Vladyslav Povorozyuk**, Natalia Dzeroych, D.F. Chebotarev Institute of gerontology NAMS Ukraine, Kyiv, Ukraine

**P204 • Body composition and bone mineral density, spinal micro-architecture (tbs data) in the older ukrainian women with vertebral fragility fractures**

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**P205 • Frailty Predicts Cause-Specific Hospitalization among Persons Aging with HIV Infection and Drug Use**

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**P206 • About frailty and disability: where to draw the line between the two?**

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**P207 • Fruits and vegetables intake and physical activity as predictors of disability risk factors in african-american health study.**

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**P208 • The effects of fasting and exercise on muscle protein metabolism- (IGF1-Akt-mTOR-FoxO signalling pathway) in very old mice**

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**P209 • Prevalence of sarcopenia and its association with disability in Mexico's rural settings**

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**P210 • Utility of the mid-thigh cross-sectional muscle area on CT in diagnosing sarcopenia — Analyses of the association with skeletal muscle volume measured by DXA**

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**P211 • Sarcopenic obesity is associated with frailty and mortality in community dwelling older Men: The Concord Health and Ageing in Men Project**

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