

8:00/8:30am **Welcome by the Organizing Committee**
Roger Fielding (Boston, USA), Jack Guralnik (Philadelphia, USA), Matteo Cesari, Bruno Vellas, (Toulouse - France)

8:30/9:00am **KEYNOTE 1: EPIDEMIOLOGY OF SARCOPENIA: DETERMINANTS THROUGHOUT THE LIFECOURSE**
Cyrus Cooper *University of Oxford - (UK)*

9:00/10:00am **SYMPOSIUM 1: WHAT WE HAVE LEARNED FROM LARGE CLINICAL TRIAL ON FRAILTY AND SARCOPENIA**
Chairmen: Roger Fielding Tufts University (Boston - USA), Shalender Bhasin (Boston - USA), Bruno Vellas, G erontop le (Toulouse, France)
• What we have learned from testosterone trials?
Shalender Bhasin *Harvard Medical School - Boston - (USA)*
• Lessons learned from sarcopenia drug trials:
Roger Fielding *Tufts University - Boston - (USA)*
• MAPT Trial: Mobility and cognitive endpoint:
Bruno Vellas *G erontop le - Toulouse - (France)*

10:00/10:30am **ORAL COMMUNICATIONS:**
 10:00am **OC1: Changes in Body Composition relative to Physical Activity Changes in Older Men: The MrOS study**
Deepika Laddu *PhD (1), 1Stanford Prevention Research Center, Department of Medicine, Stanford University, Stanford, CA Peggy Cawthon, PhD (2), Neeta Parimi (2), Andrew Hoffman, MD (3), Eric Orwoll, MD (4), Iva Miljkovic, MD, PhD (5), Tien L Dam, MD (6), MarciaStefanick, PhD (1) - (2) San Francisco Coordinating Center, California Pacific Medical Center Research Institute, San Francisco, CA - (3) Department of Medicine, Stanford University, Stanford, CA - (4) Department of Medicine, Oregon Health & Sciences University,Portland, OR - (5) Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA - (6) Department of Medicine, Columbia University, New York, NY, (USA)*
 10:15am **OC2: Psoas Muscle Area and Muscle Fat Infiltration Before and After Antiretroviral Therapy Initiation in HIV Infection**
Fadzai Masawi (1), *MS. Suzanne Fiorillo, MSPH (1). Jordan E. Lake, MD, MSc (2). , Grace A. McComsey, MD (3), Todd T Brown, MD, PhD (4), Ann Scherzinger, PhD (1) - (1), Kristine M. Erlandson, MD, MSc (1) - (1) University of Colorado-Anschutz Medical Center; Aurora, CO (2) University of California, Los Angeles, CA (3) Case Western University; Cleveland, OH (4) Johns Hopkins University; Baltimore, MD, (USA)*

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

11:00/12:00am **SYMPOSIUM 2: MUSCLE QUALITY IN SKELETAL MUSCLE FUNCTION DEFICIT AND OTHER AGINGRELATED MUSCLE DYSFUNCTIONS: THE NEED FOR STANDARDIZED ASSESSMENT**
Chairman: Anne B. Newman, MD, MPH, Center for Aging and Population Health, Graduate School of Public Health, University of Pittsburgh, Pennsylvania, ((USA)
• Framing the Issue: What Defines Muscle Quality? Metabolic Capacity and Impact on Muscle Quality.
Todd Mannini, *PhD, Institute on Aging, University of Florida College of Medicine, Gainesville, Florida, (USA)*
• The Use of Standard Imaging Measures of Muscle Quality: Effects of Myosteatosis on Muscle Performance and Metabolic Status. Determinants of Muscle
Iva Miljkovic, *MD, PhD, Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania, (USA)*
• Alternative Clinical Imaging Measures of Muscle Quality: Impact of Muscle Quality on Functional Performance and Sarcopenia Staging.
Michael O. Harris-Love, *DSc, MPT, VA Medical Center and The Milken Institute School of Public Health, George Washington University, (USA)*

12:00/12:30pm **KEYNOTE 2: "A MONOCLONAL ANTIBODY FOR TREATMENT OF MUSCLE WASTING"**
Ronenn Roubenoff, *Novartis Institutes for Biomedical Research, Cambridge, MA, USA and Basel, (Switzerland)*

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

PARALLEL SESSIONS • BALLROOM 1

1:30/2:30pm **ORAL COMMUNICATIONS**
 1:30pm **OC3: Blood Based Bioenergetic Profiling Reports on Muscle Mitochondrial Function and is Associated with Multiple Measures of Physical Ability**
*Daniel J. Tyrrell (1), Manish Bharadwaj, PhD (1), Thomas C. Register, PhD (2), **Anthony J.A. Molina**, PhD (1) - (1) Sticht Center on Aging and Department of Internal Medicine, Section on Gerontology and Geriatrics, Wake Forest School of Medicine, Winston-Salem, North Carolina (2) Center for Comparative Medicine Research, Wake Forest School of Medicine, Winston-Salem, North Carolina (USA)*
 1:45pm **OC4: Low lean mass exaggerates the hemodynamic responses to muscle metaboreflex activation in postmenopausal women**
Arturo Figueroa, *MD, PhD Department of Nutrition, Food and Exercise Sciences, Florida State University, USA. Salvador J. Jaime, MS (1) Sarah A. Johnson, PhD (2) Stacey Alvarez-Alvarado, MS (1) Jeremiah C. Campbell, MS(1) Rafaela G. Feresin, PhD (3) Marcus L. Elam, PhD (4) Bahram H. Arjmandi, PhD (1) - (2) Department of Food Science and Human Nutrition, Colorado State University, Fort Collins, USA - (3) Department of Dietetics and Nutrition, University of Arkansas for Medical Sciences, Little Rock, USA - (4) Department of Human Nutrition and Food Science, California State Polytechnic University, Pomona, (USA)*
 2:00pm **OC5: Self-reported difficulty with physical function is a significant predictor of future declines in cognitive function**
Masato Nakazawa, *PhD (1,2,3) Arimi Fitri, PhD(1) Julie Suhr, PhD (1,4) and Brian C. Clark, PhD (1,2,5) - (1) Ohio Musculoskeletal & Neurological Institute (OMNI), Ohio University, Athens, OH, USA - (2) Department of Biomedical Sciences, Ohio University, Athens, OH, USA - (3) Office of Research and Grants Biostatistics Division, Heritage College of Medicine, Ohio University, Athens, OH, USA - (4) Department of Psychology, Ohio University, Athens, OH, USA - (5) Department of Geriatric Medicine, Ohio University, Athens, OH, (USA)*

2:15pm

OC6: Clinically relevant weakness among older adults in 5 different contexts from the International Mobility in Aging Study.

Juliana Fernandes de Souza Barbosa, PhD Student (1), Mario Ulises Perez Zepeda, MD (2), François Béland, PhD (3), Jack M. Guralnik, MD, PhD(4), Maria Victoria Zunzunegui, PhD (5), Ricardo Oliveira Guerra, PhD (6) (1) PhD Student, The International Mobility in Aging Study, Department of Physiotherapy, Universidade Federal Rio Grande do Norte, Natal, Brazil (2) Instituto Nacional de Geriatria, Mexico City, Distrito Federal, Mexico, - (3) Department of Health Administration, Université de Montréal, Montréal, Quebec, Canada, - (4) Department of Epidemiology and Public Health, division of Gerontology, University of Maryland School of Medicine, Baltimore, Maryland, - (5) Centre de recherche du Centre Hospitalière de l'Université de Montréal, Montréal, Canada, - (6) Department of Physiotherapy, Universidade Federal Rio Grande do Norte, Natal, (Brazil)

2 :30/3 :30pm

SYMPOSIUM 3: A Mouse Model of Chronic Inflammation, Sarcopenia and Phenotypic Frailty

Chairman: **Jeremy D. Walston**, MD, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, Maryland (USA)

• Age- and Inflammation-related Alterations in the Renin Angiotensin System Mediate Pathological Changes in Cardiomyocytes

Peter Abadir MD, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, Maryland, (USA)

• Skeletal Muscle Declines in the IL-10 KO Mouse

Tyesha N. Burks, PhD, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, Maryland, (USA)

• The Metabolic Characterization of the Interleukin-10tm1Cgn Mouse

Reyhan Westbrook, PhD1, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, (USA)

3:30/4:00pm

COFFEE BREAK AND POSTERS

4:00/4:30pm

KEYNOTE 3: "SKELETAL MUSCLE FAT INFILTRATION WITH AGING: SHIFTING THE SARCOPENIA PARADIGM"

Brett Goodpaster, Florida Hospital, Sanford Burnham Medical Research Institute, Orlando, FL, (USA)

4 :30/5 :30pm

SYMPOSIUM 4: Physical Frailty and Sarcopenia: Magnitude of the problem and possible solutions

Chairmen: **Francesco Landi**, Department of Geriatrics, Neurosciences and Orthopedics – Catholic University of the Sacred Heart, Rome, (Italy), **Matteo Cesari**, Geronopôle de Toulouse. INSERM 1027. Toulouse University Hospital, (France)

• Prevalence of Sarcopenia in frail older adults - Results from the Frailty Day Hospital

Gabor Abellan van Kan, MD2 (2) Geronopôle de Toulouse. INSERM 1027. Toulouse University Hospital, **Matteo Cesari**, MD, PhD (2), **Sandrine Sourdret**, MD (2), **Bruno Vellas**, MD, PhD (2) - (2) Geronopôle de Toulouse. INSERM 1027. Toulouse University Hospital, (France)

• Physical activity to contrast physical frailty and sarcopenia

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

• Role of nutrition in physical frailty and sarcopenia

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

• SPRINTT clinical trial deployment

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

5 :30/6 :00pm

LATE BREAKING NEWS

PARALLEL SESSIONS • BALLROOM 2

1:30/2:30pm

SYMPOSIUM 5: Models of Care For Frail Older People In The Community

Chairman: **Renuka Visvanathan**, PhD, Director, Adelaide Geriatrics Training and Research with Aged Care (GTRAC) Centre and Lead, Centre of Research Excellence: Frailty Trans-disciplinary Research To Achieve Healthy Ageing, University of Adelaide, (South Australia)

• Frailty levels in residential aged care facilities measured with the Frailty Index and FRAIL-NH Scale

Olga Theou PhD Geriatric Medicine, Dalhousie University and Nova Scotia Health Authority, Halifax, Nova Scotia, Canada & Centre of Research Excellence: Frailty Trans- disciplinary Research To Achieve Healthy Aging, University of Adelaide, (South Australia)

• Approaches to frailty treatment in frail and pre-frail community living older people

Susan Kurrle PhD Curran Chair in Health Care for Older People. Sydney Medical School Northern, University of Sydney, Sydney, New South Wales, Australia

• Towards a Patient Centred Virtual Orthogeriatric Liaison Service - lessons from a hip fracture outcomes study

Mellick Chehade, PhD Orthopaedic and Trauma Surgeon, Discipline of Orthopaedics and Trauma, The University of Adelaide, Adelaide, Australia & Centre of Research Excellence: Frailty Trans-disciplinary Research To Achieve Healthy Aging, University of Adelaide, (South Australia)

2:30/3:30pm 2:30pm 2:45pm 3:00pm 3:15pm	<p>ORAL COMMUNICATIONS</p> <p>OC7: Efficiency of oral supplementation for malnourished nursing home residents: Results of the PRESAGE study Y Rolland, D Seguy, C Bonhomme, G Abellan, S Walrand, Y Boirie, B Vellas Toulouse, (France)</p> <p>OC8: Characterization of the Lean-Fat Mass Associations in Age, Sex, and Racial Groups and the Development of Fat-adjusted Measures of Low Lean Mass and Sarcopenia Joshua F. Baker (1,2,3) (1)Philadelphia Veterans Affairs Medical Center, Philadelphia, (2) University of Pennsylvania, School of Medicine, Philadelphia, (3) Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, David Weber, (4) Jin Long6 - Mary B. Leonard (6) - Babette Zemel (7) - Joshua F. Baker (1,2,3,4) Division of Endocrinology and Diabetes, Golisano Children's Hospital, University of Rochester, Rochester, (5) Children's Hospital of Philadelphia, Philadelphia, US (6) Department of Pediatrics and Medicine, Stanford University, Stanford, (USA)</p> <p>OC9: The validity and reliability of a hand-held ultrasound device to measure muscle size W. Nijholt, MSc, Research Group Healthy Ageing, Allied Health Care and Nursing, Hanze University of Applied Sciences, Groningen, Netherlands - H Jager-Wittenaar, PhD, RD (1,2) E.V.A. Gorter BSc (1), J.S.M. Hobbelen PhD PT (1), C.P. van der Schans, PhD PT (1,3) - (1) Research Group Healthy Ageing, Allied Health Care and Nursing, Hanze University of Applied Sciences, Groningen, The Netherlands (2) Department of Oral and Maxillofacial Surgery, University of Groningen, University Medical Center Groningen, Groningen, The Netherlands (3) Department of Rehabilitation Medicine, University of Groningen, University Medical Center Groningen, Groningen, (The Netherlands)</p> <p>OC10: Poor satellite cells impair muscle regeneration during osteoporosis and sarcopenia Eleonora Piccirilli MD1, Jacopo Baldi MD (1), Manuel Scimeca PhD (2), Elena Bonanno MD PhD (2), Elena Gasbarra MD (1) and Umberto Tarantino MD (1) Department of Orthopaedics and Traumatology, University of Rome Tor Vergata, Policlinico Tor Vergata Foundation, Viale Oxford 81 00133 Rome (Italy) (2) Department of Pathological Anatomy, University of Rome Tor Vergata, Policlinico Tor Vergata Foundation, Viale Oxford 81 00133 Rome (Italy)</p>
3:30/4:00pm	<p>COFFEE BREAK AND POSTERS</p>
4 :00/5 :00pm	<p>SYMPOSIUM 6: Kinetic and Static Biomarkers for changing skeletal muscle mass and function: Stable isotope research comes of age Chairman: William Evans, KineMed and Division of Geriatrics, Duke University (USA)</p> <ul style="list-style-type: none"> • Stable Isotope research comes of age: 2H2O labeling and kinetic biomarkers as predictors of effects of disease and treatment Marc Hellerstein, KineMed and Department of Nutrition, University of California, Berkeley (USA) • Rate of Muscle Protein Synthesis as a Biomarker for Muscle Wasting and Anabolic Response William Evans, KineMed and Division of Geriatrics, Duke University (USA) • Creatine Dilution for the measurement of muscle mass in old men: Association with functional status in the MrOs trial Peggy Cawthon, Research Institute, California Pacific Medical Center (USA)
5:00/5:30pm 5:00pm 5:15pm	<p>ORAL COMMUNICATIONS</p> <p>OC11: Impact of a structured physical activity program and nutritional supplementation on regional body composition: results from the Vitality, Independence, and Vigor in the Elderly 2 Study (VIVE2) Roger A. Fielding (1)Dylan R. Kim (1), Afsaneh Koochek (2), Kieran F. Reid (1), Jonathan C. Laussen (1), Thomas Gustafsson (3), Tommy Cederholm (2) (1) Nutrition, Exercise Physiology, and Sarcopenia Laboratory, Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, Boston, Massachusetts. (2) Clinical Nutrition and Metabolism, Department of Public Health and Caring Sciences, Uppsala University, Uppsala, Sweden. (3) Department of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden</p> <p>OC12: Roles of exercise-induced gene, SPARC, against sarcopenia: link between extracellular matrix and mitochondria Melouane Aicha , Carbonell Antoine, Yoshioka Mayumi, Kanzaki Makoto, Pymirat Jack, and St-Amand Jonny. Functional Genomics Laboratory, CREMOGH, CHU de Québec Research Center, Molecular Medicine Department, Laval University Québec city, Canada, Unit of Human Genetics, CHU de Québec Research Center, Medicine Department, Laval University, Quebec, Canada and Department of Biomedical Engineering Graduate School of Biomedical Engineering Tohoku University, Japan.</p>
5:30/6:00pm	<p>LATE BREAKING NEWS</p>

PARALLEL SESSIONS • BALLROOM 1

- 8:00/9:00am **ORAL COMMUNICATIONS**
- 8:00am **OC13: Sarcopenia obesity (SO) represents an extreme clinical phenotype in well community-dwelling older adults with short-term functional consequences**
Chong MS FRCP (1,2) (1) Department of Geriatric medicine, Tan Tock Seng Hospital, Singapore - (2) Institut of Geriatrics and Active Ageing, Tan Tock Seng Hospital, (Singapore)
- 8:15am **OC14: High Intensity Interval Training (HIIT) increases muscle mass, improves physical performance, and reduces frailty in aged mice**
Kenneth L. Seldeen, PhD, Division of Geriatrics and Palliative Medicine, Department of Medicine, University at Buffalo, & Research Service, Veteran Affairs Western New York Healthcare System, Buffalo, NY - Merced Leiker, MS & Bruce R. Troen, MD Division of Geriatrics and Palliative Medicine, Department of Medicine, University at Buffalo, & Research Service, Veteran Affairs Western New York Healthcare System, Buffalo, NY, (USA)
- 8:30am **OC15: Influenza vaccine response in community-dwelling German prefrail/frail older persons**
Jürgen Bauer, MD, PhD (1) Rebecca Diekmann, PhD (1) Celine Romagny (2) Antonio De Castro (2) Sonja Nodland, PhD (3) Jalil Benyacoub, PhD (2)
Karine Vidal, PhD2 - (1) Department of Geriatric Medicine, Carl von Ossietzky University Oldenburg, Germany (2) Nestlé Research Center, Lausanne, Switzerland (3) Biothera Health Inc, a subsidiary of Kerry Group PLC, Eagan, MN, (USA)
- 8:45am **OC16: Outpatient Comprehensive Geriatric Assessment - Effects on frailty in community dwelling elderly people with multimorbidity - an RCT.**
Amelie Lindh Mazya MDPhD student (1,2) - (1)Department of Neurobiology, Care sciences and Society, Karolinska Institutet, Stockholm, Sweden(2)Geriatric Department of Danderyd Hospital, Stockholm, Sweden - Anne Ekdahl, MD PhD (1,3) Peter Garvin PhD MHP (4), Mitra Unosson RN PhD (5) - (3)Department of research and education, Helsingborg hospital, Region Skåne, Sweden (4) Unit of Research and Development in Local Health Care, Region of Östergötland, Linköping, Sweden (5)Department of Social and Welfare Studies, Linköping University, (Sweden)
- 9:00/10:00am **SYMPOSIUM 7: Muscle Indices Underlying Functional Decline in Aging Populations**
Chairman: Brock Beamer, MD, Division of Gerontology and Geriatric Medicine, Baltimore VAMC GRECC and Department of Medicine, University of Maryland School of Medicine, Baltimore, MD, (USA)
- **Conditions of muscle disease related disablement**
Alice S. Ryan PhD, VA Research Service, Division of Gerontology and Geriatric Medicine, Department of Medicine, University of Maryland School of Medicine, Baltimore VAMC GRECC Baltimore, MD, (USA)
 - **Specificity of muscle changes and risk of falls**
Odessa Addison, DPT, PhD, VA Research Service, Division of Gerontology and Geriatric Medicine, Department of Medicine, University of Maryland School of Medicine, Baltimore VAMC GRECC Baltimore, MD, (USA)
 - **Translating science into rehabilitation interventions**
Mario Inacio, Department of Physical Therapy and Rehabilitation Science, University of Maryland School of Medicine, Baltimore, MD, (USA)
- 10:00/10:30am **KEYNOTE 4: EMA GUIDANCE ON BASELINE FRAILTY CHARACTERIZATION OF CLINICAL TRIALS POPULATIONS FOR DRUG REGISTRATION"**
Francesca Cerreta, European Medicines Agency (Italy)
- 10:30/11 :00am **COFFEE BREAK AND POSTERS**
- 11:00/12:00am **ORAL COMMUNICATIONS:**
- 11:00am **OC17: Results of geriatric cardiac surgery co-management of frail older patients with valvular heart disease**
Elena Ortolani, MD (1) - (1) Department of Geriatrics, Neurosciences and Orthopaedics, Teaching Hospital "Agostino Gemelli", Catholic University of the Sacred, Rome, Italy - Natalia Pavone, MD (2), Sara Forcina, BSc (2), Massimo Massetti, MD (2), Roberto Bernabei, MD (1), Emanuele Marzetti, MD, PhD (1)(1) Department of Geriatrics, Neurosciences and Orthopaedics, Teaching Hospital "Agostino Gemelli", Catholic University of the Sacred, Rome, Italy(2) Department of Cardiovascular Sciences, Catholic University of the Sacred Heart, Rome, (Italy)
- 11:15am **OC18: The Physical Frailty Phenotype in Adults of All Ages with End Stage Renal Disease (ESRD)**
Mara A. McAdams-DeMarco (1,2) Hao Ying ScM (1), Israel Olorundare MPH (1) Elizabeth King MD (1), Brian Buta MHS (4), Alden Gross PhD (2), Karen Banteen-Roche PhD (3) Jeremy Walston MD (4), Dorry L. Segev MD PhD (1,2) - (1) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD.(2) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD (3) Department of Biostatistics, Johns Hopkins School of Public Health, Baltimore, MD (4) Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine, Baltimore, (USA)
- 11:30am **OC19: How is frailty identified and managed in emergency and acute care? A scoping review of evidence and policy**
Olga Theou (1) Kayla Mallery (1), Judah Goldstein (2), Joshua Armstrong (1), Jennifer Greene (2), Beverley Douglas (1), Breagh Devereaux (1), Jacques Lee (3), Kenneth Rockwood (1) - (1)Geriatric Medicine, Dalhousie University and Nova Scotia Health Authority, Halifax, Nova Scotia, Canada (2)Emergency Health Services Nova Scotia, Halifax, Nova Scotia, Canada(3) Sunnybrook Research Institute, Toronto, Ontario, (Canada)
- 11:45am **OC20: Dietary Supplements Marketed with Label Statements on Aging, Sarcopenia and Frailty in the NIH's Dietary Supplement Label Database (DSLDB)**
Johanna T Dwyer, Office of Dietary Supplements, National Institutes of Health, Bethesda, MD, USA - Richard Bailen MBA, MHA Office of Dietary Supplements, National Institutes of Health, Bethesda, MD, (USA)

12:00/12:30am **KEYNOTE 5: "WHAT ABOUT FAT? FRAILTY AND SARCOPENIA IN THE OBESITY ERA"**
Stephen B. Kritchevsky, the Wake Forest School of Medicine, (USA)

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

1:30/4:00pm **ORAL COMMUNICATIONS**

1:30am **OC21: Inter-muscular Adipose Tissue is associated with raised levels of novel biomarker MCP-1 and poorer performance characteristics in a group of community dwelling older adults**

Lim JP (1,2) (1) Department of Geriatric medicine. Tan Tock Seng Hospital. Singapore - (2) Institut of Geriatrics and Active Ageing. Tan Tock Seng Hospital. (Singapore)

1:45am **OC22: Magnetic Resonance Imaging (MRI) and Spectroscopy (MRS) in Sarcopenia to visualize muscle morphology and quantify muscle fat**

Alexandra Grimm(1,2) Heiko Meyer, PhD (2), Mathias Nittka, PhD (2), Esther Raithel, PhD (2), Andreas Friedberger (1), Marc Teschler (1), Michael Uder, MD, PhD (3), Wolfgang Kemmler, PhD (1), Harald H. Quick, PhD (1,4) Klaus Engelke, PhD (1) - (1) Institute of Medical Physics, University Erlangen Nuremberg, Erlangen, Germany - (2) Siemens Healthcare GmbH, Product Definition & Innovation, Erlangen, Germany - (3) Institute of Radiology, University Hospital Erlangen, Erlangen, Germany - (4) Erwin L. Hahn Institute for Magnetic Resonance Imaging, University Duisburg-Essen, Essen, (Germany)

2:00pm **OC23: Feasibility and predictive validity for measurement of frailty in patients with cardiac implantable electrical devices (CIEDs)**

Daniel B. Kramer, MD (123), Timothy Tsai, MPH (1), Poorna P. Natarajan, MBBS2, Elise Tewksbury, RN, BSN2, Susan L. Mitchell, MD MPH(123), **Thomas G. Trivison**, PhD (123) - (1) Hebrew SeniorLife Institute for Aging Research, Roslindale, MA (2) Beth Israel Deaconess Medical Center, Boston, MA (3) Harvard Medical School, Boston, MA Senior authors contributed equally - Thomas G. Trivison, PhD. Hebrew SeniorLife Institute for Aging Research, Harvard Medical School, Boston, MA - Daniel B. Kramer, MD (123), Timothy Tsai, MPH(1), Poorna P. Natarajan, MBBS (2), Elise Tewksbury, RN, BSN (2), Susan L. Mitchell, MD MPH (123) - (2) Beth Israel Deaconess Medical Center, Boston, MA - (3) Harvard Medical School, Boston, MA, (USA)

2:15pm **OC24: Prevalence of sarcopenia in a population of nursing home residents according to their frailty status: results of the SENIOR cohort**

F. Buckinx (1,2) JY. Reginster (1,2) C. Beaudart (1,2) JL. Croisier (3) J.Petermans (4) O. Bruyère (1,2,3) - (1) Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium- (2) Support Unit in methodology and Biostatistics, University of Liège, Belgium - (3) Department of Motricity Sciences, University of Liège, Belgium - (4) Department of Geriatrics, CHU of Liège, (Belgium)

2:30pm **OC25 : Associations between dietary protein and magnesium and skeletal muscle mass and strength in men and women from the UK Biobank Cohort**

Ailsa A Welch Norwich Medical School, University of East Anglia, Norwich, Norfolk NR4 7TJ, UK - Mary Hickson, Imperial College Healthcare NHS Trust, Department of Nutrition and Dietetics, Charing Cross Hospital, Fulham Palace Road, London W6 8RF, (UK)

2:45pm **OC26: Grip Strength as an Indicator of Clinically Relevant Muscle Weakness in Older Americans: Identifying Cutpoints and National Prevalence Estimates by Race in the U.S. Health and Retirement Study**

Kate Duchowny(1) Mark Peterson (2), Philippa Clarke (1,3) - (1) Department of Epidemiology, University of Michigan School of Public Health, Ann Arbor, MI (2) Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI (3) Institute for Social Research, University of Michigan, Ann Arbor, MI, (USA)

3:00pm **OC27: Association between Hemoglobin A1c and frailty in elderly community-dwelling individuals**

Shuangshuang Nie (1) Qianqian Sun (1) Ke Tan (2) Lingxiao Wang (1,3) Hai Qin (4) Ling Zhao (4) **Shuang Wang**(1) - (1) The Center of Gerontology and Geriatrics, West China Hospital, Sichuan University. (2) Department of Epidemiology and Health Statistics, West China School of Public Health, Sichuan University. (3) The Fifth People's Hospital of Chengdu. (4) PingYi Community Health Service Center of Dujiangyan City. (China)

3:15pm **OC28: Characterization of the heterogeneity within community dwelling malnourished older adults with sarcopenia**

Min Tian PhD (1) Suzette Pereira, PhD (1) Deborah Husted, PhD (1) Alfonso Cruz Jentoft, MD, PhD (2) Francesco Landi, MD, PhD (3) Mauro Zamboni, MD (4) Vikkie Mustad, PhD (1) - (1) Abbott Nutrition Research and Development, Columbus, OH, USA - (2) Hospital Universitario Ramón y Cajal, Madrid, Spain - (3) Università Cattolica del Sacro Cuore, Rome, Italy - (4) University of Verona, Verona, Italy

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

4:00/5:00pm **SYMPOSIUM 8: Frailty in Nursing Home: what we know and which solutions?**

Chairman: Mylene Aubertin-Leheudre, PhD. Département des Sciences de l'Activité Physique, Université du Québec à Montréal, Montréal, Canada; Centre de recherche de l'IUGM, Université de Montréal, Montréal, Canada; Groupe de recherche en Activités Physiques Adaptées, UQAM, Montréal, (Canada)

• **Frailty Index in nursing home - Results from the INCUR study.**

Matteo Cesari, MD. Gérontopôle de Toulouse, Institut du Vieillissement, Centre Hospitalo-Universitaire de Toulouse, Toulouse, France; UMR INSERM 1027, University of Toulouse III, Toulouse, (France)

• **Impact of hospitalization on frailty in NH residents.**

Yves Rolland, MD. Gérontopôle de Toulouse, Institut du Vieillissement, Centre Hospitalo-Universitaire de Toulouse, Toulouse, France. (2) UMR INSERM 1027, University of Toulouse III, Toulouse, (France)

• **An adapted physical activity gerontechnology to prevent frailty in nursing home and following minor injury**

Mylene Aubertin-Leheudre, PhD. Département des Sciences de l'Activité Physique, Université du Québec à Montréal, Montréal, Canada; Centre de recherche de l'IUGM, Université de Montréal, Montréal, Canada; Groupe de recherche en Activités Physiques Adaptées, UQAM, Montréal, (Canada)

- 5:00/6:15pm
5:00pm **ORAL COMMUNICATIONS**
OC29: Age associated decline in the conversion of Leucine to β Hydroxy- β Methylbutyrate in rats
Sathyavageswaran Shreeram (1), and Suzette L Pereira (2) - (1) Abbott Nutrition Research and Development, 20 Biopolis Way, Singapore 138668 - (2) Abbott Nutrition Research and Development, 3300 Stelzer Road, Columbus, Ohio 43219, (USA)
- 5:15pm **OC30: Frailty is associated with lower expression of genes involved in cellular response to stress**
Mariam El Assar, PhD (1), Javier Angulo, PhD (2), José Antonio Carnicero, PhD (3), Francisco José García García, MD (3), Eva López-Hernández, PhD (4), José María Sánchez- Puelles, PhD (4), Leocadio Rodríguez-Mañas, MD, PhD (1,5) - (1) Instituto de Investigación Sanitaria del Hospital Universitario de Getafe, Getafe, Spain. (2) Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), Hospital Ramón y Cajal, Madrid, Spain. (3) Hospital Virgen del Valle, Complejo Hospitalario de Toledo, Toledo, Spain. (4) Departamento de Medicina Celular y Molecular, Centro de Investigaciones Biológicas, Consejo Superior de Investigaciones Científicas. Madrid, Spain (5) Servicio de Geriatría, Hospital Universitario de Getafe, Getafe, (Spain)
- 5:30pm **OC31: Obesity, Sarcopenic Obesity or Sarcopenia: Which is a greater risk for Knee OA? MOST Study**
D. Misra, R. Fielding, (2) D.T. Felson, (1) M. Nevitt, (3) J. Torner, (4) C.E. Lewis, (5) T. Neogi (1) - (1) Boston University School of Medicine, Boston, MA - (2) Tufts University, Boston, MA - (3) University of California at San Francisco, San Francisco, CA - (4) University of Iowa, Iowa City, IA; - (5) University of Alabama at Birmingham, Birmingham, AL, (USA)
- 5:45pm **OC32: The incidence of sarcopenia among hospitalized older people: results from the GLISTEN Study**
Anna Maria Martone MD(1) - (1) Department of Geriatrics, Neurosciences and Orthopedics - Catholic University of the Sacred Heart, Rome, Italy - Matteo Tosato, MD, PhD1, Stefano Volpato, MD, PhD (2), Emanuele Marzetti, MD, PhD (1), Riccardo Calvani, PhD (1), Alex Sisto, BSc (1), Elena Ortolani, MD (1), Francesco Landi, MD, PhD (1) - (1) Department of Geriatrics, Neurosciences and Orthopedics - Catholic University of the Sacred Heart, Rome, Italy - (2) Department of Medical Science, University of Ferrara, (Italy)
- 6:00pm **OC33: An analysis of lifecourse influences on muscle strength: the role of diet quality in childhood**
Sian Robinson PhD (1,2), Sarah Crozier (1), Hazel Inskip (1), Keith Godfrey (1,2), - Nick Harvey (1,3), Cyrus Cooper (1,2,3), Avan Aihie Sayer (1,2,4,5) (1) MRC Lifecourse Epidemiology Unit, University of Southampton, UK - (2) NIHR Nutrition Biomedical Research Centre, University of Southampton and University Hospital Southampton NHS Foundation Trust, Southampton, UK - (3) NIHR Musculoskeletal Biomedical Research Unit, University of Oxford, Oxford, UK (4) NIHR CLAHRC Wessex - (5) Newcastle University Institute of Ageing and Institute of Health and Society, Newcastle University, (UK)

PARALLEL SESSIONS • BALLROOM 2

- 8:00/8:30am
8:00am **ORAL COMMUNICATIONS**
OC34: Feasibility and acceptability of a home-based exercise program (HEP) using a gerontechnology in community-living older adults after a minor injury.
Martine Lauzé, MSc(c) (1,2,3) - (1) Département des Sciences de l'activité physique, Université du Québec à Montréal (UQAM), Montréal (Qc), Canada. (2) Groupe de Recherche en Activité Physique Adaptée (GRAPA), UQAM, Montréal (Qc), Canada. (3) Centre de recherche de l'Institut universitaire de gériatrie de Montréal (CRIUGM), Montréal (Qc), Canada. - Dominic Martel, MSc(c)1,2,3, Amandine Agnoux, MSc1,2,3, Marcel Émond, MD4, Marie-Josée Sirois, PhD4, Raoul Daoust, MD5, Mylène Aubertin Leheudre, PhD1,2,3. - (1) Département des Sciences de l'activité physique, UQAM, Montréal (Qc), Canada. - (2) GRAPA, UQAM, Montréal (Qc), Canada. - (3) CRIUGM, Montréal (Qc), Canada. - (4) Centre de Recherche CHUQ, Hôpital de l'Enfant Jésus, Québec (Qc), Canada. - (5) Hôpital du Sacré-Coeur de Montréal, Montréal (Qc), (Canada)
- 8:15am **OC35: The Coach2Move strategy: A novel cost-effective physical therapeutic intervention for frail older adults**
Thomas Hoogeboom PT PhD, (1) Radboud university medical center, Radboud Institute for Health Sciences, IQ healthcare, Nijmegen, the Netherlands Nienke de Vries-Farrouh, PT PhD (2), Ria Nijhuis-van der Sanden, PT PhD (1,3) (2) Radboud university medical center, Department of Neurology (3) Radboud university medical center, Department of Rehabilitation, Nijmegen, (the Netherlands)
- 8:30/9:30am **SYMPOSIUM 9: Screening for Frailty and Sarcopenia**
Chairmen: John Morley, Saint Louis University Medical Center (USA), Bruno Vellas, Gérontopole, Toulouse (France)
• **The Gerontopole Experience**
Bruno Vellas, MD, PHD, Gérontopôle de Toulouse, Institut du Vieillissement, Centre Hospitalo-Universitaire de Toulouse, Toulouse, (France)
• **The Rapid Geriatric Assessment**
John Morley, MD, PHD, Saint Louis University Medical Center (USA)
• **The Kihon Index**
Hidenori Arai, MD, PHD, Kyoto University's Faculty of Medicine (Japan)
- 9:30/10:00am
9:30am **ORAL COMMUNICATIONS**
OC36: Monitoring Daytime Activity Among U.S. Older Adults: How many days of accelerometry are enough?
Masha Kocherginsky (1), **Megan Huisinigh-Scheetz** (2) William Dale (2), Diane S. Lauderdale(1), Linda Waite (3) - (1)University of Chicago Medicine, Department of Public Health Sciences - (2)University of Chicago Medicine, Section of Geriatrics and Palliative Medicine (3)University of Chicago Medicine, Department of Sociology (USA)
- 9:45am **OC37: Impact of Sarcopenia and Glucose-Lowering Treatment in Patients with DM on Risk of Cardiovascular Mortality: Health Inequality by Gender and Aging in the United States**
Longjian Liu, MD, PhD, Department of Epidemiology and Biostatistics, Drexel University Dornsife School of Public Health, Philadelphia, PA, 19104, (USA)
- 10:00/10:30am
10:00 am **ORAL COMMUNICATIONS**
OC38: The Association of Vitamin D Deficiency and Cardiometabolic Diseases with Incident Frailty in Older Women Frailty
Brian Buta, MHS1,2, Parichoy Pal Choudhury, MStat3, Qian-Li Xue, PhD1,2, Paulo Chaves, MD, PhD4, Karen Bandeen-Roche, PhD2,3, Jeremy Walston, MD1,2, Erin Michos, MD1,5,6, Lawrence Appel, MD1,5,6, Mara McAdams DeMarco, PhD5,6,7, Alden Gross, PhD2,5,6, Sevil Yasar, MD, PhD1,2, Michelle Shardell, PhD8,

Richard Semba, MD9, Luigi Ferrucci, MD, PhD8, Linda P. Fried, MD10, Rita Rastogi Kalyani, MD1,2,6 - (1) Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD - (2) Center on Aging and Health, Johns Hopkins University, Baltimore, MD - (3) Department of Biostatistics, Johns Hopkins University School of Public Health, Baltimore, MD - (4) Department of Medicine, and Family Center for Geriatric Research and Education, Florida International University (5) Department of Epidemiology, Johns Hopkins School of Public Health, Baltimore, MD - (6) Welch Center for Prevention, Epidemiology, and Clinical Research, Johns Hopkins University School of Medicine, Baltimore, MD - (7) Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD - (8) Intramural Research Program, National Institute on Aging, Baltimore, MD - (9) Department of Ophthalmology, Johns Hopkins University School of Medicine, Baltimore, MD - (10) Mailman School of Public Health, Columbia University, New York, NY (USA)

10:15am

OC39: The relationship between body composition remodeling and mortality: the Health Aging and Body Composition Study

Adam J. Santanasto, Bret H. Goodpaster, Stephen B. Kritchevsky, Iva Miljkovic, Suzanne Satterfield, Ann V. Schwartz, Steven R. Cummings, Robert M. Boudreau, Tamara B. Harris and Anne B. Newman. University of Pittsburgh (AJS, IM, RMB, ABN); Translational Research Institute for Metabolism and Diabetes, Florida Hospital, Sanford Burnham (BHG); Wake Forest School of Medicine (SBK); University of Tennessee Health Science Center (SS); University of California at San Francisco (AVS); California Pacific Medical Center Research Institute (SRC); National Institute on Aging (TBH), (USA)

10:30/11:00am

COFFEE BREAK AND POSTERS

11:00/12:30pm

SYMPOSIUM 10: The NIA and FNIH Initiatives to Develop a Consensus: Definition of Sarcopenia

Chairmen: **Shalender Bhasin**, Harvard Medical School (USA), **Roger Fielding**, HNRCA, Tufts University (USA)

• An Overview: Presentation of the larger goals of the initiative and its public health and regulatory importance

Shalender Bhasin, Harvard Medical School (USA)

• Generating Cut-Points Using Data from Epidemiological Studies and Statistical Considerations: Defining the Specificity, Sensitivity, Predictive Value of the Cut-Point

Thomas G Travison, Harvard Medical School (USA)

• Application of the Cut-Points to Clinical Populations and RCT Populations

Roger Fielding, Tufts University (USA)

• European Initiative on Cut-Points to define sarcopenia

TBC

• Regulatory Perspective: Presentation of regulatory view of this effort.

TBC

12:30/1:30pm

LUNCH BREAK AND POSTERS

1:30/3:30pm

ORAL COMMUNICATIONS

1:30 pm

OC40: The Effect of High Doses of Vitamin D on Muscle Strength, Gait, and Physical Performance in Frail Older Adults

Manuel Montero-Odasso, MD, PhD (1,2) (1) Gait and Brain Lab, Parkwood Hospital, Lawson Health Research Institute; (2) Schulich School of Medicine & Dentistry, Department of Medicine and Division of Geriatric Medicine, University of Western Ontario, London, ON, (Canada)

1:45 pm

OC41: Hip Strength Helps to Explain Walking Performance among Older Adults with a Primary Complaint of Low Back Pain

J. Megan Sions, PhD, DPT(1), Peter Coyle, DPT(1), Teonette O. Velasco, DPT(1), Gregory E. Hicks, PhD, PT(1) (1) The Delaware Spine Studies, University of Delaware, Newark, Delaware, (USA)

2:00 pm

OC42: Effect of six months of daily consumption of a multi-ingredient nutrition supplement containing fish oil, whey protein, vitamin D, and resveratrol on physical and cognitive function in older (>65 y) Irish adults

Brendan Egan, PhD (1,2), Alessandro Scotto di Palumbo, PhD(1), Catherine N. Moran, MPsychSci(3), Hannah Stynes, MPsychSci(3), Michelle Hone, BSc(1,2), Aoibheann M. McMorrough, PhD(1,2), Gina Lynch, BSc(1,2) Brendan Rooney, PhD(3), Prof. Aidan P. Moran, PhD(1,3), Jessica Bramham, PhD(3), Prof. Giuseppe de Vito, MD PhD(1,2) - (1)Institute for Sport & Health, (2)Institute of Food & Health, School of Public Health, Physiotherapy and Sports Science, and (3)School of Psychology, University College Dublin, Belfield, Dublin 4, (Ireland)

2:15 pm

OC43: Physical performance beyond muscle mass in cognitively impaired older adults: Influence of insulin-like growth factor-1 and Nutrition on Muscle quality

Tay Laura (1,2) (1) Departement of Geriatric medicine. Tan Tock Seng Hospital. Singapore - (2) Institut of Geriatrics and Active Ageing. Tan Tock Seng Hospital. (Singapore)

2:30 pm

OC44: Estimating the Proportion of Phenotypic Variance in Frailty Explained by Common Genetic Variants in the English Longitudinal Study of Ageing

Krisztina Mekli, PhD (1), Gindo Tampubolon, PhD(1), James Nazroo, MB, BS, PhD(1), Alan Marshall, PhD(2), Neil Pendleton, MBChD (3) - (1) Cathie Marsh Institute for Social Research, University of Manchester, Manchester, UK - (2) School of Geography and Geosciences, University of St Andrews, St Andrews, UK - (3) Institute of Brain, Behaviour and Mental Health, University of Manchester, Manchester, (UK)

2:45pm

OC45: Impact of Sarcopenia on Post-Operative Morbidity and Mortality Following Lumbar Spine Surgery

Steven L. Bokshan, MD (1), Alex L. Han, BS (2), J. Mason DePasse, MD(1), Stephen E. Marcaccio, BS(2), Alan H. Daniels, MD (3) - (1) Department of Orthopaedics, Warren Alpert Medical School of Brown University, Providence, RI. - (2) Warren Alpert Medical School of Brown University, Providence, RI. (3) Department of Orthopaedics, Division of Spine Surgery- Adult Spinal Deformity Service, Warren Alpert Medical School of Brown University, Providence, RI, USA

3:00pm

OC46: Effects of Whole-Body Electromyostimulation on Sarcopenic Obesity in community dwelling women of 70 years and older

Wolfgang Kemmler, PhD (1), Simon von Stengel, PhD (1), Klaus Engelke, PhD (1), Ellen Freiburger, PhD (2), Cornel Sieber, MD (2) - (1) Institute of Medical Physics, Friedrich-Alexander University of Erlangen-Nürnberg (FAU), Germany - (2) Institute for Biomedicine of Ageing, FAU Erlangen-Nürnberg, (Germany)

3:15pm

OC47: Degree of agreement among frailty tools

Checa M. MD (1,2), Carnicero J.A. PhD (1), González J. MD (1, 2), Palumbo C. MD, (1) Solano J.J. MD (3), Sinclair A. MD, PhD, Prof (5), Scuteri A Bernabei R. MD, PhD, Prof(4), MD6, Prof(7), Rodríguez Mañas L. MD, PhD, Prof(1,2) - (1).Fundación para la Investigación Biomédica del Hospital Universitario de Getafe. Madrid (Spain).(2) Geriatric Department. Hospital Universitario de Getafe. Madrid (Spain).(3) .Hospital Monte Naranco. Asturias (Spain).(4).Università Cattolica del Sacro Cuore. Milano (Italy).(5) .Diabetes Frail Ltd. (United Kingdom). (6).San Raffaele Pisana. Roma (Italy).

3:30/4:00pm

COFFEE BREAK AND POSTERS

4:00/4:30pm

ORAL COMMUNICATIONS

4:00pm

OC48: Efficacy of a novel L-carnitine-containing formulation on Lean Body Mass and functional muscle strength in healthy older adults: A randomized, double-blind placebo-controlled study

Aouatef Bellamine, PhD Global Nutrition Lonza Mal Evans, PhD, Najla Guthrie PhD, GK Synergize

4:15pm

OC49: Retrospective evaluation of computed tomography in a total hip arthroplasty population

Michael Heffler BA (1), Ryan Barlow, BS(1), Avneesh Chhabra, MD(1) - (1)University of Texas Southwestern Medical Center Department of Radiology - Musculoskeletal Division- Dallas, Texas 75390

4:30/6:15pm

LATE BREAKING NEWS

- P1 Study of biomarkers of frailty in the aging population**
Swapnil Jathar, M.D; Co-author: A.B Dey, M.D vandana society, LBS road, Thane, Maharashtra, (India)
- P2 Association of cancer related fatigue with other symptoms and impact on quality of life of palliative care patients in a tertiary cancer institute: a prospective observational study**
A Ghoshal, MD (1), J Deodhar, MD(Psy), D.P.M., DNB(Psy), DMH(UK), MRCPsych, CCST (2), MA Muckaden, MD, MSc (3) - (1,2,3) Tata Memorial Centre, Dr E Borges' Road, Parel, (Mumbai)
- P3 The age-performance relationship**
Geoffroy Berthelot, PhD IRMES (Institut de Recherche bioMédicale et d'Epidémiologie du Sport), INSEP, Sorbonne Paris Cité, Paris, France - Adrien Marck, MS (1,2,3), Vincent Foulonneau, MS (1,2,3) Juliana Antero-Jacquemin, MS(1,2), Philippe Noirez, PhD (1,2), Anne M. Bronikowski, PhD (4), Ted J. Morgan, PhD (5), Theodore Garland Jr., PhD (6), Patrick A. Carter, PhD (7), Jean-François Toussaint, PhD (1,2,8) - (1) IRMES (Institut de Recherche bioMédicale et d'Epidémiologie du Sport), INSEP, 11 avenue du Tremblay, 75 012 Paris (2) EA 7329, Université Paris-Descartes, Sorbonne Paris Cité, Paris, France - (3) Frontiers in Life Science E.D. 474, Paris, France - (4) Department of Ecology, Evolution, and Organismal Biology, Iowa State University, Ames, IA, USA - (5) Division of Biology, Kansas State University, Manhattan, KS, USA - (6) Department of Biology, University of California, Riverside, CA, USA - (7) School of Biological Sciences, Washington State University Pullman, WA, USA - (8) CIMS (Centre d'Investigations en Médecine du Sport), Hôtel Dieu, Assistance Publique-Hôpitaux de Paris, Paris, (France)
- P4 Association between sarcopenia and quality of life in Quilombola elderly**
Luiz S. S., Neto (1, 2, 3), Margô. G.O Karnikowski (2) - Neila B. Osório (3) - Leonardo C. Pereira (2) - Marcilio B. Mendes (1) - Galato. D (2) - Liana B. Gomide (4) - João Paulo C. Matheus (2, 4) - (1) School of Medicine, Federal University of Tocantins, Palmas, State of Tocantins, Brazil; (2) Graduate Program in Health Sciences and Technology, Ceilândia College, University of Brasília, Federal District, Brazil. (3) Graduate Program in Education, Federal University of Tocantins, Palmas, Tocantins, Brazil; (4) School of Physiotherapy, Ceilândia College, University of Brasília, Federal District, (Brazil)
- P5 Osteosarcopenia is more than Sarcopenia and Osteopenia alone**
Michael Drey, MD, MSc (1), Cornel C. Sieber, MD (2), Thomas Bertsch, MD (3), Jürgen M. Bauer, MD (4), Ralf Schmidmaier, MD, MME (1) - (1) Medizinische Klinik und Poliklinik IV, Schwerpunkt Akutgeriatrie, Klinikum der Universität München (LMU), München, Germany (2) Institute for Biomedicine of Aging, University of Erlangen-Nürnberg, Nürnberg, Germany - (3) Institute of Clinical Chemistry, Laboratory Medicine and Transfusion Medicine, Paracelsus Medical University, Nürnberg, Germany - (4) Department of Geriatric Medicine, Carl von Ossietzky University, Oldenburg, (Germany)
- P6 Postacute Prevalence of Sarcopenia: Measurements in Aged in-patients during Rehabilitation: The PSMAR study**
Dolores Sánchez-Rodríguez MD, Geriatrics Department, Parc de Salut Mar, Hospital del Mar Medical Research Institute (IMIM); School of Medicine, Universitat Autònoma de Barcelona, Spain. Ester Marco MD, PhD (2,3,4); Josep M. Muniesa, MD, PhD (2,3,4); Emilio Casanovas-Atienza, NP (1,2,3); Olga Vázquez-Ibar, MD (1,2,3); Ramón Miralles, MD, PhD (1,2,3) (1) Geriatrics Department, Parc de Salut Mar, Barcelona, Spain - (2) Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain - (3) School of Medicine, Universitat Autònoma de Barcelona, Spain (4) Physical Medicine and Rehabilitation Department, Parc de Salut Mar, Barcelona, (Spain)
- P7 Improvement in Muscle Performance after One-Year Cessation of Low-Magnitude High-Frequency Vibration in Community Elderly**
Kwok-Sui Leung, Wing-Hoi Cheung, Chi-Yu Li - Department of Orthopaedics and Traumatology - The Chinese University of (Hong Kong)
- P8 Effect of Low-Magnitude High-Frequency Vibration Treatment on Retardation of Sarcopenia-Senescence Accelerated Mice-P8 (SAMP8) Model**
Wing-hoi Cheung, An-yun Guo, Jiang-hui Qin, Simon Kwoon-ho Chow, Kwok-sui Leung, Department of Orthopaedics and Traumatology The Chinese University of (Hong Kong)
- P9 FRAIL-NH Predicts Outcomes in Long Term Care**
Ellen W. Kaehr, Saint Louis University Division of Geriatric Medicine, Assistant Professor - Theodore K. Malmstrom, Ph.D. Saint Louis University Department of Neurology and Psychiatry, Associate Professor - Laura C. Pape, B.S. Saint Louis University School of Medicine, Class of 2018 - John E. Morley, M.B., B.Ch. - Saint Louis University Division of Geriatric Medicine, Professor and Division Chief (USA)
- P10 Adult GrandChildren and GrandParents Dementia: when the third generation becomes the primary caregiver**
Dominique Huvent-Grelle (1) MD Sylvie Demarle (2) MD, Jean Baptiste Beuscart (1) MD, Laurie Delannoy (1) MD, Eric Boulanger (1) MD PhD, François Puisieux (1) MD PHD (1) pôle de gérontologie, CHRU Lille, hôpital gériatrique les bateliers, 23 rue des bateliers, 59037 Lille, (France)
- P11 Study of sarcopenia in elderly patients with type 2 diabetes**
Al Houssein Al Sayed Mahmoud, MD (1), Emam Mohammed Esmayel, MD (2), Amira Shoukry Ahmed, MD (3) - (1) Lecturer of internal medicine, Faculty of Medicine, Zagazig University, Egypt. - (2) Professor of internal medicine, Faculty of Medicine, Zagazig University, Egypt. - (3) Assistant professor of internal medicine, Faculty of Medicine, Zagazig University, (Egypt)
- P12 Sarcopenia as determinant of lower survival in Chilean older people. The ALEXANDROS study**
Lydia Lera, PhD (1), Cecilia Albala, MD, MPH (1), Hugo Sánchez, MD, MPH (1), Barbara Angel, PhD (1), Patricia Arroyo, MD, MSc (2), Carlos Marquez, MSc (1), Florencia Insunza - (1) Institute of Nutrition and Food Technology, University of Chile, Chile (2) University of Chile Hospital, (Chile)
- P13 Quadriceps muscle power and optimal shortening velocity as determinants of functional abilities of older adults in a long-term care home: a one-year follow-up study**
Tomasz Kostka Department of Geriatrics, Medical University of Lodz, Lodz, Poland. - Izabela Kozicka, Department of Geriatrics, Medical University of Lodz, Lodz, (Poland)
- P14 Screening and preventing risks of frailty in community-dwelling senior citizens: a global personalised approach to promote healthy ageing**
Michel Nogués, PhD (1,3,4) Justine Millot-Keurincq, MSc(1,3), Jean Bousquet, MD, PhD(2,4), Jacques Touchon, MD, PhD(2,3), Valérie Bruguière, MA(1,3), Gabrielle Onorato, MSc(1), Jean-Claude Reuzeau, MA(1) - (1) (2) (3) (4) Caisse Assurance Retraite et Santé Au Travail (Carsat) Languedoc-Roussillon, Montpellier, France Centre Hospitalier Universitaire (CHU), Montpellier, France Institut Régional du Vieillessement (IRV), Montpellier, France MACVIA LR (France)
- P15 Improvement of gait speed after three months of home-based exercise program (HEP) using a gerontechnology in community-living older adults following a minor injury.**
Dominic Martel (1,2,3) - Martine Lauzé (1,2,3), Amandine Agnoux (1,2,3), Marcel Émond (4), Marie-Josée Sirois (4), Raoul Daoust (5) and Mylène Aubertin-Leheudre (1,2,3) (1) Département des sciences de l'activité physique, Université du Québec à Montréal (UQAM), Québec, Canada; (2) Groupe de Recherche en Activité Physique Adaptée (GRAPA), UQAM, Québec, Canada; (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal (CRIUGM), Montréal, Québec, Canada. -(4) Centre de recherche du CHU de Québec, Hôpital de l'Enfant-Jésus, Québec, Québec, Canada; -(5) Hôpital du Sacré-Cœur de Montréal, Montréal, Québec, (Canada)
- P16 English translation and cross-cultural adaptation of the sarqol® questionnaire**
Charlotte Beaudart (1) (Mark Edwards (1), Elaine Dennison (2), Charlotte Moss (2), Olivier Bruyère (1), Jean-Yves Reginster (1), Rebecca Moon (2), Christophe Demoulin (3), Cyrus Cooper (2) (1) Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium - (2) MRC Lifecourse Epidemiology Unit, University Hospital Southampton, UK -(3) Department of Sport and Rehabilitation Sciences, University of Liege, Liege, (Belgium)
- P17 High Prevalence of sarcopenia in women with osteoporotic fractures.**
Candela Fernández (1), Beatriz Oliveri (1), Alicia Bagur (1), Dolores Gómez Glorioso (1), Diana González (1) y Carlos Mautalen (1) - (1) Mautalen, Salud e Investigación, Buenos Aires, (Argentina)
- P18 Muscle stretching exercise reduces fibrosis in the soleus muscle of aged female rats**
Hilana Rickli Fiuza Martins, PT (1), Talita Gnoatto Zotz, PT, MS, PhD (2), Sabrina Peviani Messa, PT, PhD (3), Rafael Zotz (4); Lucia Noronha, MD, MS, PhD (5); Marina Louise Viola de Azevedo, MS6, Anna Raquel Silveira Gomes PT, MS, PhD (7) - (1) Master student of Physical Education Department, Federal University of Paraná, Curitiba, Paraná, Brazil. (2) Physiotherapy Department, Pontifical Catholic University of Paraná, Curitiba, Paraná, Brazil (3) Biochemistry and Molecular Biology Laboratory, Federal University of São Carlos. São Carlos. São Paulo. Brazil. (4) Vivarium Department; Pontifical Catholic University of Paraná, Curitiba, Paraná, Brazil (5) Medicine Department and Experimental Pathology Department, Masters and Doctorate Programs in Health Science of the Pontifical Catholic University of Paraná, Curitiba, Paraná, Brazil (6) Experimental Pathology Department, Pontifical Catholic University of Paraná, Curitiba, Paraná, Brazil. (7) Physiotherapy Department, Masters and Doctorate Programs in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. (Argentina)
- P19 Prevalence of sarcopenia in female older persons of a public hospital from south Brazil**
Adriane Miró Vianna Benke Pereira, MD, MS (1), Jarbas Melo Filho, PT, MS (2), Simone Biesek, RD, MS (3), Gabriela Carrascosa Molina (4), Luiza Bendhack (5), Ruan Felipe Michalowski (6) Anna Raquel Silveira Gomes PT, MS, PhD (7) - (7) Anna Raquel Silveira Gomes, PT, MS, PhD (7) Physiotherapy Department, Masters and Doctorate Programs in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. - (1) Clinic Unit, Health Aging Ambulatory, Clinic Hospital Complex- CHC/EBSERH, Federal University of Paraná, Curitiba, Paraná, Brazil. (2) PhD student of Physical Education Department, Federal University of Paraná, Curitiba, Paraná, Brazil. (3) Centro Universitário Autônomo do Brasil, Curitiba, Paraná, Brazil. (4) Undergraduate Physiotherapy Student, Federal University of Paraná, Curitiba, Paraná, Brazil. (5) Undergraduate Physiotherapy Student, Federal University of Paraná, Curitiba, Paraná, Brazil. (6) Undergraduate Physiotherapy Student, Federal University of Paraná, Curitiba, Paraná, (Brazil)
- P20 Sarcopenic subgroups of older adults and their neuromuscular functions**
Tobias Morat, PhD (1,2), Kevin J Gilmore, BHSoc (2), Charles L Rice, PhD (2,3) - (1) German Sport University Cologne, Institute of Movement and Sport Gerontology, Cologne, Germany -(2) Canadian Centre for Activity and Aging, School of Kinesiology, Faculty of Health Sciences, The University of Western Ontario, London, ON, Canada -(3) Department of Anatomy and Cell Biology, Schulich School of Medicine and Dentistry, The University of Western Ontario, London, ON, (Canada)

- P21 Muscle thickness and indicators of sarcopenia in community older women**
 Luiza Herminia Gallo, PE, PhD Student (1), Elisangela Valevein Rodrigues, PT, MS, PhD Student (2), Jarbas Melo Filho, PT, MS, PhD Student (3), Carla Tissiane de Souza Silva, PT, Master Student(4), **Anna Raquel Silveira Gomes** (5) - (5) PT, MS, PhD5. Physiotherapy Department, Masters and Doctoral Programs in Physical Education, Federal University of Paraná. Curitiba. Paraná. Brazil. (1) Doctoral Program in Physical Education, Federal University of Paraná, Curitiba, Paraná, Brazil -(2) Doctoral Program in Physical Education, Federal University of Paraná. Course Massage Therapy, Federal Institute of Paraná, Curitiba, Paraná, Brazil-(3) Doctoral Program in Physical Education, Federal University of Paraná, Curitiba, Paraná, Brazil- (4) Master's Program in Physical Education, Federal University of Paraná, Curitiba, Paraná, (Brazil)
- P22 Intake of protein and leucine per meal in malnourished nursing home residents**
Sander Wijers, Hilde Heyman, RN (2,3), Sjors Verlaan, MSc (1,4), Dirk Van De Looverbosch, MD5(1)Nutricia Research, Nutricia Advanced Medical Nutrition, Utrecht, (The Netherlands) - (2)Wound Consulting Society Belgium, Aartseleer, Belgium(3)European Pressure Ulcer Advisory Panel EPUAP, Aartseleer, Belgium(4)VU University Medical Center, Amsterdam, The Netherlands (5) Geriatrics Department, University of Antwerp, (Belgium)
- P23 Effect of nutritional status , macronutrient intake and life style to muscle grip strength reduction in elderly**
Yvonne Suzy Handajani, PhD (1), Yuda Turana, PhD (2) - (1) Department of Public Health and Nutrition of Faculty of Medicine & Center for Health Research, Atma Jaya Catholic University - (2) Department of Neurology of & Faculty of Medicine & Center for Health Research, Atma Jaya Catholic University (Indonesia)
- P24 Concordance between tools for the detection of community dwelling frail adults**
Itziar Vergara Primary Care Research Unit Gipuzkoa, Osakidetza, Health Services Research on Chronic Patients Network (REDISSEC), Biodonostia Health Research Institute, San Sebastian-Donostia, Spain Itziar Vergara (1,2,3,5); Mónica Machón (1,2,3,5); Kalliopi Vrotsou (1,2,3,5); Nerea Egües (3); Andoni Bueno (4); Jazmina Nuñez (4); Ana Diez (3, 4); Maider Mateo-Abad (1,5). (1) Primary Care Research Unit Gipuzkoa, Osakidetza, San Sebastian-Donostia, Spain (2) Health Services Research on Chronic Patients Network (REDISSEC), San Sebastian-Donostia, Spain (3) Biodonostia Health Research Institute, San Sebastian-Donostia, Spain (4) Beraun Health Center, OSI DONostialdea, Osakidetza, Renteria, Spain (5) Kronikgune, Bilbao, (Spain)
- P25 Prevalence of sarcopenia in diabetic elderly in Egypt**
Esmayel E ; Eldarawy M, Shoukri A, Internal medicine department, Zagazig faculty of medicine , (Egypt)
- P26 Housing conditions, frailty and limitations in physical function among older adults**
 Esther García-Esquinas, MD (1), Bibiana Pérez-Hernández, BSc, MPH (1), Pilar Guallar-Castillón, MD (1), José R. Banegas, MD (1), José Luis Ayuso-Mateos, MD (2), Fernando Rodríguez-Artalejo, MD (1) - **Fernando Rodríguez-Artalejo**, MD, Department of Preventive - Medicine and Public Health, Universidad Autónoma de Madrid/ Idipaz and CIBER of Epidemiology and Public Health (CIBERESP), Madrid, Spain. Esther García-Esquinas, MD1, Bibiana Pérez-Hernández, BSc, MPH1, Pilar Guallar-Castillón, MD1, José R. Banegas, - MD1, José Luis Ayuso-Mateos, MD2 - (1) Department of Preventive Medicine and Public Health, Universidad Autónoma de Madrid/ Idipaz and CIBER of Epidemiology and Public Health (CIBERESP), Madrid, Spain. - (2) Department of Psychiatry, Universidad - Autónoma de Madrid/Instituto de Investigación del Hospital de la Princesa and CIBER of Mental health (CIBERSAM), Madrid, (Spain)
- P27 Patterns of alcohol consumption and the physical and mental components of quality of life in older adults**
 Rosario Ortolá, MD (1,2), Esther García-Esquinas, MD (1,2), Iñaki Galán, MD (1,3), **Fernando Rodríguez-Artalejo**, MD (1,2) - Fernando Rodríguez-Artalejo, MD, Department of Preventive Medicine and Public Health, Universidad Autónoma de Madrid/ Idipaz and CIBER of Epidemiology and Public Health (CIBERESP), Madrid, Spain. Rosario Ortolá, MD (1,2), Esther García-Esquinas, MD (1,2), Iñaki Galán, MD1,3 - (1) Department of Preventive Medicine and Public Health, Universidad Autónoma de Madrid/ Idipaz, Madrid, Spain. - (2) CIBER of Epidemiology and Public Health (CIBERESP), Madrid, Spain. - (3) -National Centre for Epidemiology, Instituto de Salud Carlos III. Calle de Sinesio Delgado 4, 28029 Madrid, Spain.
- P28 Associations of IADL with grip strength and related indices of agility, depending on sex and age. - Investigation by a newly-developed grip strength measuring device**
Yasumoto Matsui MD PhD (1), (1)Department of Advanced Medicine (Orthopedic Surgery) National Center for Geriatrics and Gerontology, Obu, Japan - Remi Fujita, PT MS1, Atsushi Harada, MD PhD12, Takashi Sakurai, MD PhD3, Tetsuya Nemoto, PhD4, Nobuo Nod PhD6 and Kenji Toba MD PhD5 (2) Director of Hospital, (3) Center for Comprehensive Care and Research on Memory Disorders, (4) Center for assistive Robotics (5) President, National Center for Geriatrics and Gerontology, Obu, and (6) Eisyo Metal Co., Ltd, Tokyo, (Japan)
- P29 Octogenarians and nonagenarians exhibit impairments in leg extensor voluntary activation, but not elbow flexor voluntary activation**
Leatha A. Clark DPT, MS (1,2), Shin Amano, PhD (1,3), Rachel Clift, MSN, RN (1,3), David W. Russ, PT, PhD (1,4), Todd M. Manini, PhD (5), Tim D. Law, DO, MBA (1,2,3,6) and Brian C. Clark, Ph (1,6,7) (1) Ohio Musculoskeletal and Neurological Institute (OMNI) at Ohio University, Athens, OH, USA; (2) Department of Family Medicine at Ohio University, Athens, OH, USA; (3) Clinical an Translational Research Unit at Ohio University, Athens, OH, USA; (4) School of Rehabilitation and Communication Sciences, Ohio University, Athens, OH, USA; (5) Institute on Aging, University of Florida, Gainesville, FL, USA; (6) Department of Geriatric Medicine at Ohio University, Athens, OH, USA; (7) Department of Biomedical Sciences at Ohio University, Athens, OH, (USA)
- P30 Promotion of Advance Care Planning for elder people nearing pre-frailty and frailty: proposal from Preventing, Avoiding, Postponing or Reducing Frailty Program in National Center for Geriatrics and Gerontology, Japan**
Kazuyoshi Senda MD, PhD (1, 2) - (1)Innovation Center for Clinical Research, (2) Division of Home Care Promotion, National Center for Geriatrics and Gerontology, Obu, Japan - Shosuke Satake, MD, PhD3, 4, Sanae Takanashi, RN, CNS, MSN5, Sanae Sakakibara, RN5, Kahori Kinoshita, RD4, Yoshinori Iida, RPT6, Naoya Asano, RPT6, Izumi Kondo, MD, PhD6, Mitsunori Nishikawa, MD2, Hisayuki Miura, MD, PhD2, Hidetoshi Endo, MD, PhD3. (3) Department of Geriatric Medicine, (4) Department of Nutrition, (5) Department of Nursing, (6) Department of Rehabilitation Medicine, National Center for Geriatrics and Gerontology, Obu, (Japan)
- P31 Annual change of Kihon Check List for predicting frailty status in Japanese elder patients with chronic obstructive pulmonary disease: a three-year observation at outpatient clinic for comprehensive pulmonary rehabilitation**
Kazuyoshi Senda MD, PhD (1, 2, 3) - (1) Innovation Center for Clinical Research, (2) Division of Home Care Promotion, (3) Department of Laboratory Medicine, National Center for Geriatrics and Gerontology, Obu, Japan - Shosuke Satake, MD, PhD (4), Izumi Kondo, MD, PhD (5), Mitsunori Nishikawa, MD (2), Haruhiko Tokuda, MD, PhD (3), Hisayuki Miura, MD, PhD (2), Hidetoshi Endo, MD, PhD (4) - (4) Department of Geriatric Medicine, (5) Department of Rehabilitation Medicine, National Center for Geriatrics and Gerontology, Obu, (Japan)
- P32 Frequency analysis of electromyograms of the muscles around the knee in knee osteoarthritis patients**
Yasuo Suzuki, PhD (1,2), Yasumoto Matsui, MD, PhD (2), Remi Fujita (2), Atsushi Harada, MD, PhD (3) - (1) Department of Human Care Engineering, Nihon Fukushi University, Japan (2) Department of Advanced Medicine (Orthopedic Surgery), National Center for Geriatrics and Gerontology, Japan - (3) Director of Hospital, National Center for Geriatrics and Gerontology, (Japan)
- P33 Frailty as a risk factor for adverse outcomes in older persons with delirium**
Justin Chew, MRCP (1,2) - (1) Department of Geriatric medicine, Tan Tock Seng Hospital, Singapore - (2) Institut of Geriatrics and Active Ageing, Tan Tock Seng Hospital, (Singapore)
- P34 SARC-F and The Edmonton Frail Scale: Correlations and Predictors of Patient's Outcomes amongst Older Adults**
Lin Zhen Yu Yong Long Lin School of Medicine, National University of Singapore, Singapore - Tan Li Feng - Department of Medicine, National University Hospital, Singapore - Santhosh K Seetharaman Yong Long Lin School of Medicine, National University of Singapore, Singapore; Department of Medicine, National University Hospital, Singapore - Reshma A Merchant - Yong Long Lin School of Medicine, National University of Singapore, Singapore; Department of Medicine, National University Hospital, (Singapore)
- P35 Patterns of alcohol consumption and risk of frailty in community-dwelling older adults**
 Rosario Ortolá, MD1,2, Esther García-Esquinas, MD1,2, Luz M. León-Muñoz, PhD1,2, Pilar Guallar-Castillón, MD1,2, José Lorenzo Valencia-Martín, MD1,2,3, Iñaki Galán, MD1,4, **Fernando Rodríguez Artalejo**, MD1,2 Fernando Rodríguez-Artalejo, MD, Department of Preventive Medicine and Public Health, Universidad Autónoma de Madrid/ Idipaz and CIBER of Epidemiology and Public Health (CIBERESP), Madrid, Spain. Rosario Ortolá, MD1,2, Esther García-Esquinas, MD1,2, Luz M. León-Muñoz, PhD1,2, Pilar Guallar-Castillón, MD1,2, José Lorenzo Valencia-Martín, MD1,2,3, Iñaki Galán, MD1,4. - (1) Department of Preventive Medicine and Public Health, Universidad Autónoma de Madrid/ Idipaz, Madrid, Spain. - (2) CIBER of Epidemiology and Public Health (CIBERESP), Madrid, Spain. - (3) Department of Preventive Medicine, Móstoles University Hospital. Móstoles, Spain. - (4) National Center for Epidemiology, Instituto de Salud Carlos III. Calle de Sinesio Delgado 4, 28029 Madrid, Spain.
- P36 How to manage frail elderly? A community outreach conducted by the Toulouse**
Neda Tavassoli*, Christine Lafont*, Justine de Kerimel*, Maria Soto*, Maryse Pedra*, Christine Lagourdette*, Laure Bouchon*, Alain Chaléon**, Bruno Vellas* *Gérontopôle de Toulouse, Equipe Régionale Vieillesse et Prévention de la Dépendance, Département de Médecine Interne et Gérontologie Clinique, Centre Hospitalier Universitaire de Toulouse, 170 avenue de Casselardit, 31300 Toulouse, France - **Mairie de Cugnaux, 5 Place de l'Église, 31270 Cugnaux (France)
- P37 Establishment and description of the Midi-Pyrénées Frailty Database**
Maria Soto, Justine de Kerimel, Neda Tavassoli, Christine Lafont, Maryse Pedra, Sophie Guyonnet - Gérontopôle de Toulouse, Equipe Régionale Vieillesse et Prévention de la Dépendance, Département de Médecine Interne et Gérontologie Clinique, Centre Hospitalier Universitaire de Toulouse, 170 avenue de Casselardit, 31300 Toulouse, (France)
- P38 Reassessment of the prediction of grip strength: Implementation of Group-rhythmic intervention for middle-aged adults with intellectual disability**
Hsiu-Lan Chin Department of Aged Welfare & Social Work, Toko University, Taiwan / Associate professor - No.51, Sec. 2, Syuefu Rd., Puzih City, Chiayi County 61363, (Taiwan)
- P39 Macronutrient and obesity were predictor factors of Sarcopenia : case study of elderly in community and institutional base, Jakarta, Indonesia**
Yvonne Suzy Handajani, PhD (1), Yosephin Santoso (2), MD - Department of Public Health and Nutrition of Faculty of Medicine & Center for Health Research, Atma Jaya Catholic University Department of Public Health and Nutrition of Faculty of Medicine, Atma Jaya Catholic University (Indonesia)

- P40 The role of vitamin D and exercises in correction of age-related skeletal muscle changes in postmenopausal women**
Vladyslav Povoroznyuk, Nataliia Dzerowych, Roksolana Povoroznyuk Kyiv, (Ukraine)
- P41 Prevalence of frailty among nursing home, according to different operational definitions**
F. Buckinx (1,2), J.Y. Reginster (1,2), S. Gillain (3), J. Petermans (3), T. Brunois (1,2), O. Bruyère (1,2 & 4) - (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) Department of geriatrics, CHU of Liège, Belgium - (4) Department of Motricity Sciences, University of Liège, (Belgium)
- P42 Physical and muscle performances among elderly nursing home residents: Results of the SENIOR cohort**
F. Buckinx (1,2), J.Y. Reginster (1,2), J.L. Croisier (3), J. Petermans (4), O. Bruyère (1,2&3) - (1) Department of Public Health, Epidemiology and Health Economics, University of Liège, Belgium - (2) Unit Support in Epidemiology and Biostatistics, University of Liège, Belgium (3) Department of Motricity Sciences, University of Liège, Belgium - (4) Department of Geriatrics, CHU of Liège, (Belgium)
- P43 Effect of gender on the age specific onset in changes of organs and tissue masses, resting energy expenditure (REE) and the REE-body composition relationship in healthy Caucasians**
Corinna Geisler, Institute of Human Nutrition and Food Science, Christian-Albrechts-Universität zu Kiel, Kiel, Germany Wiebke Braun (1), Maryam Pourhassan (1), Lisa Schweitzer (1), Claus-Christian Glüer (2), Anja Bösby-Westphal (1,3) and Manfred J. Müller1 - (1) Institute of Human Nutrition and Food Science, Christian-Albrechts-Universität zu Kiel, Kiel, Germany - (2) Clinic for Diagnostic Radiology, Section Biomedical Imaging, Molecular Imaging North Competence Center CC, Kiel, Germany - (3) Institute of Clinical Nutrition, Universität Hohenheim, Stuttgart, (Germany)
- P44 Prevalence of sarcopenia and associated factors in community-dwelling elderly in rio de janeiro state/brazil.**
Silvia Maria Custódio das Dôres, Camila dos Santos Fernandes, Guilherme CocaVelarde. Universidade Federal Fluminense, Niterói/Rio de Janeiro, (Brazil)
- P45 The Impact of Sarcopenia or Sarcopenic Obesity in the Older Subjects with Diabetes**
Ken Sugimoto, MD, PhD (1), Taku Fujimoto, MD (1), Koichi Tachibana, MD (1), Chung-Chi Wang, PhD (1), Yukiko Yasunobe (1), Masaaki Isaka, PhD (1), Minoru Tanaka, PhD (1) Yoshihiro Maekawa, MD, PhD (1), Yasushi Takeya, MD, PhD (1), Koichi Yamamoto, MD, PhD (1), Hiromi Rakugi, MD, PhD (1) - (1) Geriatric Medicine, Osaka University Graduate School of Medicine, Osaka, (Japan)
- P46 A case-control study on hemoglobin changes and transfusion requirement after hip fracture in frail nursing home residents compared with community dwelling older people**
Kareann SF Khaw MBBS (1,2), Clare McNally MP (Dent) (2,3), Pazhvoor Shibu MBBS (1,2), Solomon CY Yu, MBBS PhD (1,2), Mellick Chehade, MBBS PhD (4), Renuka Visvanathan, MBBS PhD (1,2) (1) Aged and Extended Care Services, The Queen Elizabeth Hospital, Central Adelaide Local Health Network (2) Adelaide Geriatrics Training and Research with Aged Care (G-TRAC) Centre, School of Medicine, University of Adelaide, Adelaide, South Australia, Australia (3) School of Dentistry, University of Adelaide, Adelaide, South Australia, Australia (4) Discipline of Orthopaedics and Trauma, School of Medicine, University of Adelaide, South Australia, (Australia)
- P47 Wide range evaluation of the cognitive and physical performance in the pensioners**
Olena Tomarevska, MD, PhD, Oleksandr Poliakov, MD, PhD Institute of Gerontology by D.F. Chebotarev of National Academy of Medical Sciences, Kiev, (Ukraine)
- P48 The prevalence of frailty in New Zealand dialysis patients using the Edmonton Frailty Scale and Fried Frailty Scale**
Katherine Bloomfield, (1,2) Janak de Zoysa (2,3) Sharon Dixon (2) - (1) Department of Geriatric Medicine, Waitemata District Health Board, Auckland, New Zealand; (2) Department of Medicine, University of Auckland, Auckland, New Zealand; (3) Department of Renal Medicine, Waitemata District Health Board, Auckland, (New Zealand)
- P49 The Relationship between Sarcopenia and Pulmonary Function in Older People**
Solomon Yu PhD (1,2), Renuka Visvanathan, PhD (1,2) - (1) Centre of Research Excellence: Frailty Trans-disciplinary Research to Achieve Healthy Aging, University of Adelaide, South Australia. (2) Adelaide Geriatrics Training and Research with Aged Care (GTRAC) Centre, School of Medicine, University of Adelaide. (Australia)
- P50 The Association between Baseline Frailty and Postoperative Complications, Delirium, and Functional Status Change after Cardiac Surgery**
Antonio Graham Jeremy Walston, Emily Ledford, Laura Max, Charles Hogue, Charles Brown - Johns Hopkins School of Medicine - Elkridge (USA)
- P51 Prevalence of Sarcopenia and Malnutrition in Acutely Ill Hospitalized Older Adults**
Rachel R. Deer, PhD and Elena Volpi, MD, PhD Sealy Center on Aging, University of Texas Medical Branch, Galveston, TX, (USA)
- P52 Sensitivity and specificity of the domains of frailty assessment tools in clinical settings**
Checa M MD (1-2), Camicero J.A. PhD (1), Gonzáles J. MD (1-2), Ballesteros M. MD, MSc (1-2), MD Palumbo C. MD (1) Solano J.J. MD (3), Bernabei R. MD, PhD, Prof (4), Sinclair A. MD, PhD, Prof (5), Scuteri A. MD (6), Rodríguez Mañas L. MD, PhD, Prof (1-2) (1). Fundación para la Investigación Biomédica del Hospital Universitario de Getafe. Madrid (Spain). (2). Geriatric Department. Hospital Universitario de Getafe. Madrid (Spain). (3). Hospital Monte Naranco. Asturias (Spain). (4). Università Cattolica del Sacro Cuore. Milano (Italy). (5). Diabetes Frail Ltd. (United Kingdom). (6). San Raffaele Pisana. Roma (Italy).
- P53 A randomized, placebo-controlled trial to evaluate the efficacy and safety of BIO101 on Sarcopenic Obesity.**
Waly Diah Biophytis, Romainville, France. Philippe Guillet1 ; Philippe Dupont1 ; Anne-Sophie Foucault1 ; René Lafont 1,2 ; Stanislas Veillet1.1. Biophytis, Romainville, France. 2. Sorbonne Universités, Université Pierre et Marie Curie, IBPS, 7 quai Saint Bernard, 75005 Paris. France.
- P54 A comprehensive validation of frailty assessment tools to screen and diagnose frailty in different clinical and social settings**
Javier M. MD (1), Palumbo C. MD (1), Ballesteros M. MD (1), Checa M. MD (1-2), Camicero J.A. PhD (1), Vellas B. MD, PhD, Prof (3), Cesari M. MD, PhD, Prof (3), Bernabei R. MD, PhD, Prof (4), Landi F. MD, PhD, Prof (4), Gzodicki T. MD, PhD, Prof (5), Katoch A. MD (5), Pamicka A. MD (5), Sinclair A. MD, PhD, Prof (6), Rodríguez Mañas L. MD, PhD, Prof (1) - (1). Fundación para la Investigación Biomédica del Hospital Universitario de Getafe. Madrid (Spain). (2). Geriatric Department. Hospital Universitario de Getafe. Madrid (Spain). (3). Centre Hospitalier Universitaire de Toulouse (France). (4). Università Cattolica del Sacro Cuore. Milano (Italy). (5). Jagiellonian University Medical College. Krakow (Poland). (6) Diabetes Frail Ltd. (UK).
- P55 The frail clinic project: sample characteristics and frailty prevalence in different clinical settings.**
Palumbo C MD (1), Gonzáles J. MD (1-2), Checa M. MD (1-2), Camicero J.A. PhD (1), Solano J.J. MD (3), Bernabei R. MD, PhD, Prof (4), Sinclair A. MD, PhD, Prof (5), Scuteri A. MD, PhD, Prof (6), Rodríguez Mañas L. MD, PhD, Prof (1-2) - (1). Fundación para la Investigación Biomédica del Hospital Universitario de Getafe. Madrid (Spain). (2). Geriatric Department. Hospital Universitario de Getafe. Madrid (Spain). (3). Hospital Monte Naranco. Asturias (Spain). (4). Università Cattolica del Sacro Cuore. Milano (Italy). (5). Diabetes Frail Ltd. (United Kingdom). (6). San Raffaele Pisana. Roma (Italy).
- P56 Fragmentation of sedentary time and its association with total energy expenditure, body composition and functional tests in Frail and Non Frail older adults.**
Ferriolli, E. Pessanha, F.P.A.S (1) - Primeri, K. (1) Fascini, P.G. (1) Alves, N.M.C. (1) Carneiro, J.A.O (2) Marchesi, J.L.S (1) Dos Santos, A.F.J (1) Lima, N.K.C (1) Moriguti, J.C (1) - (1) Division of General Internal Geriatric Medicine, Department of Clinical Medicine, Ribeirão Preto Medical School, University of São Paulo, / São Paulo - (2) Dept of Health, State University of Southwest Bahia, UESB, Jequié / Bahia (Brazil)
- P57 Feasibility of tools for screening and diagnosis frailty**
Gonzales J. MD (1-2), Checa M. MD (1-2), Palumbo C. MD (1), Camicero J.A. PhD (1), Solano J.J. MD (3), Bernabei R. MD, PhD, Prof (4), Sinclair A. MD, PhD, Prof (5), Scuteri A. MD (6), Prof (7), Rodríguez Mañas L. MD, PhD, Prof (1-2) (1) Fundación para la Investigación Biomédica del Hospital Universitario de Getafe. Madrid (Spain). (2). Geriatric Department. Hospital Universitario de Getafe. Madrid (Spain). (3). Hospital Monte Naranco. Asturias (Spain). (4). Università Cattolica del Sacro Cuore. Milano (Italy). (5). Diabetes Frail Ltd. (United Kingdom). (6). San Raffaele Pisana. Roma (Italy).
- P58 Is Follow up Time Misleading Clinicians about Body Composition Changes in Men and Women Aged 70 Years and over?**
El Hajj Boutros Guy, BSc(c) (1,2,3) (1) Département des Sciences de l'Activité Physique, Université du Québec a Montreal, Montreal, Canada. (2) Centre de recherche de l'UQGM, Université de Montreal, Montreal, Canada. (3) Groupe de recherche en Activités Physiques Adaptées, UQAM, Montreal, Canada. De Souto Barreto Philippe, PhD, (4,5) Cesari Matteo, MD; (4,5) Andieu Sandrine, PhD, (4,5), Waters Debra Lynn, PhD, (6), Vellas Bruno, MD, (4,5), Rolland Yves, MD, (4,5), Aubertin-Leheudre Mylene, PhD, (1,2,3) (1) Département des Sciences de l'Activité Physique, Université du Québec a Montreal, Montreal, Canada. (2) Centre de recherche de l'UQGM, Université de Montreal, Montreal, Canada. (3) Groupe de recherche en Activités Physiques Adaptées, UQAM, Montreal, Canada. (4) Gerontopole de Toulouse, Institut du Vieillessement, Centre Hospitalo-Universitaire de Toulouse, Toulouse, France. (5) UMR INSERM 1027, University of Toulouse III, Toulouse, France. (6) University of Otago, Department of Medicine and School of Physiotherapy, Dunedin, New Zealand
- P59 Impact of 12-week power training on muscle function in elderly men according to their IGF1/IGFBP3 status**
Guy El Hajj Boutros BSc(c) 1,2,3 - (1) Département des Sciences de l'Activité Physique, Université du Québec à Montréal, Montréal (Qc), Canada; (2) GRAPA, Université du Québec à Montréal, Montréal (Qc), Canada; (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montréal (Qc), Canada. Charlotte H Pion, PhD(c) 1,2,3; Maude C Dulac, MSc(c) 1,2,3; Jean-Philippe Leduc - Gaudet, MSc(c) 1,2,3; Livia Pinheiro-Carvalho PhD(c) 1,2,3; Marc Bélanger, PhD 1,2,3; Stéphanie Chevalier, PhD 4; Gilles Goupillou, PhD 1,2,3; José A Morais, MD 4; Pierrette Gaudreau, PhD 5; Mylène Aubertin-Leheudre, PhD 1,2,3 (1) Département des Sciences de l'Activité Physique, Université du Québec à Montréal (Qc), Canada - (2) GRAPA, Université du Québec à Montréal, Montréal (Qc), Canada - (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montréal (Qc), Canada - (4) McGill University Health Centre-Research Institute and Division of Geriatric Medicine, McGill University, Montréal (Qc), Canada - (5) Centre de Recherche du Centre Hospitalier Universitaire de Montréal and Département de médecine, Université de Montréal, Montréal (Qc), (Canada)
- P60 L-arginine delays the onset of muscular dystrophy**
Gawiyu Danialou PhD Royal Military College Saint-Jean, Saint-Jean-sur-Richelieu, Quebec, (Canada)
- P61 Improvement of behavioral and psychological symptoms of dementia (BPSD) and higher caregiver's recognition of the response change in cognitive frailties by comprehensive standardized care methodology**
Mio Ito, RN. PhD. Department of Geriatric Research, Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan Miwako Honda MD. Division of Geriatric Research, National Hospital Organization Tokyo Medical Center, Tokyo, (Japan)

- P62 The matter of handgrip strength cut off points for sarcopenia definition**
Clara Helena Gonzalez-Correa MD, PhD (1), Research Group on Bioelectrical Impedance, Research Group on Nutrition, Metabolism and Food Safety Universidad de Caldas-Manizales-Colombia Ana Millena López-Salazar (2) MD, Geriatrician. Research group on Gerontology and Geriatrics Universidad de Caldas-Manizales-Colombia - David Gonzalez-Gonzalez (3) MD, Geriatrician Research group on Gerontology and Geriatrics, Universidad de Caldas-Manizales- (Colombia)
- P63 Improvement of behavioral and psychological symptoms of dementia (BPSD) and higher caregiver's recognition of the response change in cognitive frailties by comprehensive standardized care methodology**
Mio Ito, RN. PhD. Department of Geriatric Research, Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan Miwako Honda MD. Division of Geriatric Research, National Hospital Organization Tokyo Medical Center, Tokyo, (Japan)
- P64 The impact of physical exercise program of moderate intensity upon neuroendocrine axis, myoartokinetic system and clinicofunctional parameters in elderly patients**
Cristian Romeo Revnic MD, Ph.D (1), UMF "Carol Davila" Cardiology Department, Bucharest, Romania Adriana Sarah Nica MD, Ph.D (2) Catalina Pena, MD, Ph.D (3), Floarea Revnic, BSc (KCI London), Ph.D. (4), Silviu Voinea MD, Ph.D (5), Bogdan Paltineanu MD, Ph.D (6) - (2) Rehabilitation Department, UMF "Carol Davila", Bucharest Romania (3) Biology of Aging Department, NIGG "Ana Aslan", Bucharest, Romania (4) Biology of Aging Department NIGG "Ana Aslan" Bucharest Romania (5) Oncology Department, UMF "Carol Davila", Bucharest, Romania, (6) Sanitary Management Department, UMF Tg. Mures, (Romania)
- P65 Assessment of Postural Control Complexity in the Frailty Syndrome before and after the execution of a functional task**
Anielle C. de M. Takahashi (1); Verena de V. B. Carmelo (1); Marcele S. S. Buto (1); Aparecida M. Catai (1); Alberto Porta (2) - (1) Department of Physiotherapy, Federal University of São Carlos, São Paulo, Brazil; (2) Department of Biomedical Sciences for Health, University of Milan, Milan, (Italy)
- P66 Sarcopenia and its associated factors in Iranian older individuals: Results of SARIR study**
Gita Shafiee Ramin Heshmat¹ *, Rezvan Hashemi², Ahmadreza Dorosty Motlagh³, Parvin Pasalar⁴, Ahmad Esmailzadeh⁵, Fereydoun Siassi⁶, Bagher Larjani⁴, (1) Chronic Diseases Research Center, Endocrinology and Metabolism Population Sciences Institute, Tehran University of Medical Sciences, Tehran, Iran, (2) School of nutritional sciences and dietetics, and Ziaean hospital, Tehran university of medical science, Tehran, Iran (3) School of nutritional sciences and dietetics, Tehran university of medical science, Tehran, Iran (4) Endocrinology & Metabolism Research Center, Endocrinology and Metabolism Clinical Sciences Institute, Tehran University of Medical Sciences, Tehran, Iran (5) Department of community nutrition, school of nutrition and food science, food security Research center, Isfahan University of Medical Sciences, Isfahan, Iran (6) Department of nutrition and biochemistry, Faculty of public health, Tehran University of Medical Sciences, Tehran, (Iran)
- P67 Does excitatory brain stimulation enhance elbow flexor muscle strength in the elderly?**
Kentaro Oki PhD (1,2), Leatha A. Clark DPT (1,3), Shinichi Amano PhD (1,4), Rachel Clift RN (4), Timothy D. Law DO (1,3,4,5), Brian C. Clark PhD (1,2,5) (1) Ohio Musculoskeletal & Neurological Institute (OMNI) at Ohio University (2) Department of Biomedical Sciences at Ohio University (3) Department of Family Medicine at Ohio University (4) Clinical & Translational Research Unit at Ohio University (5) Department of Geriatric Medicine at Ohio University (USA)
- P68 Swallowing Function and Nutritional Status in Community-dwelling Elderly: Comparison With Healthy Young Adults**
Jaewon Beom, MD (1), Seung-chan Ahn, MD (1), Sungju Jee, MD (1), Minwoo Choi, OT (1), Dong Jun Park, PhD (2), Kang Hee Cho, MD, PhD (1) - (1) Department of Rehabilitation Medicine, Chungnam National University Hospital, Chungnam National University School of Medicine, Daejeon, Republic of Korea - (2) Korea Food Research Institute, Seongnam, Gyeonggi-do, (Republic of Korea)
- P69 Frailty and genetic longevity markers in centenarians offspring; Preliminary results of a case-control study in La Ribera county (Valencia, Spain)**
 Belenguer-Varea, Ángel (1,2); Avellana Zaragoza, Juan Antonio (1,2) **Tarazona-Santabalbina**, Francisco José (1) Sanchez Aguilár, Paula (2); Viña, José (3). (1) Hospital Universitario de la Ribera. (2) Universidad Católica e Valencia San Vicente Mártir. (3) Departamento de Fisiología. Facultad de Medicina. Universidad de Valencia. (Spain)
- P70 The effect of a multimodal exercise program on function and cognition in elderly frail patients admitted in an Acute Geriatric Unit**
Alvaro Casas Herrero. MD, PhD (1). Department of Geriatrics. Complejo Hospitalario de Navarra. IdISNA. Navarra Institute for Health Research, Pamplona, Spain. (IdISNA) Pamplona, Spain - Mikel Izquierdo PhD (2), Fabricio Zambom Ferraresi PhD (3), Javier Alonso Renedo MD (4), Mikel López-Sáez de Asteasu (5) Nicolás Martínez Velilla MD, PhD (6). (2), (5) Department of Health Sciences, Public University of Navarra, Pamplona - (3) Navarrabiomed-Fundación Miguel Servet, Pamplona, Spain. (4) Department of Geriatrics. Complejo Hospitalario de Navarra IdISNA. Navarra Institute for Health Research, Pamplona, Spain. (IdISNA) Pamplona, Spain - (6) Head of the Geriatrics Department. Complejo Hospitalario de Navarra. IdISNA. Navarra Institute for Health Research, Pamplona, Spain. (IdISNA) Pamplona, Spain. Red de Investigación en Servicios Sanitarios en Enfermedades Crónicas (REDISSEC), Pamplona, (Spain)
- P71 Additive effect of dynapenia and abdominal obesity on blood pressure, lipid and glucose metabolic profile, metabolic syndrome and cardiovascular diseases in older adults**
Tiago da Silva Alexandre, PhD (1), Ligiana Pires Corona, PhD (2), Tábatta Renata Pereira de Brito, PhD (3), Daniela Pires Nunes, PhD (4), Mylène Aubertin-Leheudre, PhD (5), Livia Pinheiro Carvalho, MSc (6), Jair Lício Ferreira Santos, PhD (7), Yeda Aparecida de Oliveira Duarte, PhD (8), Maria Lúcia Lebrão, PhD (9) (1) Gerontology Department, Federal University of São Carlos, São Carlos, Brazil. (2) Faculty of Applied Sciences, University of Campinas, Campinas, Brazil. (3) Nursing Department, Faculdades Metropolitanas Unidas, São Paulo, Brazil. (4) Nursing Department, Faculdades Metropolitanas Unidas, São Paulo, Brazil. (5) Department of Science of Physical Activity, Montreal, Canada. (6) Physical Therapy Department, Federal University of São Carlos, São Carlos, Brazil. (7) Department of Social Medicine, University of São Paulo, Ribeirão Preto, Brazil. (8) Department of Medical-Surgical Nursing, University of São Paulo, São Paulo, Brazil. (9) Department of Epidemiology, University of São Paulo, São Paulo, (Brazil)
- P72 Prospective analysis of the impact of pretransplant sarcopenia on survival after liver transplantation**
Toshimi Kaido, MD, PhD, Division of Hepato-Biliary-Pancreatic and Transplant Surgery, Department of Surgery, Graduate School of Medicine, Kyoto University, Kyoto, Japan - Yuhei Hamaguchi, MD (1), Shinya Okumura, MD (1), Atsushi Kobayashi, MD (1), Shintaro Yagi, MD, PhD (1), Yumiko Tamai (2), Nobuya Inagaki, ND, PhD (2), and Shinji Uemoto, MD, PhD (1) - (1) Division of Hepato-Biliary-Pancreatic and Transplant Surgery, Department of Surgery, Graduate School of Medicine, Kyoto University, Kyoto, Japan - (2) Department of Metabolism and Clinical Nutrition, Kyoto University Hospital, Kyoto, (Japan)
- P73 Prevalence of concomitant bone and muscle wasting in patients from the SarcoPhAge study**
Médée Locquet, M.PH. PhD Student (1), Charlotte Beaudart, M.PH., PhD Student (1), Jean-Yves Reginster, MD, PhD (1), Jean Petermans, MD, PhD (2), Sophie Gillain, MD, PhD Student (2), Adrien Quabron, M.PH. (1), Justine Slomian, M.PH., PhD Student (1), Fanny Buckinx, M.PH., PhD Student (1), Olivier Bruyère, PhD (1) (1) Department of Public Health Sciences, Epidemiology and Health Economics, University of Liège, Liège, Belgium. (2) Geriatric Department, CHU of Liège, Liège, (Belgium)
- P74 Quantity and Quality of Muscle Mass in Urban Chinese Population**
Xianfeng Zhao, PhD, Abbott Nutrition Research and Development, Shanghai, China - Wei Chen, MD, Peking Union Medical College Hospital, Beijing, China - Sheng Ge, MD, No. 6 Affiliate Hospital of Shanghai Jiaotong University, Shanghai, China - Birong Dong, West China Hospital, Chengdu, (China)
- P75 Defining frailty profiles in hospitalized elderly patients: Results from the REPOSI study**
Maura Marcucci, MD, MSc, Geriatric Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan & Department of Clinical Sciences and Community Health, University of Milan, Milan, Italy - Carlotta Franchi, PhD (1), Elena Colombo, MD (2,3), Ilaria Ardoino, PhD (3), Paola Santalucia, MD (4), Alessandro Nobili, MD (1), Pier Mannuccio Mannucci, MD (4), Daniela Mari, MD (2,3) (1) Department of Neuroscience, IRCCS - Istituto di Ricerche Farmacologiche "Mario Negri", Milan, Italy (2) Geriatric Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy (3) Department of Clinical Sciences and Community Health, University of Milan, Milan, Italy (4) Scientific Direction, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, (Italy)
- P76 Functional performances on admission predicts elderly patients in-hospital falls**
Marie-Claude Audet, MD (1), Melany Hars, PhD (1) Francois Herrmann, MD (1,2), Jean-Luc Remy, MD (2), Gabriel Gold, MD (3), Serge Ferrari, MD (1) Andrea Trombetti, MD (1) - (1) Division of Bone Diseases, Department of Internal Medicine Specialties, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland - (2) Division of Geriatrics, Department of Internal Medicine, Rehabilitation and Geriatrics, Geneva University Hospitals and Faculty of Medicine, Geneva, Switzerland (3) Division of Rehabilitation and Internal Medicine, Department of Internal Medicine, Rehabilitation and Geriatrics, Geneva University Hospitals and Faculty of Medicine, Geneva, (Switzerland)
- P77 Gender differences in the relationship between ejection fraction and sarcopenia in elderly patients with heart failure**
Carlos Velandia-Carrillo MD (1), Cadena Sanabria Miguel MD (2), Paul A Camacho MD (3), Daniel D. Cohen PhD (3,4), Juan Fernando Contreras MD (5), Ana María Ospina MD (1), Paula Sánchez MS6. (1) Internal Medicine Resident, Universidad Autónoma de Bucaramanga UNAB, Colombia. (2) Department of Geriatric and Internal Medicine, Universidad Autónoma de Bucaramanga UNAB Fundación Oftalmológica de Santander - FOSCAL, Floridablanca, Colombia. - (3) Department of Research, Fundación Oftalmológica de Santander - FOSCAL, Floridablanca, Colombia. (4) Facultad de Ciencias de Salud, Universidad de Santander (UDES), Bucaramanga, Santander. - (5) Department of Internal Medicine, Fundación Oftalmológica de Santander FOSCAL, Floridablanca, Colombia. (6) Medical Student, Universidad Autónoma de Bucaramanga UNAB, Bucaramanga, Colombia. - Carlos Velandia-Carrillo MD. Internal Medicine Resident, Universidad Autónoma de Bucaramanga UNAB, Colombia. - Cadena Sanabria Miguel MD2, Paul A Camacho MD3, Daniel D. Cohen PhD3,4, Juan Fernando Contreras MD5, Ana María Ospina MD1, Paula Sánchez MS6. - (1) Internal Medicine Resident, Universidad Autónoma de Bucaramanga UNAB, Colombia. (2) Department of Geriatric and Internal Medicine, Universidad Autónoma de Bucaramanga UNAB Fundación Oftalmológica de Santander FOSCAL, Floridablanca, Colombia. (3) Department of Research, Fundación Oftalmológica de Santander - FOSCAL, Floridablanca, Colombia. (4) Facultad de Ciencias de Salud, Universidad de Santander (UDES), Bucaramanga, Santander. (5) Department of Internal Medicine, Fundación Oftalmológica de Santander FOSCAL, Floridablanca, Colombia. (6) Medical Student, Universidad Autónoma de Bucaramanga UNAB, Bucaramanga, (Colombia)
- P78 The Internet of Things (IoT) applied to SPRINT ICT infrastructure**
Gianluca Zia, Francesco Mocci and Luca Carlo Feletti, Caretek, Torino (Italy)
- P79 Correlates of sarcopenia in parkinson's disease**
Davide L. Vetrano, Maria S Pisciotta, Vincenzo Brandi, Maria R Lo Monaco, Alice Laudisio, Graziano Onder, Roberto Bernabei, Giuseppe Zucalà. Catholic University of Rome (Italy)

- P80 Tackling frailty at primary care settings: validation and comparison of three identification tools and use of health care services: baseline results**
Itziar Vergara, Primary Care Research Unit Gipuzkoa, Osakidetza, Health Services Research on Chronic Patients Network (REDISSEC), Biodonostia Health Research Institute, San Sebastian-Donostia, Spain - Itziar Vergara 1,2,3; Francisco Rivas-Ruiz 2,7; Mónica Machón 1,2,3; Ana Díez 3, 4; Eugenio Conteras Fernández 8; Kalliopi Vrotsou 1,2,3; Yolanda de Mesa 8; Andoni Bueno 1, 4; Jazmina Nuñez 1, 4; Alonso Montiel 8; Iñaki Martín-Lesende 5; Carmen Saucedo 8; Estefanía Carrasco 3; Bakarne Aguirre 1; Antonia Nava 8; Gabor Abellan van Kan 6 1. Primary Care Research Unit Gipuzkoa, Osakidetza, San Sebastian-Donostia, Spain 2. Health Services Research on Chronic Patients Network (REDISSEC) 3. Biodonostia Health Research Institute, San Sebastian-Donostia, Spain 4. Beraun Health Center, Comarca Gipuzkoa, Osakidetza, Renteria, Spain 5. San Ignacio Health Center, Osi Bilbao, Bilbao, Spain 6.Gerontopole de Toulouse, INSERM 1027 7. Research Unit, Hospital Costa del Sol, Marbella, Spain 8. Distrito Atención Primaria Costa del Sol, Málaga, Spain
- P81 Preliminary validation of a model for the identification of frail individuals in primary care settings**
Itziar Vergara, Primary Care Research Unit Gipuzkoa, Osakidetza, Health Services Research on Chronic Patients Network (REDISSEC), Biodonostia Health Research Institute, San Sebastian-Donostia, Spain - Andoni Bueno 1, 4; Ana Díez 3, 4; Jazmina Nuñez 1, 4; Mónica Machón 1,2,3; Maider Mateo-Abad 1,3; Itziar Vergara 1,2,3. 1. Primary Care Research Unit Gipuzkoa, Osakidetza, San Sebastian-Donostia, Spain 2. Health Services Research on Chronic Patients Network (REDISSEC), San Sebastian-Donostia, Spain 3. Biodonostia Health Research Institute, San Sebastian-Donostia, Spain 4. Beraun Health Center, Comarca Gipuzkoa, Osakidetza, Renteria, Spain
- P82 The impact of obesity and obesity-dynapenia on skeletal muscle function and markers of mitochondrial metabolism in elderly men**
Nolwenn Joffin PhD,(1,2,3,7,8) 1) Département des Sciences de l'Activité Physique, Université du Québec À Montréal, Montréal (Qc), Canada – (2) GRAPA, Université du Québec À Montréal, Montréal (Qc), Canada – (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal (CRIUGM), Montréal (Qc), Canada. - Charlotte H Pion, PhD(c)2,3,4; Guy El Hajj Boutros BSc(c)1,2,3; Félix Saint-Jean-Pelletier, MSc(c)1,2,3; Maude C Dulac, MSc(c)1,2,3; Marc Bélanger, PhD, 1,2; Stéphanie Chevalier, PhD5; José A Morais, MD5; Pierrette Gaudreau, PhD3,6; Philippe Noirez, PhD1,2,7,8; Gilles Gousspillou, PhD*1,2,3; Mylène Aubertin-Leheudre, PhD*1,2,3 – * These authors jointly supervised and contributed equally to this work.(1) Département des Sciences de l'Activité Physique, Université du Québec À Montréal, Montréal (Qc), Canada – (2) GRAPA, Université du Québec À Montréal, Montréal (Qc), Canada – (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal (CRIUGM), Montréal (Qc), Canada. (4) Département de Biologie, Université du Québec À Montréal, Montréal (Qc), Canada – (5) McGill University Health Centre-Research Institute and Division of Geriatric Medicine, McGill University, Montreal (Qc), Canada – (6) Centre de Recherche du CHUM, département de médecine, Université de Montréal, Montréal (Qc), Canada – (7) Institut de Recherche bioMédicale et d'Epidémiologie du Sport (IRMES), Institut National du Sport et de la Performance (INSEP), Paris, France (8) EA7329, UFR STAPS, Université Paris Descartes, Sorbonne Paris Cité, (France)
- P83 The identification of frailty from nutritional screening tools in community-dwelling elderly.**
Mariana Staut Zukeran, RD; Raphael Ritti Dias (2), PhD, Fabio Gazelato de Mello Franco (2), PhD, Luciana Diniz Nagem Janot de Matos (2), PhD, Maysa Seabra Cendoroglo (1), PhD, Sandra Maria Lima Ribeiro, PhD - Post-Graduation Program in Applied Human Nutrition, University of São Paulo, São Paulo Brazil - Hospital Israelita Albert Einstein, São Paulo, Brazil (3) – Universidade Federal de São Paulo, São Paulo, (Brazil)
- P84 Does mixed training-induced neurophysiological and muscular adaptations differs in elderly men according to their functional level?**
Charlotte H. Pion, PhD(c) (1,3,4), Guy El Hajj Boutros, BSc(c) (2,3,4), François C. Lemieux, MSc (2), Maude C Dulac, MSc (2,3,4), Stéphanie Chevalier, PhD (5), Pierrette Gaudreau, PhD (4,6), Gilles Gousspillou, PhD (2,3,4), José A. Morais, MD, PhD (5), Marc Bélanger, PhD (2,3), Mylène Aubertin-Leheudre, PhD (2,3,4),(1)Département de Biologie, Université du Québec à Montréal, Canada. (2) Département des Sciences de l'Activité Physique, Université du Québec à Montréal, Canada. (3) Groupe de recherche en Activités Physiques Adaptées, Université du Québec à Montréal, Canada. (4) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montréal, Canada. (5) McGill University, Division of Geriatric Medicine, Montreal, Canada. (6) Centre de recherche du CHUM, Département de médecine, Université de Montréal, (Canada)
- P85 Resting Metabolic Rate and Timed Gait in the Health, Aging, and Body Composition Study**
MJ Huisingh-Scheetz MD MPH (1), KWroblewski MS (1), Hue T (2), Newman A (3), Satterfield S (4), Harris T (5), D Schoeller PhD (6) - University of Chicago (1), University of California San Francisco (2), University of Pittsburgh (3), University of Tennessee (4), National Institute on Aging (5), University of Wisconsin-Madison (6) (USA)
- P86 Implementing assessment of cognitive function and frailty into primary care**
Bertrand Fougère, MD, PhD,a,b,* , Stéphane Oustric, MD,b,c, Neda Tavassoli PharmD, PhD,a,d, Bruno Chicoulaa, MD,c, Julien Delrieu, MD,a, Bruno Vellas, MD, PhD,a,b,d and FAP group** - aGérontopôle, Centre Hospitalier Universitaire de Toulouse, Toulouse, France - bInserm UMR1027, Université de Toulouse III Paul Sabatier, Toulouse, France - cDépartement de médecine générale, Université de Toulouse, France - dÉquipe Régionale Vieillesse et Prévention de la Dépendance, Centre Hospitalier Universitaire de Toulouse, (France)
- P87 Does protein supplementation and resistance-type exercise training influence the body composition of sarcopenic obese old men? – A pilot study.**
Anke Heber, PhD (1), Elisabeth Schulte, MA (1), Neele Hörner, MA (3), Katja Stöver, PhD (2), Jo Latsch, MD (1), Klara Brixius, MD (1) (1) Institute of Cardiology & Sports Medicine, Department of Molecular & Cellular Sport Medicine, German Sport University Cologne, Germany (2) Institute of Movement & Sport Gerontology, German Sport University Cologne, Germany (3) Institute of Biochemistry, German Sport University Cologne, (Germany)
- P88 BIA and DEXA agreement for SMI evaluation in sarcopenia diagnosis**
Clara Helena Gonzalez-Correa, PhD, Research Group on Bioelectrical Impedance, Universidad de Caldas-Manizales-Colombia - Pablo Andrés Castaño-Gonzalez, MD, Internist, Research Group on Nutrition and Body Composition, Universidad de Caldas-Manizales-Colombia Felipe Marulanda-Mejía, Geriatrician, Research Group on Geriatrics Gerontology, Universidad de Caldas-Manizales- (Colombia)
- P89 Association between frailty and cognitive impairment among 50 year-old and over adults with human immunodeficiency virus/acquired immunodeficiency syndrome (hiv/aids)**
Alfonso Zamudio MD (1)Avila-Funes, MD, PhD (2,3) Pablo Francisco Belaunzarán (4), Karen Suarez (5),(1) Programme Master and Doctor of Medicine, Dentistry and Health. Master of Health Sciences. National Autonomous University of Mexico (UNAM); Mexico.(2) Head of the Department of Geriatrics, National Institute of Medical Sciences and Nutrition Salvador Zubián; Mexico (3) Univ. Bordeaux, ISPED, Centre INSERM U897, F-33000 Bordeaux, France (4) Department of Infectology National Institute of Medical Sciences and Nutrition Salvador Zubián; Mexico (5) Autonomous University of Veracruz-Villarica (Mexico)
- P90 Vit D deficit Nutritional state and Frailty in Chilean older people**
Cecilia Albala MD, MPH INTA, Universidad de Chile - Lera Lydia(1), Sánchez Hugo (1), Angel Barbara (1), Patricia Arroyo (2), Marquez Carlos (1), Moya Mario (1), Institute of Nutrition and Food Technology, Universidad de Chile - Clinic Hospital Universidad de (Chile)
- P91 Effect Of Withania Somenifera Against Aged Brain Of Mice**
Manju lata 113 Rathore nagar Vaishali nagar, Jaipur 302012 (Jaipur)
- P92 Prevalence of Sarcopenia and associated factors in a sample of older adults community-dwelling located in Brazil's northeast.**
 Carolina Dutra Pinheiro, MPhy (1), **Juliana Fernandes de Souza Barbosa**, PhD Student (2), João Afonso Ruaro, Phd (3), Ricardo Oliveira Guerra, PhD (4) (2) PhD Student, The International Mobility in Aging Study, Department of Physiotherapy, Universidade Federal Rio Grande do Norte, Natal, Brazil (1) Master in Physiotherapist, Department of Physiotherapy, Universidade Federal Rio Grande do Norte, Natal, Brazil - (3)Assistant Professor, Department of Physiotherapy, Universidade Estadual do Centro Oeste, Guarapuava, Paraná, Brazil - (4) Department of Physiotherapy, Universidade Federal Rio Grande do Norte, Natal, (Brazil)
- P93 Effects of γ -aminobutyric acid-enriched fermented sea tangle on brain derived neurotrophic factor-related muscle growth and lipolysis in middle aged women**
Byeong-hwan Jeon, PhD (1), Wook-chul Choi, MS (2), Storm Reid, MS (3) Sports and health, Kyungsoong University, Republic of Korea (1)Byeong-hwan Jeon, PhD, Sports and health, Kyungsoong University, Republic of Korea (2)Wook-chul Choi, MS, Sports and health, Kyungsoong University, Republic of Korea (3)Storm Reid, MS, Sports and health, Kyungsoong University, (Republic of Korea)
- P94 The impact of nutrition guidelines for the caregivers of the elderly on their healthy living in ondo west, nigeria.**
Jerome Abiola Oloma,Dept.of Hospitality, Tourism &PR Management, Vanderbijlpark, South Africa. Oluseun Arjo PhD,Dept. of Human Nutrition,University of Ibadan,(Nigeria)
- P95 Therapeutic potentials of eccentric exercises for age related muscle atrophy**
Jae-Young Lim, MD, PhD Associate Professor Department of Rehabilitation Medicine Seoul National University College of Medicine Seoul National University Bundang Hospital (Republic of Korea)
- P96 Aging augments the effects of pulmonary influenza infection on weight loss, mobility performance, inflammation and induction of muscle degradation genes.**
 Jenna M Bartley, PhD (1,2), Sarah Pan, BS (1), Spencer Keilich, BS (1), Jacob Hopkins, BS, CSCS (1,2), **George A. Kuchel**, MD (1), and Laura Haynes, PhD (1,2) - (1)UConn Center on Aging and (2) Department of Immunology, University of Connecticut Health Center, Farmington, CT 06030
- P97 IGF-1 as cross-road between nutritional and hormonal pathways in hospitalized older adults: an ancillar study of glisten cohort**
Marcello Maggio (1,2) (1)Dipartimento di Medicina Clinica e Sperimentale, Università di Parma, Parma, Italia. (2) Dipartimento Geriatrico-Riabilitativo, Azienda Ospedaliero-Universitaria di Parma, Parma, Italia. Fulvio Lauretani (2), Alberto Fisichella (2), Marco Mantovani (2), Andrea Ticinesi (1), Francesco Corica (3), Francesco Landi (4), Stefano Volpato (5), Gian Paolo Ceda (1,2) - (1) Dipartimento di Medicina Clinica e Sperimentale, Università di Parma, Parma, Italia. - (2) Dipartimento Geriatrico-Riabilitativo, Azienda Ospedaliero-Universitaria di Parma, Parma, Italia. (3) Dipartimento di Medicina Clinica e Sperimentale, Università di Messina, Messina, Italia. (4) Dipartimento di Geriatria, Neuroscienze e Ortopedia, Università Cattolica del Sacro Cuore, Roma, Italia. (5) Dipartimento di Scienze Mediche, Università di Ferrara, Ferrara, Italia.
- P98 The Relationship of endogenous plasma β Hydroxy- β Methyl Butyrate (HMB) concentrations to age and total appendicular muscle mass in humans**
Rebecca Kuriyan 1*, Deepa P Lokesh 1, Sumithra Selvam 1, Jayakumar J 1, Mamatha G Philip 1, Sathyavageswaran Shreeram 2, Anura V Kurpad 1 - 1Division of Nutrition, St John's Research Institute, St John's National Academy of Health Sciences, Bangalore, India. - 2 Abbott Nutrition Research and Development, 20 Biopolis Way, #09-01/02 Centros Building, Singapore 138668. - Rebecca Kuriyan, Division of Nutrition, St John's Research Institute, St John's National Academy of Health Sciences, Bangalore, 560034, India.

- P99 Age-related loss of muscle quality: impact of voluntary physical activity**
Maude C Dulac, MSc(c)1,2,3 – (1) Département des Sciences de l'Activité Physique, Université du Québec à Montréal, Montréal (Qc), Canada; (2) GRAPA, Université du Québec à Montréal, Montréal (Qc), Canada; (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montréal (Qc), Canada. Charlotte H Pion, PhD(c)2,3,4, Gilles Gouspillou, PhD1,2,3 Guy El Hajj Boutros, BSc(c)1,2,3 Stéphanie Chevalier, PhD5, Marc Bélanger, PhD1,2,3 Mélanie Plourde, PhD6, Russel T Hepple, PhD7, José A Morais, MD5, Mylène Aubertin-Leheudre, PhD1,2,3 – (1) Département des sciences de l'Activité Physique, Université du Québec à Montréal, Montréal (Qc), Canada - (2) GRAPA, Université du Québec à Montréal, Montréal (Qc), Canada - (3) Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montréal (Qc), Canada - (4) Département de Biologie, Université du Québec à Montréal, Montréal (Qc), Canada - (5) McGill University Health Centre-Research Institute, Division of Geriatric Medicine, McGill University, Montréal (Qc), Canada - (6) Centre de Recherche de l'Institut Universitaire de Gériatrie de Sherbrooke, Université de Sherbrooke (IUGS), Sherbrooke (Qc), Canada - (7) Department of Kinesiology and Physical Education, McGill University, Montreal (Qc), Canada.
- P100 Impact of a medication review to optimize prescriptions in primary care**
Elodie Magre, PharmD1, **Cecile McCambridge**, PharmD1, **Charlene Cool** PharmD1, **Soraya Qassemi** PharmD1, **Isabelle Recoche** PharmD1, **Frederic Farbos** PharmD1, **Philippe Cestac**, PharmD, PhD1, **Sandrine Sourdet** MD2, **B. Vellas** MD, PhD2 (1) Department of Pharmacy, Toulouse University Hospital, Toulouse, France (2) Department of Geriatric Medicine, Toulouse University Hospital, Toulouse, France
- P101 Drugs and frailty: analysis of potentially inappropriate prescriptions and anticholinergic drugs in a population of old people in France**
M Herr1,2, **Helen Grondin**1, **S Andrieu**2, **JJ Arnieu**3, **JM Robine**4, **J Ankr**1 1 INSERM UMR 1168, Université Versailles St-Quentin-en-Yvelines, Montigny le Bretonneux and Villejuif 2 INSERM UMR 027, Université Toulouse 3, Toulouse 3 AG2R La Mondiale, Research Department, Individual Retirement and IARD, Paris, France 4 INSERM U988 and U1198 4, EPHE, Paris and Montpellier
- P102 Association between myocyte quality control signaling and sarcopenia in older hip-fractured patients**
Emanuele Marzetti, MD, PhD1, 1) Department of Geriatrics, Neurosciences and Orthopedics - Catholic University of the Sacred Heart - Maria Lorenzi, PhD1, Amerigo Menghi, MD, PhD1, Francesco andri, MD, PhD1, Riccardo Calvani, PhD1- (1) Department of Geriatrics, Neurosciences and Orthopedics - Catholic University of the Sacred Heart (Italy)
- P103 Age-related trajectories of muscle mass and function in Italian community-dwellers visiting Milan EXPO: results from the VIP study.**
Matteo Tosato, MD, PhD1 (1) Department of Geriatrics, Neurosciences and Orthopedics – Catholic University of the Sacred Heart, Rome, Italy Riccardo Calvani, PhD1, Emanuele Marzetti, MD, PhD1, iulia Savera, BSc1, Agnese Collamati, MD1, Alex Sisto, BSc1, Elena Ortolani, MD1, Anna Maria Martone, MD1, Francesco Landi, MD, PhD1 (1) Department of Geriatrics, Neurosciences and Orthopedics Catholic University of the Sacred Heart (Italy)
- P104 Assessing Sarcopenia in older hospitalized patients. Feasibility and prevalence estimates of the EWGSOP algorithm.**
Francesco Landi, MD, PhD1 (1) Department of Geriatrics, Neurosciences and Orthopedics - Catholic University of the Sacred Heart, Rome, Italy/Riccardo Calvani, PhD1, Pasquale Abete, MD, PhD2, Giuseppe Bellelli, MD, PhD3, Mario Bo, MD, PhD4, Antonio Cherubini, MD, PhD5, Francesco Corica, MD, PhD6, Marcello Maggio, MD, PhD7, Mauro Zamboni, MD, PhD8, Stefano Volpato, MD, PhD9 1) Department of Geriatrics, Neurosciences and Orthopedics - Catholic University of the Sacred Heart, Rome, Italy (2) Department of Translational Medical Sciences, University of Naples "Federico II", Italy. (3) Department of Health Sciences, University of Milano-Bicocca and S. Gerardo Hospital, Geriatric Clinic, Monza, Italy (4) SCU Geriatria e Malattie Metaboliche dell'Osso, Città della Salute e della Scienza, Torino, Italy (5) Geriatrics and Emergency Care, Italian National Research Centre on Aging, Ancona, Italy (6) Department of Clinical and Experimental Medicine, University of Messina, Messina, Italy. (7) Department of Clinical and Experimental Medicine, Section of Geriatrics, University of Parma, Italy - (8) Department of Medicine, Section of Geriatrics, University of Verona, Verona, Italy. - (9) Department of Medical Science, University of Ferrara, (Italy)
- P105 Animal-derived dietary protein, muscle mass and function in community-dwellers visiting Milan EXPO: results from the VIP study**
Riccardo Calvani, PhD1(1) Department of Geriatrics, Neurosciences and Orthopedics - Catholic University of the Sacred Heart, Rome, Italy Emanuele Marzetti, MD, PhD (1), Matteo Tosato, MD, PhD (1), Giulia Savera, BSc (1), Agnese Collamati, MD (1), Alex Sisto, BSc (1), Elena Ortolani, MD (1), Anna Maria Martone, MD (1), Francesco Landi, MD, PhD (1) (1)Department of Geriatrics, Neurosciences and Orthopedics Catholic University of the Sacred Heart (Italy)
- P106 Isokinetic muscle strength in Frail and Non Frail older adults and its association with frailty physical criteria.**
Ferrioli E, (1) Pessanha, F.P.A.S (1) Alves, N.M.C. (1) Pfrimer, K. (1) Marques, L.T. (2) Angeluni, M.O. (2) Iosimuta, N.C.R. (2) Junior, R.F. (2) Moriguti, J.C (1) Lima, N.K.C (1) De Abreu, D.C.C (2) - (1) Division of General Internal Geriatric Medicine, Department of Clinical Medicine, Ribeirão Preto Medical School, University of São Paulo, Ribeirão Preto / São Paulo (2) Program in Rehabilitation and Functional Performance, University of São Paulo, Ribeirão Preto / São Paulo (Brazil)
- P107 Frail elderly and low velocity execution in functional tasks of daily living**
Natalia Bustamante-Ara, PhD (1), Carlos Moreno (2), Caudio Araneda (2), Marcelo Castillo PhD (2). (1).Advanced Center for Chronic Diseases (ACCDIS) - Public Health Department, Pontificia Universidad Católica de Chile, Chile. (2) Sciences of Physical Activity Department, Universidad Católica del Maule, (Chile)
- P108 Monitoring movement jerkiness and motor planning deficits using portable tools: A preliminary result**
Shinichi Amano, PhD (1,2) Leatha Clark, DPT, MS(1,3) Timothy D. Law, DO. MBA (1,2,3,4) Rachel Clift. MSN, RN (2) S. Lee Hong, PhD.(1,5) and Brian C. Clark, PhD. (1,4,5) (1) Ohio Musculoskeletal and Neurological Institute (ONMI) at Ohio University, Athens, OH, USA; (2)Clinical and Translational Research Unit at Ohio University, Athens, OH, USA; (3)Department of Family Medicine at Ohio University, Athens, OH, USA; (4)Department of Geriatric Medicine at Ohio University, Athens, OH, USA; (5)Department of Biomedical Sciences at Ohio University, Athens, OH, (USA)
- P109 A Multi-faceted Intervention to Slow Frailty in Primary Care: The TRIAGE (Targeting, Referring, Intervening to Promote Healthy AGEing) Study**
Courtney Kennedy, PhD (1), Larkin Lamarche, PhD (2), Alexandra Papaioannou, MD (1,3), Doug Oliver MD (2), George Ioannidis, PhD (1), Sarah Raddiffe, MSc (1), Ruta Valaitis, PhD (4), Lisa Dolovich, PhD (2) - (1)Geriatric Education and Research in Aging Sciences (GERAS) Centre, Hamilton Health Sciences, Hamilton, Canada - (2)Department of Family Medicine, McMaster University, Hamilton, Canada - (3) Department of Medicine, Division of Geriatrics, McMaster University, Hamilton, Canada - (4)School of Nursing, McMaster University, Hamilton, (Canada)
- P110 The relationship between T-cell responses to cytomegalovirus (CMV), circulating markers of inflammation, and frailty in HIV- and HIV+ men in the Multicenter AIDS Cohort Study (MACS)**
Joseph B Margolick, MD, PhDDepartment of Molecular Microbiology and Immunology, The Johns Hopkins University Bloomberg School of Public Health, Baltimore, Maryland, Jay H Bream, PhD(2), ricia Nilles, MS(3), Huifen Li, PhD(4), Susan Langan, MS, MPH(5), Sean X Leng, MD, PhD6 - (2,3,5) Department of Molecular Microbiology and Immunology, The Johns Hopkins University, Baltimore, Maryland,(4,6) Department of Medicine, The Johns Hopkins University School of Medicine, Baltimore, Maryland.(USA)
- P111 Physical Frailty, Cognitive Frailty, and the Risk of Dementia in the Gait and Brain Study.**
Manuel Montero-Odasso, MD, PhD (1,2), Brittany Barnes, MSc (1), Mark Speechley, PhD (1,2), Susan Muir-Hunter, PT, PhD (1,2), Tim Doherty, MD, PhD (3), Gustavo Duque, MD, PhD (4), Karen Gopaul, MSc1, Anam Islam, MSc1, Luciano Sposato, MD, MBA (5), Alvaro Casas-Herrero, MD, PhD (6), Micheal Borrie, MBBS (1,2), Richard Camicioli, MD (7), Jennie Wells, MD (1,2) (1)Gait and Brain Lab, Parkwood Hospital, Lawson Health Research Institute; (2) Schulich School of Medicine & Dentistry, Department of Medicine and Division of Geriatric Medicine, University of Western Ontario, London, Ontario, Canada; (3) Department of Physical Medicine and Rehabilitation, Schulich School of Medicine & Dentistry, University of Western Ontario London, Ontario, Canada; (4) Australian Institute for Musculoskeletal Sciences, University of Melbourne, Melbourne, Australia; (5) Department of Clinical Neurological Sciences, University of Western Ontario, London, Ontario, Canada; (6) Department of Geriatrics, Complejo Hospitalario de Navarra, Pamplona, Navarra, Spain; (7) Department of Medicine, University of Alberta, Edmonton, Alberta, (Canada)
- P112 1H NMR and ultrastructural studies of skeletal muscle from elderly patients with osteoarticular and degenerative pathology**
Cristian Romeo Revnic,MD.Ph.D (1),UMF“ Carol Davila “ Cardiology Department,Bucharest,Romania Catalina Pena,MD.PhD (2),Speranta PradaMD.PhD (3), Aslan“,Floarea Revnic,BSc(KCI London).PhD.(4),Gabriel PradaMD PhD(5) - (2) Biology of Aging Department,NIGG“Ana Aslan“,Bucharest,Romania(3)Pharmacology Department NIGG“Ana Aslan“(4)Biology of Aging Department,NIGG“AnaAslan“,Bucharest,Romania,(5)Gerontology and Geriatrics Department,UMF“ Carol Davila“,Bucharest,(Romania)
- P113 1H NMR studies concerning the behaviour of hexagonal lattice of myofibrillaments during contractile activity in rat heart muscle of different ages**
Cristian Romeo Revnic,MD.Ph.D(1),UMF“ Carol Davila “ Cardiology Department,Bucharest,Romania Catalina Pena,MD.PhD(2),Speranta PradaMD.PhD(3), Aslan“,Floarea Revnic,BSc(KCI London).PhD.(4),Gabriel PradaMD PhD(5) (2) Biology of Aging Department,NIGG“Ana Aslan“,Bucharest,Romania(3)Pharmacology Department NIGG“Ana Aslan“(4)Biology of Aging Department,NIGG“Ana Aslan“,Bucharest,Romania,(5)Gerontology and Geriatrics Department,UMF“ Carol Davila“,Bucharest,(Romania)
- P114 Frailty By SOF criteria and Cachexia: Data from Sarcopenia in Older adults with Heart Failure - SACI study**
Alberto Frisoli Jr; MD,PhD - CardioGeriatric Section - Cardiology Division- Federal University of São Paulo - Fabiola Martin, MS; Antonio Carlos de Camargo Carvalho, MD, PhD , CardioGeriatric Section Cardiology Division - Federal University of São Paulo (Brazil)
- P115 The investigation of sarcopenia still requires much debate**
Natasha Aparecida Grande de França, MSc (1), Barbara Santarosa Emo Peters, PhD (1), Patricia Couceiro Santos, BSc (1) , Marcela Menah de Sousa Lima, Elena Beatris - Curatella, Regina Mara Fisberg, PhD1, Lúgia Araújo Martini, PhD1 (1)Department of Nutrition, School of Public Health, Sao Paulo University, Sao Paulo, (Brazil)
- P116 Obese but not sarcopenic body composition phenotypes occurring in effectively treated HIV males are associated with increased frailty over time**
Julian Falutz, MD (1) McGill University Health Center, Montreal, Canada - L Rosenthal, MD (1), C Prado, PhD (2), A Malagoli, MD (3), S Zona, MD (3), T Brothers, BSc (4) S Kirkland, PhD (4), K Rockwood, MD4, G Guaraldi, MD(3)(1)McGill University Health Center, Montreal, Canada (2)University of Alberta, Edmonton, Canada (3)University of Modena and Reggio Emilia, Modena, Italy(4)Dalhousie University, Halifax, (Canada)

- P117 Iron overload reduces longevity and increases frailty in knock-out HFE mice**
Noirez Philippe (1,2), PhD - 1Institut de Recherche bioMédicale et d'Epidémiologie du Sport (IRMES), Institut National du Sport de l'Expertise et de la Performance (INSEP), Paris, France - 2EA7329, UFR STAPS, Université Paris Descartes, Sorbonne Paris Cité, France Djemai Haidar (1,2), PhD student, Remi Thomasson (1,2), PhD, Desgorces François (1,2), PhD, Vitiello Damien (1,2), PhD, Toussaint Jean-François 1 MD, PhD (1) Institut de Recherche bioMédicale et d'Epidémiologie du Sport (IRMES), Institut National du Sport de l'Expertise et de la Performance (INSEP), Paris, France 2EA7329, UFR STAPS, Université Paris Descartes, Sorbonne Paris Cité, (France)
- P118 Frailty in hospitalised heart failure patients predicts death and rehospitalisation at 6 months.**
Julee McDonagh, RN (1), Caleb Ferguson, RN, PhD (1), Sunita R Jha (1), Serra E Iyngian (1), Cleo CJ Crossley, RN (1), Elyn Montgomery, RN (2), Christine Hwang, RN (1,2), Sally C Inglis, RN, PhD(1), Gursharan Singh 1, Patricia M Davidson, RN, PhD (3), Peter Macdonald, PhD, MD (2), Phillip J Newton, RN, PhD (1) - (1) Centre for Cardiovascular and Chronic Care, University of Technology Sydney, Australia (2) St Vincent's Hospital Heart Lung Clinic, St Vincent's Hospital, Sydney, Australia (3) School of Nursing, Johns Hopkins University, Baltimore, (USA)
- P119 Hormonal determinants of hand grip strength in older hospitalized patients: ancillary study of glisten**
Marcello Maggio (1,2), Fulvio Lauretani (2), Alberto Fisichella (2), Marco Mantovani (2), Andrea Ticinesi (1), Francesco Corica (3), Francesco Landi (4), Stefano Volpato (5), Gian Paolo Ceda(1,2) - (1) Dipartimento di Medicina Clinica e Sperimentale, Università di Parma, Parma, Italia. - (2) Dipartimento Geriatrico-Riabilitativo, Azienda Ospedaliero-Universitaria di Parma, Parma, Italia. (3) Dipartimento di Medicina Clinica Sperimentale, Università di Messina, Messina, Italia. (4) Dipartimento di Geriatria, Neuroscienze e Ortopedia, Università Cattolica del Sacro Cuore, Roma, Italia. (5) Dipartimento di Scienze Mediche, Università di Ferrara, Ferrara, (Italia)
- P120 Health protective factors mitigate the risks of mortality and deficit accumulation in aging**
Zhan Yang, PhD 1 Xiaowei Song PhD, MSCS 2 Zhan's 2 Health Sciences and Innovation, Fraser Health Authority, BC, (Canada)
- P121 Performance of older adults with frailty syndrome in the timed up and go test**
Paulo Giusti Rossi (1), Juliana Hotta Ansaí, MD (1), Ana Claudia Silva Farche (1), Larissa Pires de Andrade (1), **Anielle Cristhine de Medeiros Takahashi** MD, PhD (1) - (1) Department of Physiotherapy, Federal University of São Carlos, São Paulo, (Brazil)
- P122 Six-minute walk test performance in frailty syndrome**
Ana Claudia Silva Farche (1); **Paulo Giusti Rossi** (1); **Juliana Hotta Ansaí** (1), MD; **Airton de Almeida Pena Júnior** (1); **Anielle Cristhine de Medeiros Takahashi**, PhD(1) - (1) Department of Physiotherapy, Federal University of São Carlos, São Paulo, (Brazil)
- P123 The Development of a Frailty Assessment Instrument Specific for Chinese Older Adults**
Ning Ge, MD PhD (1 2), Ding Ding, MD (2), Jennifer Schrack, PhD (3), Yi Song, RN (2) Jeremy D Walston, MD (1) - (1) the Older Americans Independence Center, Johns Hopkins University, Baltimore, USA - (2) West China Hospital, Sichuan University, (3) Department of Epidemiology, Johns Hopkins University, Baltimore, (USA)
- P124 Does sarcopenia affect the mass and strength of suprahoid muscles?**
Nami Machida, Department of Gerontology and Gerodontology, Tokyo Medical and Dental University, Japan Haruka Tohara, Department of Gerontology and Gerodontology, Tokyo Medical and Dental University, Japan Shunsuke Minakuchi, Department of Gerontology and Gerodontology, Tokyo Medical and Dental University, (Japan)
- P125 A Comparison of Frailty Indexes for the Prediction of Disability and Hospitalization in Older Patients Admitted to a Geriatric Day Hospital.**
Sumika Mori Lin, MD Frailty clinic, Hospital das Clínicas de São Paulo, Brazil - Raquel Ferreira Barcelos, MD Hospital das Clínicas de São Paulo, Brazil Juliana de Araújo Melo, Sileno de Queiroz Fortes' Filhos, MD Geriatric Day, Hospital das Clínicas de São Paulo, Brazil Serpui Marie Elmadjian, medical student at Universidade Anhembi Morumbi, São Paulo, Brazil Márlon Juliano Romero Aliberti, MD Geriatric Day Hospital Chief at Hospital das Clínicas da Universidade de São Paulo, (Brazil)
- P126 Effect of sarcopenia on the metabolic cost of walking among older adults**
Duane B. Corbett 1, PhD (1), Amal A. Wanigatunga, MPH (1), Vincenzo Valiani, MD (1), Eileen M. Handberg, PhD (1), Christopher M. Janelle, PhD (1), Todd M. Manini, PhD (1) (1) University of Florida, Gainesville, FL (USA)
- P127 Prevalence of dynapenia, sarcopenia and sarcopenic obesity and fall risk in elderly mexicans**
Wendy Rodríguez-García, MSc (1), Luis García-Castañeda, BChD (1), Lilia Castillo-Martínez, PhD (1), MSc (2), Mima Ruiz-Ramos, PhD (2), Víctor Mendoza-Núñez MD, PhD (2). (1) Instituto Nacional de Ciencias Médicas y Nutrición "SZ" (2) Facultad de Estudios Superiores Zaragoza, Universidad Nacional Autónoma de (Mexico)
- P128 The role of physical training upon hpa axis modulation ,muscle physiology and sexual function in elderly men**
Cristian Romeo Revnic, MD.Ph.D (1),UMF "Carol Davila " Cardiology Department,Bucharest,Romania Gabriel Prada MD.Ph.D (2),Adriana Sarah Nica MD.PhD (3),Catalina Pena,MD.PhD(4),Floarea Revnic,BSc(KCl London).PhD.(5),Silviu Voinea MD.Ph.D(6),Bogdan PaltineanuMD. PhD(7)(2) Rehabilitation Department,UMF "Carol Davila ",Bucharest Romania(3)Biology of Aging Department,NIGG "Ana Aslan ",Bucharest,Romania(4)Biology of Aging Department NIGG "Ana Aslan "Bucharest Romania(5)Oncology Department,UMF "Carol Davila ",Bucharest,Romania,(6)Sanitary Management Department,UMF Tg.Mures,(Romania)
- P129 Poor satellite cells impair muscle regeneration during osteoporosis and sarcopenia**
Eleonora Piccirilli MD (1), Jacopo Baldi MD (1), Manuel Scimeca PhD (2), Elena Bonanno MD PhD (2), Elena Gasbarra MD (1) and Umberto TarantinoMD(1) - (1)Department of Orthopaedics and Traumatology, University of Rome Tor Vergata, Policlinico Tor Vergata Foundation, Viale Oxford 81 00133 Rome (Italy) (2) Department of Pathological Anatomy, University of Rome Tor Vergata, Policlinico Tor Vergata Foundation, Viale Oxford 81 00133 Rome (Italy)
- P130 Sarcopenia in older people with Non-End Stage Chronic Kidney disease**
Carlos Quiñonez-Olivas, MD (1), Ricardo Salinas-Martínez, MD (1,2), Guillermo Guajardo-Álvarez, MD (1), Carlos Beltrán, MD (1), Alicia Arredondo, MD (1), Edgar Hernández, MD (1) (1) Division of Geriatrics, "Dr. José Eleuterio González" University Hospital, Universidad Autónoma de Nuevo Leon. (2) University Gerontological Committee, Universidad Autónoma de Nuevo Leon. Carlos Gabriel Quiñonez Olivas, MD Division of Geriatrics, "Dr. José Eleuterio González" University Hospital, Universidad Autónoma de Nuevo León, México. Ricardo Salinas-Martínez, MD(1,2), Guillermo Guajardo Álvarez, MD(1), Carlos Beltrán, MD(1), Alicia Arredondo, MD(1), Edgar Hernández, MD(1) -(1)Division of Geriatrics, "Dr. José Eleuterio González" University Hospital, Universidad Autónoma de Nuevo León. -(2) University Gerontological Committee, Universidad Autónoma de Nuevo León.(Mexico)
- P131 Development of the first functionally mature in vitro human muscle model: a new paradigm for fundamental research and drug discovery**
Joris Michaud, M.Sc.1, Yoran Margaron, PhD1, Mathieu Fernandes, PhD1, Pauline Menager, PhD1, Pauline Poydenot, B.Sc.1 and **Sebastien Degot**, PhD1 - (1)CYTOO, Grenoble (France)
- P132 Are predictors of functional capacity improved following a Power Training in obese and dynapenic-obese older men?**
Livia Pinheiro Carvalho, PhD(c) (1,2,3,4); Charlotte H Pion, PhD(c)(2,3,4); François C Lemieux, MSc(2,3,4); Guy El Hajj Boutros, BSc(c)(2,3,4); Audrey Borghi-Silva, PhD(1); Pierrette Gaudreau, PhD(4,5); Stéphanie Chevalier, PhD(6); Marc Bélanger, PhD(2,3); Gilles Gossipillou, PhD(2,3,4); José Moraes, MD(6); Mylène Aubertin-Leheudre, PhD(2,3,4) - (1) Department of Physical Therapy, University of Sao Carlos, Sao Carlos (SP), Brazil (2) Department of Physical Activity Sciences, University of Quebec in Montreal, Montreal (QC), Canada (3) GRAPA (Groupe de Recherche en Activité Physique Adaptée), University of Quebec in Montreal, Montreal (QC), Canada (4) CRIUIGM (Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal), University of Montreal, Montreal (QC), Canada (5) CHUM (Centre Hospitalier de l'Université de Montréal), University of Montreal, Montreal (QC), Canada (6) McGill University Health Centre, Research Institute and Geriatric Medicine, McGill University, Montreal (QC), (Canada)
- P133 VES-13, Gait Speed and geriatric assessment domains as predictors of complications during treatment elderly cancer patients**
Miguel Oswaldo Cadena Sanabria, MD Universidad Autónoma de Bucaramanga (UNAB), Unit of Geriatrics, Internal Medicine Department, Clínica FOSCAL. Bucaramanga, Colombia - Jorge Hernan Lopez Ramirez, MD Director of Geriatrics Program, Universidad Nacional de Colombia Bogota, Colombia
- P134 Impact of physical activity in the gait speed and muscle strength in sarcopenic patients older than 65 years**
Nemerovsky Julio (1), (1)Escuela de Ciencias del Envejecimiento, Universidad Maimónides, Hidalgo 775, CABA, Argentina.- Leal Marcela (2), Mariñansky Cynthia (1), Carrazana Carla (2), Valerio Marisa (3), Herrera Javier (2), Zarebski Graciela (1), Greco José (3) - (1)Escuela de Ciencias del Envejecimiento, Universidad Maimónides, Hidalgo 775, CABA, Argentina. (2)Centro de Nutrición Maimónides (CNM), Licenciatura en Nutrición, Universidad Maimónides), Hidalgo 775, CABA, Argentina. (3)Carera de Licenciatura en Educación Física y Deporte. Laboratorio de Fisiología del ejercicio. Universidad Maimónides, Hidalgo 775, CABA, Argentina.
- P135 Age-related Changes in Upper Limb Sensorimotor Synchronization for Geriatric Frailty Applications.**
Chong Xiao Yun ((1), Geoffrey Samuel(2), Ge Yu(3), Wu Dajun(3), He Dajiang(3), Lye Weng Kit(4), Ng Yee Sien(2) - (1) Duke-NUS Medical School, Singapore, (2) Department of Rehabilitation, Singapore General Hospital, Singapore (3) Institute for Infocomm Research, Agency for Science, Technology and Research, Singapore (4) Centre for Quantitative Medicine, Duke-NUS Medical School, Singapore