

FRAILTY IN CLINICAL PRACTICE AND PUBLIC HEALTH

P1 • Clinical classification of fall risks by visually obtained information predict frailty at a memory clinic

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P2 • Comparison of Multidimensional Frailty Score and Grip Strength to predict postoperative complications for Older Hip Fracture Patients

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P3 • Preoperative sarcopenia and postoperative infection in aged digestive surgery patients

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P4 • The impact of an integrated care model for pre-frail and frail older people living in community

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P5 • Relationship between physical condition, functionality, cognition, psycho-affective state, quality of life and frailty in long-term nursing home residents

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P6 • Discordance between ECOG and Frailty in Lung cancer patients -The role of CGA in lung cancer patients

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P7 • Relationship between Frailty syndrome and Framingham Risk Score for cardiovascular diseases in older adults from the International Mobility in Aging Study

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P8 • Importance of assessing frailty in older people with decreased grip strength

Carmen Eliana Peralta Vargas, Ian Falvy Bockos, Claudia Valdivia Alcalde Lima (Peru)

P9 • Relationship between Serum Fatty Acids and Physical Frailty in Community-dwelling Older Japanese

Kaori Kinoshita, RD, MS1, Rei Otsuka PhD1, Chikako Tange PhD1, Yukiko Nishita PhD2, Makiko Tomida CP, PhD1, Takeshi Nakagawa PhD1, Fujiko Ando MD, PhD3, Hiroshi Shimokata MD, PhD4, and Hidenori Arai MD, PhD5 (1) Section of NILS-LSA, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Obu, Japan (2) Department of Epidemiology, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Obu, Japan (3) Department of Health and Medical Science, Aichi Shukutoku University, Nisshin, Japan (4) Graduate School of Nutritional Sciences, Nagoya University of Arts and Sciences, Nisshin, Japan (5) National Center for Geriatrics and Gerontology, Obu, (Japan)

P10 • WHO's new tool for measuring the intrinsic capacity of older people: first experience of use

Tavassoli N, Lafont C, Berbon C, De Kerimel J, Da Costa F, Augusto S, Bouchon L, Vaysset S, Poly M, Daniaud N, Oliveira C, Chassaigne MC, Soto M, Vellas B. Gerontopole-Toulouse University Hospital (France)

P11 • Creation of a "Hospital out of Walls" care unit at Gerontopole - Toulouse University Hospital

Tavassoli N, Berbon C, Lafont C, De Kerimel J, Oliveira C, Bouchon L, Da Costa F, Augusto S, Vaysset S, Poly M, Daniaud N, Chassaigne MC, Soto M, Vellas B. Gerontopole-Toulouse University Hospital (France)

P12 • Potentially inappropriate antihypertensive prescribing and associated factors in older adults

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P13 • Increase in sleep duration and progression of physical frailty in community-dwelling older adults:

Data from a 4-year longitudinal study

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P14 • Hand-grip strength as a preoperative sarcopenia screening tool for surgical patients

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P15 • Frailty Intervention Trial in End-Stage Patients on Haemodialysis (FITNESS): Baseline Data and Next Steps

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P16 • Association between social frailty and comprehensive health literacy in community-dwelling older adults

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P17 • Association between frailty and quality of life measured with the SarQoL®, SF-36 and EQ-5D questionnaires in older people from the SarcoPhAge cohort

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P18 • Frailty assessment in older urological patients prior to surgery: a systematic review and narrative synthesis

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P19 • Frailty and risk of hospitalizations and mortality in homedwelling older persons with home care nursing service

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P20 • Physical frailty and adverse events in older adults undergoing elective abdominopelvic surgery in a general hospital, Lima-Perú

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P21 • Assessment of frailty and occurrence of anxiety and depression in elderly patients with atrial fibrillation (AF)

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P22 • Relationship between polypharmacy and frailty in community-dwelling older adults: a cross-sectional analysis of a prospective cohort study(NCGG-SGS)

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P23 • A Multi-factorial Exercise and Nutritional Intervention to Improve Functional Performance and Prevent Frailty Progression in Community-Dwelling Pre-frail Older Adults

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P24 • Short physical performance battery (sppb) test cut point to differentiate between frail and non-frail community-dwelling older adults: results from pro-eva study

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P25 • Association between the components of frailty phenotype and inflammatory markers among community-dwelling older adults

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P26 • Screening for frailty in older candidates to kidney transplantation

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P27 • Association between hearing problems and physical, cognitive, and social frailty in Japanese older adults

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P28 • Association between Depression, Apathy and Social Frailty

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P29 • Predicting Hospital Outcomes of the Reported Edmonton Frail Scale-Thai Version in Orthopedic Patients

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P30 • Frailty's identification in smart home

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P31 • A frail phenotype in a paediatric oncological Intensive Care population

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P32 • Nutrition and Physical Activity for Older Adults with Frailty: Protocol for the Development of Evidence-Based Clinical Practice Guidelines

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P33 • Opportunities for frailty screening tools/measures in US national surveys and community practice

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P34 • The Effectiveness of Multi-domain Intervention Program for Frail Older People

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P35 • Frailty and Sarcopenia in Women with Systemic Lupus Erythematosus

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P36 • Frailty in Systemic Rheumatic Diseases: A Systematic Review

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P37 • Factors Predicting Caregiver Role Strain from Caregiving Activities for Bed Bound Older Adults at Home

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P38 • Frailty, physical performance and falls: results from SABE Colombia Study

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P39 • Clinical Frailty Scale as a predictor of short term functional recovery in patients with hip fracture

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P40 • Discordance in frailty measures in old community dwelling people with multimorbidity

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P41 • Gait speed and body mass index: results from the ami study

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P42 • Drug use as a predictor of frailty in home-dwelling older persons

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P43 • Frailty profile and preoperative anemia of elderly patients admitted for hip fracture

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P44 • Frail-VIG .A promising and time-feasible index frailty for clinical settings

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P45 • Effect of 24-week multicomponent exercise program on Frailty and Sarcopenia in post-hospitalization older adults

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P46 • Increased risk of unacknowledged fracture in the patients admitted in alcohol rehabilitation

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P47 • A hierarchical approach between frailty and disability to predict mortality among community-dwelling older adults:

The Three Cities Study

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P48 • Getting fit for hip and knee replacement: the Fit-Joints pilot randomized controlled trial of a multi-modal intervention in frail patients with osteoarthritis

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P49 • Influence of Frailty Status on Discharge Setting Following Inpatient Rehabilitation for Hip Fracture Patients

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P50 • Feasibility of Implementing a Frailty Order Set to Enhance the Hospital Care of Older Adults Living with Frailty

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P51 • Prevalence of frailty and its associated factors in patients with rheumatoid arthritis in Japan

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P52 • Frailty as modulator of brain damage in Parkinson's disease

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P53 • Influence of cognitive impairment and assistance from informal caregivers on the body weight changes of nursing home residents after accidental falls

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P54 • "ACTION RESEARCH" to achieve community-based comprehensive approach for frailty prevention

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P55 • Quality- adjusted life years and frailty in older Chileans

C Albala INTA, Universidad de Chile - Albala Cecilia, Saguez Rodrigo, Márquez Carlos, Angel Bárbara, Moya Mario, Lera Lydia (Chile)

P56 • +AgilBCN: Integrated care for frail older adults with cognitive impairment in the community

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P57 • Awareness regarding frailty and sarcopenia among healthcare professionals at a District General Hospital in South East United Kingdom

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P58 • A Geriatric outpatient's cross-sectional study: Age and gender related risk factors and comorbidity with frailty index

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P59 • The frailty index in older women with gynecological cancer

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P60 • Predictors of Fried Frailty Phenotype in a sample of a Portuguese community-dwelling oldest old individuals

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P61 • Risk Factors and Screening Tools to Predict 90-day Mortality, Rehospitalization and Functional Decline in a Hospital Geriatric Unit

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P62 • Anaesthesia Geriatric Evaluation (AGE) to guide patient selection for preoperative multi-disciplinary team care in cardiac surgery

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P63 • Physical Frailty and Functional Dependence as predictors of adverse events in hospitalized older adults with hip fractures in the Orthogeriatric Unit of a General Hospital in Lima, Peru.

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P64 • The risk factors of social frailty in community-dwelling Japanese older adults

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P65 • Preoperative frailty and one year functional recovery of elderly cardiac surgery patients: an observational prospective cohort study.

Lisa Verwijmeren MD1, Peter G. Noordzij MD, PhD1, Edgar J. Daeter MD2, Marielle H. Emmelot-Vonk MD, PhD3, Wilton A. van Klei MD, PhD4, Eric P.A. van Dongen MD, PhD1. 1 Department of Anaesthesiology, Intensive Care, and Pain Medicine, St. Antonius Hospital, Nieuwegein, The Netherlands; 2 Department of cardiothoracic surgery, St. Antonius Hospital, Nieuwegein, The Netherlands 3 Department of Geriatric Medicine, University Medical Center Utrecht, Utrecht University, Utrecht, The Netherlands 4. Department of Anaesthesiology, Intensive Care and Emergency Medicine, University Medical Centre Utrecht, Utrecht University, Utrecht, (The Netherlands)

P66 • The importance of sensory frailty in a population based sample in England

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P67 • eCare: in search of the real unmet needs to reach frailty management in old adults

Laura Sánchez (Jagger) Patricia Martínez (Jagger) - Madrid (Spain)

P68 • Frailty in older persons with idiopathic normal pressure hydrocephalus undergoing cerebrospinal fluid removal procedure.

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P69 • Design and development of a new model for the assessment and support of functionality in community-dwelling older people

Itziar Vergara (2-4) Carolina Güell (1,2), Mónica Machón (2-4), Lucía Quintana (5), Sarai Beobide (6), Amaia Elosegui (7), Irati Rodríguez (8), Maña José Goñi (9), Carlos Barruso (10), (1) Osakidetza, Centro de salud de Altza, San Sebastián, Spain. (2) Instituto de Investigación Sanitaria Biodonostia, Grupo de Atención Primaria, San Sebastián, Spain (3) Red de Investigación en Servicios de Salud en Enfermedades Crónicas (REDISSEC), Bilbao, Spain. (4) Kronikgune-Centro de Investigación en Cronicidad, Barakaldo, Spain (5) Unidad Docente Multiprofesional de Atención Familiar y Comunitaria, Osakidetza, San Sebastián, Spain (6) Osakidetza, Hospital Donostia, San Sebastián, Spain (7) Asociación Española contra el Cáncer (AECC), Juan de Tolosaldea y Alto Urola-Goierri, Spain (8) Centro de salud Amara Berri, Osakidetza, San Sebastián, Spain (9) Coordinación Sociosanitaria, Osakidetza, San Sebastián, Spain (10) Integración Asistencial de la OSI Donostialdea, Osakidetza, San Sebastián, (Spain)

P70 • Identification of clusters of chronic diseases in functionally independent robust and frail individual

Itziar Vergara (1-3) Mónica Machón (1-3), Maider Mateo-Abad (3,2), Mercedes Clerencia-Sierra (4,5,2), Carolina Güell (6, 1), Beatriz Poblador-Pou (5,2), Kalliopi Vrotsou (1-3), Antonio Gimeno-Miguel (5,2), Alexandra Prados-Torres (5,2) (1) Instituto de Investigación Sanitaria Biodonostia, Grupo de Atención Primaria, San Sebastián, Spain (2) Red de Investigación en Servicios de Salud en Enfermedades Crónicas (REDISSEC), Spain. (3) Kronikgune-Centro de Investigación en Cronicidad, Barakaldo, Spain (4) Hospital Universitario Miguel Servet, Zaragoza, Spain (5) Grupo EpiChron de Investigación en Enfermedades Crónicas, Instituto Aragonés de Ciencias de la Salud, ISS Aragón, Zaragoza, Spain (6) Osakidetza, Centro de salud de Altza, San Sebastián, (Spain)

P71 • Feasibility of a habit formation intervention to delay frailty progression among older African Americans.

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P72 • Augmented Exercise in Hospital Improves Physical Performance and Reduces Negative Post Hospitalization Events: A Randomized Controlled Trial

Ruth McCullagh, 1, Eimear O'Connell 2, Sarah O'Meara 3, Darren Dahly 4,5, Eilís O'Reilly 4, Kieran O'Connor 6, N. Frances Horgan 7, Suzanne Timmons 1.1 Centre for Gerontology & Rehabilitation, University College Cork, Ireland. 2 Physiotherapy Department, Mercy University Hospital, Cork. 3 Clinical Research Facility, Mercy University Hospital, Cork. 4 School of Public Health, University College Cork. 5 Clinical Research Facility, Cork, University College Cork. 6 Department of Geriatric Medicine, Mercy University Hospital, Cork. 7 School of Physiotherapy, Royal College of Surgeons in Ireland, Dublin, Ireland. fhorgan@rcsi.ie 1 Centre for Gerontology & Rehabilitation, University College Cork, (Ireland)*

P73 • The Lorraine Frailty-Profiling Screening Scale as a first-step tool to detect specific frailty profiles

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P74 • Frailty predicts short and long-term outcomes of reperfusion treatment in acute stroke

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P75 • Associations of frailty indicators and social isolation risk among community-dwelling older adults in the United States

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P76 • Cross-sectional and Longitudinal Associations Between Peak Expiratory Flow and Frailty in Older Adults

Caterina Trevisan (1,2; Debora Rizzuto (1,4); Stefania Maggi (3) Giuseppe Sergi (2) Anna-Karin Welmer (1,4-6) and Davide Liborio Vetrano (1,7) (1) Aging Research Center, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet and Stockholm University, Stockholm, Sweden (2) Department of Medicine (DIMED), Geriatrics Division, University of Padova, Italy (3) National Research Council, Neuroscience Institute, Padova, Italy (4) Stockholm Gerontology Research Center, Stockholm, Sweden (5) Division of Physiotherapy, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Stockholm, Sweden (6) Allied Health Professionals, Function Area Occupational Therapy & Physiotherapy, Karolinska University Hospital, Stockholm, Sweden (7) Centro Medicina dell'Invecchiamento, IRCCS Fondazione Policlinico "A. Gemelli" and Catholic University of Rome, (Italy)

PHYSICAL FRAILTY AND AGE-RELATED BODY COMPOSITION MODIFICATIONS

P77 • Importance of physical habits to counteract muscle aging process

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P78 • Relationship between physical condition, functionality, cognition, psycho-affective state, quality of life and frailty in long-term nursing home residents

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P79 • Effects of height loss on skeletal muscle mass index and physical function in Japanese elderly women: The Japanese Population-based Osteoporosis (JPOS) study

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P80 • Association between Anorexia of Aging and Sarcopenia among Japanese Older Adults

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P81 • Comparison of grip strength in Russian populations (the cities Arkhangelsk and Novosibirsk) versus a Norwegian population (Tromsø)

Bjørn Heine Strand, PhD (1), Rachel Cooper, PhD (2), Vladimir M. Shkolnikov, PhD (3,4), Alexander Kudryavtsev, PhD (5,8), Sofia Malyutina, PhD (6), Andrey Ryabikov, PhD (7), Laila Hopstock, PhD (8), Jonas Johansson, PhD (8), Sarah Cook, PhD (8), David A Leon, PhD (8,9) - (1) Norwegian Institute of Public Health, Oslo, Norway -(2) Manchester University, Manchester, UK - (3) National Research University Higher School of Economics, Moscow, Russian Federation -(4) Max Planck Institute for Demographic Research, Rostock, Germany - (5) Northern State Medical University, Arkhangelsk, Russian Federation (6) Research Institute of Internal and Preventive Medicine – Branch of the Institute of Cytology and Genetics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russian Federation -(7) Novosibirsk State Medical University, Russian Ministry of Health, Novosibirsk, Russian Federation -(8) UiT, The Arctic University of Norway, Tromsø, Norway - (9) London School of Hygiene & Tropical Medicine, London, (UK)

P82 • Muscle thickness by ultrasound is a potential biomarker for frailty in those at risk of falls and fragility fracture

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P83 • Association between testosterone and frailty: a systematic review and meta-analysis

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P84 • Interaction between Frailty and Abdominal Obesity on Disability in Older Persons – the Singapore Chinese Health Study

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P85 • Association between Physical activity and cognition in Mexican and Korean older adults

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P86 • Does work per repetition and phase angle play a role in Sarcopenia?

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P87 • Fat mass index and the performance of older people in the 6-minute walking test

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P88 • Echocardiographic Quadriceps Muscle Thickness: A Practical Biomarker for Frailty

Victoria Hayman, BSc1, Christos Galatas MD1, Neetika Bharaj BSc1, Marie-Josée Blais BSc2, Nancy Murray BSc2, Lawrence Rudski MD2, Igal A. Sebag MD2, Jonathan Afilalo MD, MSc1,2 - (1) Centre for Clinical Epidemiology, Jewish General Hospital, Montreal, QC, Canada - (2) Division of Cardiology, Jewish General Hospital, McGill University, Montreal, QC, (Canada)

P89 • Frailty in community-dwelling older adults enrolled on a physical exercise program

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P90 • Relationship between physical health indicators associated with frailty in older hispanics with type 2 diabetes

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P91 • Frailty affects chronic pain in elderly one year after cardiac surgery

Britta C Arends Lisa Verwijmeren, Peter G Noordzij, Douwe H Biesma, Leon Timmerman, Eric PA van Dongen, Heleen J Blussé van Oud-Alblas - St. Antonius Hospital - Nieuwegein (Netherlands)

P92 • Physical frailty and undernutrition in older adults undergoing elective abdominopelvic surgery in a general hospital, Lima-Perú

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COGNITIVE FRAILTY

P93 • The effects and feasibility of an m-health brisk-walking intervention for older people with cognitive frailty

Rick Yiu Cho Kwan, Deborah Lee, Centre for Gerontological Nursing, School of Nursing, The Hong Kong Polytechnic University (Hong Kong)

P94 • Factors associated with motoric cognitive risk (MCR) syndrome and impact of MCR on functional capability among older adults

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P95 • Sleep Patterns and Sleep problems in Older Persons with Dementia

Narumon Numpha, Pornthip Malathum, Nuchanad Sutti, Taweewat Assavapokee - Ramathibodi School of Nursing Bangkok (Thailand)

P96 • Cognitive function and vitality have a stronger correlation with "Perceived age" than "Chronological age"

Yumi Umeda-Kameyama, MD, PhD1, Masashi Kameyama MD, PhD2, Taro Kojima MD, PhD1, Masaki Ishii MD, PhD1, Shinya Ishii MD, PhD1, Mitsutaka Yakabe MD, PhD1, Kiwami Kidana MD, PhD1, Tomohiko Urano MD, PhD1,3, Sumito Ogawa MD, PhD1, Masahiro Akishita MD, PhD1 1Department of Geriatric Medicine, the University of Tokyo School of Medicine, Tokyo, Japan 2Department of Diagnostic Radiology, Tokyo Metropolitan Geriatric Hospital and Institute of Gerontology, Tokyo, Japan 3Department of Geriatric Medicine, International University of Health and Welfare, Narita, Chiba, (Japan)

P97 • Risk Factors for Cognitive Frailty and its Impact on Health Outcomes in Community Dwelling Older Adults

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P98 • Detection of cognitive frailty subtypes and relations with clinical characteristics: A Latent Class Analysis

Osamu Katayama, Sangyoon Lee. Seongyu Bae Keitaro Makino, Ippei Chiba, Kenji Harada, Yohei Shinkai, Hiroyuki Shimada - Department of Preventive Gerontology, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, (Japan)

P99 • Association between the APOE 4 genotype and cardiovascular risk factors in older Mexican adults with mild amnesic and non-amnesic Cognitive Impairment

Aguilar Navarro Sara G, Mimenza Alvarado Alberto J, González Aparicio Itzel, Cabrera Juárez Clarita, Samudio Cruz Alejandra, Alexa Monsal, Avila Funes JA, Juarez-Cedillo Teresa (Mexico)

P100 • A Comprehensive Longitudinal Study including biology and imaging of Cognitive functions in Frail Older Adults (COGFRAIL): a study protocol

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P101 • STEADI Fall Risk Score Predicts Incident Cognitive Impairment: Data from the National Health and Aging Trends Survey

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P102 • Impact of cognitive reserve on functional and cognitive decline among elderly outpatients

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P103 • The Cognitive Correlates of Frailty in a Mexican-American Cohort

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P104 • Cognition and Frailty: Fellow Travelers or Partners in Crime?

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E-HEALTH

P105 • Hygiene 2.0 : a protocol to implement a responsive website selecting bath technology for frail elderly

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P106 • Machine-Learning Multimorbidity Frailty Index: Comparisons between Hypothesis- and Data-Driven Approaches Using Taiwan's National Health Insurance Research Database

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P107 • Adapting inpatient rehabilitation interventions for the frail elderly using a 3D representation of the home environment

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OSTEOPOROSIS & FRAILTY

P108 • Previous diagnosis of osteoporosis in elderly patients with hip fracture

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P109 • Muscle and bone functions in elderly osteopenic-obese : Effect of initial protein intake.

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NUTRITION AND AGING

P110 • MNA-SF vs GLIM diagnostic criteria of malnutrition in very old patients hospitalized an acute geriatric unit

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P111 • Mealtime observation and assistances undervalued as a strategy to optimising nutrition in frail older adults

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P112 • Four-year risk of mortality in malnourished older adults diagnosed by the European Society for Clinical Nutrition (ESPEN) and the Global Leadership Initiative on Malnutrition (GLIM) criteria: data from the SarcoPhAge study

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P113 • Higher Dose of Resveratrol Elevated Cardiovascular Disease Risk Biomarker Levels in Overweight Older Adults – A Pilot Study

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P114 • Actual Nutrition Impact for Residual Working Capacity and Frailty

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P115 • Development of a screening method for assessing olfactory capacity of everyday food odours in ageing populations

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P116 • Nordic nutrition recommendations

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P117 • The role of omega-3 in the prevention and treatment of sarcopenia

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P118 • MNA-SF and GLIM criteria in older persons with cancer

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P119 • Association between Serum 25-hydroxyvitamin D concentration and muscle mass and strength in Japanese elderly people

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P120 • Dietary protein quality predicts muscle quality in women

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P121 • Protein Supplementation increase apoptotic gene expersion via interna pathway in EDL of aged rat

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P122 • Nutritional characterization in relation to frailty and obesity– results for a national survey of community dwelling older adults

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P123 • Bone density and bone structure among dynapenic obese older adults: the influence of protein intake

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P124 • Unintentional Weight Loss and Sarcopenia in Community-dwelling Older Adults

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P125 • How does the utilisation of indirect calorimetry affect weight change in hospitalised geriatric rehabilitation patients at risk of malnutrition? – The NEED study

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P126 • Does food autonomy affect dietary intake in cognitive frail patients: data from COGFRAIL study

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P127 • Relationship of grip strength and physical characteristics with nutritional intakes in community-dwelling elderly

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P128 • Development and validation of a food frequency questionnaire to assess calcium intake of mexican postmenopausal women

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P129 • Dietary factors in predicting frailty among community-dwelling older adults

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P130 • Poor nutritional status is associated with fatigue in Nursing Home residents: a sub-group analysis from the INCUR study.

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P131 • Contribution of diet and its interaction with physical activity and psychosocial well-being to functional trajectories in old age

Marguerita Saadeh (1,2), Federica Prinelli (1,3), Anna-Karin Welmer (1,4), Weili Xu (1), Davide L Vetrano (1,5), Serhiy Dekhtyar (1), Laura Fratiglioni (1,6), Amaia Calderón-Larrañaga (1)1- Aging Research Center, Dept. NVS, Karolinska Institutet & Stockholm University, Sweden2- SWEAH, Dept. of Health Sciences, Lund University, Sweden3- Institute of Biomedical Technologies-National Research Council, Milan, Italy4- Functional Area Occupational Therapy & Physiotherapy, Karolinska University Hospital, Sweden5- Centro di Medicina dell'Invecchiamento, IRCCS Fondazione Policlinico "A. Gemelli" and Catholic University of Rome, Rome, Italy6- Stockholm Gerontology Research Center, (Sweden)

P132 • A food re-education and a resistance exercise program in the control of non-transmissible chronic diseases

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P133 • The Dietary Inflammatory Index and its association with muscle and brain outcomes in older adults: a systematic review.

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CELLULAR SENESENCE

P134 • Modulation of the miR-34a/Sirt1 axis in aged skeletal muscle by the senolytic drug ABT-263 (Navitoclax)

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EPIDEMIOLOGY

P135 • Factors associated with functional disability or death in non-obese elderly with low muscle mass status in the city of São Paulo - Brazil: Survival analysis

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P136 • Sarcopenia and its relation to protein intake across older ethnic populations in the Netherlands: The HELIUS study

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P137 • Frailty, outdoor activities and acute respiratory infections: findings from a cohort of community-dwelling older people

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P138 • Short-term decline in muscle function is associated with mortality in the SarcoPhAge study

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P139 • Examining the Differences in Prevalence of Sarcopenia in a Cohort of Acutely Ill Older Adults According to FNIH and EWGSOP2 Criteria

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P140 • Prevalence of frailty in older people in Chile: results of the 2016-2017 National Health Survey

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P141 • Sarcopenia and falls as risk factors for death among Brazilian older adults: a 10 year follow-up

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P142 • The Combination Of Sarcopenia And Frailty Increases The Odds Of Cognitive Impairment In Elderly Singaporeans

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P143 • Frailty associated with car accidents in Japanese older adults

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P144 • Prevalence of sarcopenia as a comorbid disease: A systematic review and meta-analysis

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P145 • Incidence of Frailty in Community Dwelling US Older Veterans

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P146 • The Cross-Sectional Association of Cognitive Impairment with Anticholinergic Use was Not Modified by Frailty in Community Dwelling US Older Veterans

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P147 • Racial Differences in All-Cause Mortality after Transition to Frailty in Community Dwelling US Older Veterans

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P148 • Association of sarcopenic obesity with the risk of all-cause mortality – results from the Health 2000 Survey with 15 years of follow-up

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P149 • Frailty Prevalence in Younger and Older Patient with End-Stage Kidney Disease (ESKD)

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P150 • Nutritional status and nutritional interventions in geriatric rehabilitation – systematic reviews

Janneke van Wijngaarden, PhD1, Julia Wojziszke MSc2, Jürgen Bauer MD, PhD3, Andrea Maier MD PhD4,5, Yvette Luiking PhD1 1 Danone Nutricia Research, Utrecht, the Netherlands 2 Department of Health Services Research, Carl von Ossietzky University, Oldenburg, Germany 3 Center for Geriatric Medicine, University Heidelberg, Germany; Agaplesion Bethanien Hospital, Heidelberg, Germany 4 Department of Medicine and Aged Care, The Royal Melbourne Hospital, The University of Melbourne, Melbourne, Victoria, Australia. 5 Department of Human Movement Sciences, Faculty of Behavioural and Movement Sciences, Amsterdam Movement Sciences, Vrije Universiteit, Amsterdam, (The Netherlands)

P151 • Sarcopenia prevalence through ewgsop and ewgsop2 criteria in elderly women residents in urban and rural areas

Lefícia Mazocco (1), Patrícia Chagas (2), 1Thiago G. Barbosa-Silva (3,4), Maria Cristina Gonzalez (4), Carolina Böettge da Rosa (1), Carla Helena Augustin Schwanke (1,5) (1) Graduate Program in Biomedical Gerontology, School of Medicine, Pontifical Catholic University of Rio Grande do Sul (PUCRS), Porto Alegre, RS, Brazil. (2) Department of Food and Nutrition, Universidade Federal de Santa Maria (UFSM), Santa Maria, RS, Brazil. (3) Faculdade de Medicina da Universidade Federal de Pelotas (UFPEL), Pelotas, RS, Brazil. (4) Faculdade de Medicina da Universidade Católica de Pelotas (UCPel), Pelotas, RS, Brazil. (5) Institute of Geriatrics and Gerontology, Pontifical Catholic University of Rio Grande do Sul (PUCRS), Porto Alegre, RS, (Brazil)

P152 • Effect of grip strength on functional independence measure motor scale at admission in the department of rehabilitation medicine in old patients with disuse syndrome

Mitsuru Majima, Department of Rehabilitation Medicine, Saitama Medical University Hospital, Moroyama, (Japan)

P153 • Changes in functional ability, physical strength, vigour, morbidity and social function with decreasing time to death, versus with increasing chronological age - and its impact on life-satisfaction. A study of a longitudinal and extinct cohort with 20 years of follow-up.

Janne Petersen,1(1) Center for Clinical Research and Prevention, Copenhagen University hospital, Frederiksberg, Denmark and Section of Biostatistics, Department of Public Health, University of Copenhagen, Annette Johannesen2 (2) Center for Clinical Research and Prevention, Copenhagen University hospital, Frederiksberg (Denmark)

P154 • Frailty status and two-year cognitive decline in community-dwelling older Japanese women

Hiroyuki Sasai, Yosuke Osuka, Narumi Kojima, Hunkyung Kim - Research Team for Promoting Independence and Mental Health, Tokyo Metropolitan Institute of Gerontology, (Japan)

ANIMAL MODELS

P155 • Estradiol deficiency and skeletal muscle apoptosis: Contribution of microRNAs

Sira Karvinen, PhD1, Hanna-Kaarina Juppi, MSc1, Gengyun Le, PhD2, Christine Cabelka, PhD2, Tara Mader, PhD2, Dawn Lowe, PhD2 and Eija Laakkonen, PhD1. (1) Gerontology Research Center, Faculty of Sport and Health Sciences, University of Jyväskylä, Jyväskylä, Finland (2) Divisions of Rehabilitation Science and Physical Therapy, Department of Rehabilitation Medicine, Medical School, University of Minnesota, Minneapolis, (USA)

P156 • Deciphering Genomics of Sarcopenia via Zebrafish Model

Alon Daya1, Rajashekar Donaka2, and David Karasik2,3 - 1 The Faculty of Marine Sciences, Ruppin Academic Center, Michmoret, Israel. - 2 The MusculoSkeletal Genetics Laboratory, The Azrieli Faculty of Medicine, Bar-Ilan University, Safed, Israel 3 Hebrew SeniorLife, Hinda and Arthur Marcus Institute for Aging Research, Boston, Massachusetts, (USA)

P157 • Centenarian offspring are less frail and genetically distinct than age-matched controls: a functional and transcriptomic analysis

José Vina, Faculty of Medicine, Freshage Research Group-Department of Physiology - Freshage Research Group-Department of Physiology - University of Valencia (Spain)

PRECLINICAL STUDIES

P158 • A prospective observational study of unknown hypoglycemic episodes in oldest old diabetic patients

Hennekinne F 1, Mennecart M1, Bleuet J1, Constans T1, Fougère B1 1Department of Geriatrics Medicine, Tours University Hospital, Tours, (France)

P159 • Role of adipocyte haptoglobin in aged-related muscle weakness

Marie Catenacci Sophie Le-Gonidec, Alizée Dortignac, Ophélie Pereira, Romain Madeleine, Jean-Philippe Pradère, Philippe Valet & Cedric Dray
UMR1048 INSERM, Université Fédérale de Toulouse - Université Paul Sabatier Toulouse III (France)

P160 • Nrf2 activator improves age-related musculoskeletal dysfunction through improved mitochondrial function and protein synthesis in a novel guinea pig model

Robert V. Musci MSc1, Kendra Andrie, DVM2, Zackary Valenti, MSc1, Maureen Walsh1, Margaret Campbell2, Sydney Bork2, Joseph Sanford1,2, Mary Afzali, PhD2, Qian Zhang, PhD1, Martin A. Javors, PhD4, Benjamin F. Miller, PhD5, Kelly S. Santangelo, DVM, PhD2, Karyn L. Hamilton, PhD, RD1,3 - (1) Department of Health and Exercise Science, Colorado State University, Fort Collins, CO, USA - (2) Department of Microbiology, Immunology, Pathology, Colorado State University, Fort Collins, CO, USA (3) Columbine Health Systems Center for Healthy Aging, Colorado State University, Fort Collins, CO, USA (4) UT Health San Antonio, San Antonio, TX, USA - (5) Oklahoma Medical Research Foundation, Oklahoma City, OK, (USA)

P161 • Supporting muscle building in sarcopenia: Mechanism of action of the specific nutrient combination of ActiSyn(TM)

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P162 • A prospective non-invasive microwave-based in-vivo tissue-analysis tool for early diagnosis and management in age-related sarcopenia: Initial proof-of-concept investigations in The Netherlands

Perez M.D (1), Koochek A.(2), Blokhuis T.J.(3), Augustine R.(1) (1) Microwaves in Medical Engineering Group, Solid State Electronics, Department of Engineering Sciences, Angstrom Laboratory, Uppsala University, Uppsala, Sweden (2) Department of Food Studies, Nutrition and Dietetics, Uppsala University, Uppsala, Sweden (3) Maastricht University Medical Center, Traumatology Department, 6229 HX Maastricht, (The Netherlands)

P163 • Evaluation of Cross-Sectional Area of Rectus Femoris Muscle Using Single Element Ultrasonic Transducer with Optical Tracker

Yueh-Cheng Yang Hui-Hua Chiang, Biomedical Engineering Department, National Yang Ming University Taipei city (Taiwan)

CLINICAL TRIALS

P164 • Frailty, clinical, and psychosocial status among old caregivers in Belgium : a case-control study

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P165 • Effects of exercise and beta-hydroxy-beta-methylbutyrate supplements on muscle thickness and quality in older women with muscle atrophy: Secondary analyses of a randomized, double-blind, placebo-controlled trial

Yosuke Osuka, PhD(1), Narumi Kojima MS(1), Ken Nishihara PhD(2), Kyohsuke Wakaba PhD(3), Daiji Miyauchi(4), Kiyoji Tanaka PhD(3), and Hunkyung Kim PhD(1) (1) Research Team for Promoting Independence and Mental Health, Tokyo Metropolitan Institute of Gerontology(2) Department of Physical Therapy, Saitama Prefectural University (3) Faculty of Health and Sport Sciences, University of Tsukuba (4) Kyowa Co., Ltd. Itabashi-ku Tokyo (Japan)

P166 • Effect of sit-to-stand exercises combined with protein-rich oral supplementation in older persons: The OPEN Study

A Boström, Karolinska Institutet, Helena Grönstedt1, Sofia Vikström2, Tommy Cederholm3, Erika Franzén4, Yvette C Luiking5, Åke Seiger6, Anders Wimo7, Gerd Faxén-Irving8
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P167 • Design and Population Baseline Features of the SARA-OBS Study: Characterizing SARcopenia and Sarcopenic Obesity in Patients Aged 65 years and over, at Risk of Mobility Disability

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P168 • Development of Automated Ultrasonic Muscle Mass Measurement System and Sarcopenia Clinical Research

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P169 • Spontaneous physical activity level in sarcopenic older women submitted to resistance training and supplementation with fish oil.

Eduardo Ferrioli, MD, PhD 1. Natália Maira da Cruz Alves MSc1, Carolyn Anne Greig PhD2, Karina Pfrimer PhD1, Priscila Carvalho MSc3, Ellen Cristine de Freitas PhD3, Thiago Neves MSc1, Olga Laura Sena Almeida MD1, Daniela Dalpube MSc1, Roberta Cristina Cintra Taveira BSc1, (1) Department of Clinical Medicine, Faculty of Medicine of Ribeirão Preto - University of São Paulo (USP), Ribeirão Preto, SP, Brazil(2) School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham - Edgbaston, Birmingham - UK (3) São Paulo State University (Unesp), Araraquara, SP, (Brazil)

FUNCTIONAL ASSESSMENT

P170 • Sensor-based Physical Frailty and Cognitive Function Measures as Predictors of In-Hospital Outcomes in Abdominal Surgical Patients

Martha Ruiz 1; Audrey Cohen2, Miguel Pena2; Mohammad Hamidi, MD3; Bellal Joseph, MD3; Hossein Ehsani, PhD2; Mindy Fain, MD4,5; Jane Mohler, PhD2,4,5; Nima Toosizadeh, PhD2,4,5 (1) Department of Public Health, University of Arizona, Tucson, Arizona, USA - (2) Department of Biomedical Engineering, College of Engineering, University of Arizona, Tucson, Arizona, USA - (3) Department of Surgery, College of Medicine, University of Arizona, Tucson, Arizona, USA - (4) Arizona Center on Aging, University of Arizona, Tucson, Arizona, USA - (5) Division of Geriatrics, General Internal Medicine and Palliative Medicine, Department of Medicine, University of Arizona, Tucson, Arizona, (USA)

P171 • Quality vs. Quantity of Gait: Repeatability of Sensor-based Walking Characterization in Older Adults

Danya Pradeep Kumar 1(1), Kaveh Laksari(1,3), Christopher Wendel(2), Jane Mohler(1,2), Hossein Ehsani(2), Nima Toosizadeh(1,2,4) - (1) Department of Biomedical Engineering, University of Arizona, Tucson, AZ, USA - (2) Arizona Center on Aging, Department of Medicine, University of Arizona, Tucson, AZ, USA (3) Department of Aerospace and Mechanical Engineering, University of Arizona, Tucson, AZ, USA - (4) Division of Geriatrics, General Internal Medicine and Palliative Medicine, Department of Medicine, University of Arizona, Tucson, AZ, (USA)

P172 • The usefulness of lower leg muscle ultrasonography in the detection of sarcopenia and the evaluation of muscle quality in older adults

Ken Sugimoto (a), Masaaki Isaka(a),(b), Taku Fujimoto(a), Yukiko Yasunobe(a), Hiroshi Akasaka(a), Keyu Xie(a), Shino Yoshida(a), Yuri Onishi(a), Hitomi Kurinami(a), Yasushi Takeya(a), Koichi Yamamoto(a), Hiromi Rakugi(a) - a Geriatric and General Medicine, Osaka University Graduate School of Medicine, Suita, Osaka, Japan - b Physical Therapy, Osaka Yukioka College of Health Science, Ibaraki, Osaka, (Japan)

P173 • Phase Angle and Physical Performance Measures in Community Dwelling Older Adults from Brazil

Ricardo Oliveira Guerra 1, Matheus Lucena Germano1; Cristiano dos Santos Gomes1; Juliana Fernandes de Sousa Barbosa1,2; Raysa Freitas1,3; Alvaro Campos C. Maciel1 1 Federal University of Rio Grande do Norte – Brazil; 2 Federal University of Pernambuco - Brazil; 3 University of Melbourne- (Australia)

P174 • Physical Domain of the Kihon Checklist: A possible surrogate for physical function tests in older people

Shosuke Satake1, 2, Kaori Kinoshita1, Yasumoto Matsui3, Hidenori Arai4 1 Section of frailty prevention, Department of Frailty Research, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology (NCGG) 2 Department of Geriatric Medicine, NCGG 3 Department of Orthopedics, NCGG 4 President, NCGG Obu, (Japan)

P175 • Relationship between a Newly Developed Hand Grip Strength Measurement System and the Kihon Checklist for assessing for Frailty Status

Yasuo Suzuki 1,2, Yasumoto Matsui1, Yuji Hirano1, Izumi Kondo1, Tetuya Nemoto1, Naoki Itoh1, Hidenori Arai1 1 National Center for Geriatrics and Gerontology, Japan 2 Nihon Fukushi University, (Japan)

P176 • Identification of Community-Dwelling Older Adults with Shoulder Dysfunction: Evaluation of the DASH survey

D Davis, Dept. of Diagnostic Radiology & Nuclear Medicine, (USA) - Ranyah Almadawi, MBBS, MPH, University of Maryland School of Medicine Rao Gullapalli, PhD, MBA, University of Maryland School of Medicine Michael Terrin, MD, CM, MPH, University of Maryland School of Maryland (USA)

P177 • Association between physical fitness and estimated glomerular filtration rate in elderly persons

Jae Seung Chang, PhD1,3 and In Deok Kong, MD, PhD2,3 - (1) Mitohormesis research center, (2) Department of Physiology, (3) Yonsei Institute of Sports Science & Exercise Medicine, Yonsei University Wonju College of Medicine, (Korea)

P178 • Using SARC-F to screen low muscle strength and physical performance among community-dwelling older adults from Northeast Brazil

Saionara Maria Aires da Câmara, PT, PhD1; Allen Suzanne França, PT1; Pedro Rafael de Souza Macêdo, PT1; Tiago Novais Rocha, PT1.

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P179 • Association between menopausal status and diagnostic criteria for sarcopenia among community-dwelling middle-aged women

Saionara Maria Aires da Câmara, Saionara Maria Aires da Câmara, PT, PhD1; Pedro Rafael de Souza Macêdo, PT1; Tiago Novais Rocha, PT1; Allen Suzanne França, PT1; Catherine Pirkle, PhD2.(1) Faculty of Health Sciences of Trairi, Federal University of Rio Grande do Norte, Santa Cruz, RN, Brazil (2) Office of Public Health Studies, University of Hawaii at Manoa, Honolulu, HI, USA

P180 • The Preliminary Study Related to Postural Stability in Elderly Patients

Kiyoshi Inoue, MD1 (1)Saiseikai Mukojima Hospital (Japan)

P181 • Physical performance in a healthy community-dwelling older cohort - which are most relevant tests for the identification of deterioration? Longitudinal data of the AEQUIPA -Versa study

Diekman R, PhD (1), Hellmers S (1), Lau S (2), Bauer JM, MD, PhD (2), Hein A, PhD (1) (1) Assistive Systems and Medical Devices, Department of Health Services Research, Carl von Ossietzky University Oldenburg, Germany (2) Geriatric Medicine, Heidelberg University, AGAPLESION BETHANIEN KRANKENHAUS HEIDELBERG, Ruprecht-Karls-Universität Heidelberg, (Germany)

P182 • Low muscle mass, sarcopenia and their association with the Comprehensive Geriatric Assessment in older cancer patients

Cecília Helena Peinado de Sampaio Mattos MsC1; Olga Laura Sena Almeida MD1; Natália Maira da Cruz Alves MsC1; Karina Pfrimer, PhD1; Fernanda Maris Peria MD, PhD2; Eduardo Ferrioli MD, PhD1. - Affiliations: 1Department of Internal Medicine, Ribeirão Preto Medical School, University of São Paulo; 2Department of Medical Images, Hematology and Medical Oncology, Ribeirão Preto Medical School, University of São Paulo.(Brazil)

P183 • Relation of functional capacity, mobility and inflammatory mediators in community older women

Lygia Paccini Lustosa, MD, PhD1 - Patricia Parreira Batista, MD1 - Jéssica Rodrigues de Almeida, MD1 - André Gustavo Pereira de Andrade, MD, PhD2 Aimée de Araújo Cabral Pelizari, MD1 Stephanie Aguiar, 1 - Leani de Souza Máximo Pereira, MD, PhD1 - (1) Physical Therapy Department - Universidade Federal de Minas Gerais - UFMG - EEFETO - Belo Horizonte- MG - Brazil- (2) Sports department - Universidade Federal de Minas Gerais - UFMG - EEFETO - Belo Horizonte- MG - (Brazil)

P184 • Relationship between subjective well-being, functionality and inflammatory mediators in community older women

Patricia Parreira Batista, MD1 Stephanie Aguiar, 1 André Gustavo Pereira de Andrade, MD, PhD2 Jéssica Rodrigues de Almeida, MD1 Leani de Souza Máximo Pereira, MD, PhD1 Lygia Paccini Lustosa, MD, PhD1 (1) Physical Therapy Department - Universidade federal de Minas Gerais - UFMG - EEFETO - Belo Horizonte-MG - Brazil (2) Sports department - Universidade federal de Minas Gerais - UFMG - EEFETO - Belo Horizonte - MG - (Brazil)

P185 • State of the Science of Technology Use and Frailty for Community Dwelling Older Adults: A Scoping Review

Chava Pollak MSN, RN, FNP-BC1 Sharon Wexler, PhD, RN, FNGNA1 Lin Drury, PhD, RN, FNGNA1 (1)Pace University, New York, NY, (USA)

P186 • Association between postural alterations, gait, balance, and strength with frailty and falls in older veterans: a study protocol

Edgar Ramos Vieira PT, PhD (1), Inae C. Gadotti, PT, PhD (1), Raquel Aparicio Ugarriza, PhD (2,3), Fernanda Civitella, DPT (1), Jorge G. Ruiz, MD (2,4) - (1) Department of Physical Therapy, Florida International University, Miami, FL, USA (2) VA Geriatric Research, Education and Clinical Center - GRECC, Miami, FL, USA (3) Department of Public Health, University of Miami Miller School of Medicine. Miami, FL, USA (4) Department of Medicine, University of Miami Miller School of Medicine. Miami, FL, (USA)

P187 • Sarcopenia of respiratory muscles and malnutrition induce onset and recurrence of pneumonia in aged people

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P188 • Depression and polypharmacy impacts on the physical function of older adults with hiv. data from the hiv-funcfrail study

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BIOMARKERS AND IMAGING

P189 • Acute sarcopenia in hospitalized older people: assessment of muscle stiffness through elastography

Bastijns Sophie De Cock Anne-Marie, Vandewoude Maurits, Perkisas Stany University of Antwerp, Antwerp, (Belgium)

P190 • A combined MRI measurement of muscle volume and muscle fat infiltration predicts survival in hemodialysis

Ainhoa Indurain MD1,2, Jennifer Linge MSc3, Mikael Petersson PhD3, Tobias Romu PhD3, Fredrik Uhlin RN, PhD1,4, Anders Fernström MD, PhD1, Mårten Segelmark MD, PhD1,6, Olof Dahlqvist Leinhard3,5,7 - (1) Departments of Nephrology and Medical and Health Sciences, Linköping University, Linköping, Sweden. - (2) Departments of Acute Internal Medicine and Geriatrics and Medical and Health Sciences, Linköping University, Linköping, Sweden. (3) AMRA Medical AB, Linköping, Sweden. - (4) Department of Health Technologies, Tallinn University of Technology, Tallinn, Estonia. - (5) Department of Medical and Health Sciences, Linköping University, Linköping, Sweden. - (6) Nephrology, Department of Clinical Sciences, Lund University, Lund, Sweden. (7) Center for Medical Image Science and Visualization (CMIV), Linköping University, Linköping, (Sweden)

P191 • Bone Analytes as Biomarkers of Frailty and Cardiovascular Disease Risk in Females

Kevin Boreskie MSc1,2, Chris Oldfield, BKin1, Jacqueline Hay, MSc1, Rakesh Arora, MD, PhD2, Todd Duhamel, PhD1 (1) Institute of Cardiovascular Sciences, St. Boniface Hospital Albrechtsen Research Centre, Winnipeg, Manitoba, Canada (2) Max Rady College of Medicine, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, Manitoba, Canada (3) Department of Surgery, Max Rady College of Medicine, University of Manitoba, Winnipeg, Manitoba, (Canada)

P192 • Loss of skeletal muscle and adiposity measured by computed tomography predicts survival in advanced biliary tract cancer patients

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P193 • Dual Biomarker Approach to Distinguish Cardiac and Non-Cardiac Frailty

Erik Fung MB ChB, PhD1, Qi Li MB1, Suyi Xie MSc1, Leong Ting Lui PhD1, Jean Woo MD1 (1) Faculty of Medicine, The Chinese University of Hong Kong, (Hong Kong)

P194 • Atrophy of hippocampus, parahippocampus and entorhinal cortex measured with MRI in elderly with frailty compared normal and pre-frailty

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P195 • Low Alanine Aminotransferase (ALT) blood levels are associated with high 1-year mortality rates in older adults following rehabilitation for hip fracture

Rasekh Kashkosh - 1; Irina Gringauz - 1; Jonathan Weissmann - 2; Gad Segal - 3,4; Michael Swartzon - 5; Abraham Adunsky - 1,4; Dan Justo - 1,4 1 -Geriatrics Division, Sheba Medical Center, Tel-Hashomer, Israel 2 - Biomedical Engineering Department, Tel-Aviv University, Israel 3 - Department of Internal Medicine T, Sheba Medical Center, Tel-Hashomer, Israel 4 - Sackler School of Medicine, Tel-Aviv University, Israel 5 - Miami Orthopedics and Sports Medicine Institute, Miami, Florida (USA)

P196 • Circulatory pattern of cytokines, adipokines and bone markers in postmenopausal women with low bmd

Fawaz Azizieh PhD1, Dia Shehab, MD2, Khaled Al Jarallah, MD2, Renu Gupta, MD2, Raj Raghupathy, PhD2 (1) Gulf University for Science & Technology, Mubarak Al-Abdullah Area, Kuwait, (2) Faculty of Medicine, Kuwait University, Jabriya, (Kuwait)

P197 • Associations between diffusion tensor imaging parameters and SPPB scores in older adults

Lingxiao He 1, Philippe Barreto1, Yves Rolland1, Bruno Vellas1, the MAPT/DISA Study Group 1Gérontopôle de Toulouse, Institut du Vieillissement, Centre Hospitalo-Universitaire de Toulouse, 37 allée Jules Guesdes, 31000 Toulouse, (France)

P198 • Muscle Texture Features Derived from Computed Tomography (CT) are Associated with All-Cause Mortality in Older Adults

Leon Lenchik MD1, Ryan Barnard MS1, Peggy M. Cawthon PhD2, Stephen B. Kritchevsky PhD1, Robert D. Boutin MD3, Fang-Chi Hsu PhD1 (1) Wake Forest School of Medicine, Winston-Salem, NC, USA (2) University of California San Francisco, San Francisco, CA, (USA)

P199 • Usefulness of serum growth differentiation factor 15 as a biomarker of sarcopenia in community-dwelling older adults

Miji Kim PhD (1) and Chang Won Won, MD, PhD (2) (1) Department of Biomedical Science and Technology, College of Medicine, East-West Medical Research Institute, Kyung Hee University, Seoul, Korea (2) Department of Family Medicine, College of Medicine, Kyung Hee University, Seoul, (Korea)

P200 • Biomarkers of frailty in community-dwelling older adults – A literature review focusing on the link between nutrition and frailty
Zhongyuan Liu MPH, RDN1, Hui Ling Tai2, Dieu Thi Thu Huynh, MD, PhD1 1 Abbott Nutrition Research and Development, Asia-Pacific Center, Singapore 2 Department of Biological Sciences, National University of Singapore (Singapore)

P201 • The validation of ultrasonographic measures of quadriceps muscle mass in patients with End Stage Liver Disease
Jonathan Quinlan, BSc PhD1,2,3, Amritpal Dhaliwal, MBChB MRCP UK2,3, Felicity Williams, MSc MCSP2,3, Matthew Armstrong, PhD MRCP3,4 - Leigh Breen, PhD FECSS1,3,5, Ahmed Elsharkawy, PhD MRCP3,4, Carolyn Greig, MSc PhD FPhysio1,3,5, Janet Lord PhD FMedSci2,3,5 (1) School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham, UK (2) Institute of Inflammation and Ageing, University of Birmingham, UK (3) NIHR Birmingham Biomedical Research Centre, University Hospitals Birmingham, NHS Foundation Trust and University of Birmingham, UK (4) University of Hospitals of Birmingham NHS Trust, Birmingham, UK (5) MRC-Versus Arthritis Centre for Musculoskeletal Ageing Research, University of Birmingham, (UK)

P202 • A Rapid Point of Care Ultrasound Marker for Muscle Mass and Muscle Strength in Older Adults
Kenneth M. Madden (1,2,3) Boris Feldman (2,3) Shane Arishenkoff (3) Graydon S. Meneilly (1,3) 1. Gerontology and Diabetes Research Laboratory, Division of Geriatric Medicine, Department of Medicine, University of British Columbia, Vancouver, British Columbia, Canada 2. Centre for Hip Health and Mobility, University of British Columbia, Vancouver, British Columbia, Canada 3. Department of Medicine, University of British Columbia, Vancouver, British Columbia, (Canada)

NEW DRUG DEVELOPMENTS

P203 • Effect of Loquat Leaf Extract on Muscle Contraction-Induced Muscle Protein Synthesis Signaling Pathway
Riki Kosugi BS1, Yung-Li Hung PhD2, Toshiharu Natsume PhD2, Shuichi Machida PhD2 (1)Faculty of Health and Sports Science, Juntendo University, Inzai, Chiba, Japan (2)Graduate School of Health and Sports Science, Juntendo University, Inzai, Chiba, (Japan)

P204 • Kynurenic Acid, a new therapy for metabolic aging
Raynal Sophie PhD, Mouveaux Fawzia, Nijman Armel, Bardin-Deval Karine, Kergoat Micheline PhD, Autier Valérie PhD Metabrain Research, Maisons-Alfort, France

PHYSICAL EXERCISE

P205 • Physical Exercise in a Virtual Environment Context to Improve Physical Functioning in the Elderly
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P206 • The effects of high intensity interval training on circulating and muscle microRNA levels and influence of L-Citrulline
Rousseau Jean-Charles, PhD 1, Noirez Philippe PhD 2,3, Morais José MD 4, Aubertin-Leheudre Mylène PhD 3 et Chapurlat Roland MD, PhD 1,5,6 1 INSERM 1033, Lyon, France - 2 UFR des Sciences et Techniques des Activités Physiques et Sportives de Paris, Université Paris-Descartes, Paris, France 3 Département des Sciences de l'Activité Physique, Université du Québec à Montréal, Montréal, Québec, Canada - 4 Faculté de Médecine, Département de Gériatrie, Université McGill, Montréal, Québec, Canada - 5 Hôpital E. Herriot, Hospices Civils de Lyon, Lyon, France - 6 Université de Lyon, Lyon, (France)

P207 • From Hospital to DOMicile (the HoDOM project): a prescribed easy-to-do multicomponent intervention to counter frailty in older adults
Kristell Pothier, PhD(1), Elina Van Dendaele, BSc(1), Amal Aïdoud, MD(2), Clara Le Douget, BSc(1), Noémie Ferrec, BSc(1), Nathalie Bailly, PhD(1), Bertrand Fougere, MD, PhD(2) (1) Université de Tours, EA 2114, Laboratoire de Psychologie des Ages de la Vie et Adaptation (PAVeA) (2) Centre Hospitalier Régional Universitaire de Tours, Service de gériatrie (France)

P208 • Opportunities for prehabilitation in advanced ovarian cancer patients
Amanika Kumar, MD (1), Clarissa Polen-De, MD (1), Gladys Asiedu, PhD (1) Carrie Langstraat, MD (1), Aminah Jatoi, MD (1) (1) Mayo Clinic, Rochester, Minnesota, (USA)

P209 • Differences of Exercise Programs on the Gait Characteristics of Older Adults with Subjective Cognitive Decline: Randomized Control Trial
Kosuke Fujita, PT, MSc1,2; Hiroki Umegaki, MD, PhD2; Aiko Inoue, PhD1; Huang Chi Hsien, MD, MSc1,2; Hiroyuki Shimada, PT, PhD3; Masahumi Kuzuya, MD, PhD1,2 1) Institute of Innovation for Future Society, Nagoya University Nagoya, Japan. 2) Department of Community Healthcare and Geriatrics, Nagoya University Graduate School of Medicine Nagoya, Japan. 3) Department of Preventive Gerontology, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology Obu, (Japan)

P210 • The effects of GAMotion (a giant exercising board game) on physical capacity, motivation and quality of life among nursing home residents: a randomized controlled trial
Fanny Buckinx, PhD (1), Quentin Marchal, M.Sc. (2), Paulin Hurtrez, M.Sc. (2), Olivier Bruyère, PhD (1,2), Jean-Yves Reginster, MD, PhD (1), Alexandre Mouton, PhD (2) - (1) WHO Collaborating Center for Public Health aspects of musculo-skeletal health and ageing. Division of Public Health, Epidemiology and Health Economics, University of Liège, Belgium. - (2) Department of Sport and Rehabilitation Sciences, Multidisciplinary Research Unit on Health and Society, University of Liège, Liège, (Belgium)

P211 • Physical exercise and health education in Hospitalized Fragile Elderly in a Geriatrics Acute Unit: Preliminary results of the AGE CAR PLUS Study
Jennifer Mayordomo Cava, PhD MSc,1,2,3 Sofia González Chavez BM Resident in Geriatrics,1 Cristina Carrasco BM Resident in Geriatrics,1 Teresa Zarralanga Lasobras PT,2 Johanna Vásquez Grande BM Resident in Geriatrics,1 Fernando Gómez-Olano Picabea BM Resident in Geriatrics,1 Iván Ariza Segovia MD Resident in Geriatrics,1 Javier Ortiz Alonso, MD 1,2,3,4 José Antonio Serra Rexach, MD,PhD,1,2,3,4 - 1. Geriatrics Department, Hospital General Universitario Gregorio Marañón, Madrid, Spain. - 2. Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, Spain. - 3. Consorcio de Investigación en Red Fragilidad y Envejecimiento Saludable, CIBERFES, Madrid, Spain. 4. Facultad de Medicina, Universidad Complutense de Madrid, (Spain)

P212 • Effect of a physical exercise program on the functional capacity of hospitalized elderly: Preliminary analysis of the functional assessment using Alusti test. AGE CAR PLUS Study
Sofia González Chávez, BM.,1 Jennifer Mayordomo-Cava PhD MSc.,1,2,3* Cristina Carrasco BM.,1 Teresa Zarralanga Lasobras PT,2 Johanna Vásquez Grande BM,1 Paula Lavandera BM.,1 Fernando Gómez-Olano Picabea BM.,1 Iván Ariza Segovia MD,1 Ana Grau BM.,1 Paula Aldama BM.,1 José Antonio Serra Rexach, MD PhD,1,2,3,4* 1. Geriatrics Department, Hospital General Universitario Gregorio Marañón, Madrid, Spain. 2. Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, Spain. 3. Consorcio de Investigación en Red Fragilidad y Envejecimiento Saludable, CIBERFES, Madrid, Spain. 4. Facultad de Medicina, Universidad Complutense de Madrid, (Spain)

P213 • Associations of physical fitness components with cognitive function among older adults with dementia
Sampaio, Arnaldina, 1; Marques-Aleixo, Inês1,2; Carvalho, Joana1 - 1 CIAFEL - Research Center in Physical Activity, Health and Leisure, Faculty of Sport, University of Porto, Portugal 2 Faculty of Psychology, Education and Sports, Lusófona University of Porto, (Portugal)

P214 • Sex difference in association of physical and/or cognitive activity with cognitive impairment in older adults
Satoshi Kurita, MS (1), Takehiko Doi PhD, PT (1), Kota Tsutsumimoto PhD, PT (1), Sho Nakakubo PhD, PT (1), Hideaki Ishii PhD, PT (1), Hiroyuki Shimada PhD, PT (1) - (1) Section for Health Promotion, Department of Preventive Gerontology, Center for Gerontology and Social Science, National Center for Geriatrics and Gerontology, Aichi, (Japan)

P215 • Optimal resistance exercise training for older adults to increase muscle mass: A systematic review and meta-analyses
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P216 • The association between different combinations of physical activity and sedentary time on the risk of frailty

Duarte Barros, MSc, Andreia Pizarro, PhD, Arnaldina Sampaio, PhD, Joana Carvalho, PhD, Porto (Portugal)

P217 • DEFRAIL (Diet and Exercise for Frailty): Preliminary results on the effect of a novel multi-component group exercise program and protein supplementation on frailty in older adults

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P218 • The effect of a targeted exercise intervention delivered to mildly frail older people identified using the electronic Frailty Index

Nimra Khan, Gurch Randhawa, David Hewson (Institute for Health Research, University of Bedfordshire) (UK)

P219 • Effect of Different Exercise Programs on Frailty in older adults living in Long-Term Nursing Home Residents: the Aging-On Dual-Task randomized controlled trial

Chloe Rezola-Pardo, MSc¹, Susana Maria Gil PhD¹, Haritz Arrieta MSc¹, Jose Javier Yanguas PhD², Leire Goikoetxea BSc³, Jon Irazusta PhD¹, Ana Rodriguez-Larrad PhD¹. (1) Department of Physiology, University of the Basque Country, Leioa, Bizkaia, Spain (2) Fundación Bancaria "La Caixa". Plaça Weyler, 3, 07001 Palma (Illes Balears), Spain (3) Centro Julián Rezola, Matia Fundazioa, Donostia, (Spain)

P220 • Effect of resistance training on muscle fiber after resistance training in elderly men

Philippe Noirez, (PhD)^{1,2}, Iraj Hashemi¹, Deborah Kopoin¹, Pierrette Gaudreau (PhD)³, Marc Bélanger (PhD)², Gilles Gouspillou (PhD)², José A Morais (MD, PhD)⁴, Aubertin-Leheudre (PhD)¹ 1 INSERM U1124, Université de Paris, Paris, (France) 2 Department of Exercise Science, Université du Québec à Montréal, Montréal, Canada 3 Département de médecine, Université de Montréal, Montréal, Canada 4 Division of Geriatric Medicine, McGill University Health Centre, Montreal General Hospital, Montreal, (Canada)

P221 • Role of Sedentary Behavior and Physical Activity in Skeletal Muscle Health in Middle-Aged Men and Women

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P222 • Functional performance and inflammatory mediators between active and sedentary community older women

Patricia Parreira Batista, MD¹ André Gustavo Pereira de Andrade, MD, PhD² Jéssica Rodrigues de Almeida, MD¹ Aimée de Araújo Cabral Pelizari, MD¹ Leani de Souza Máximo Pereira, MD, PhD¹ Lygia Paccini Lustosa, MD, PhD¹ (1) Physical Therapy Department - Universidade Federal de Minas Gerais - UFMG - EEEFTO - Belo horizonte - MG - BRAZIL (2) Sports department - Universidade Federal de Minas Gerais - UFMG - EEEFTO - Belo horizonte - MG - (Brazil)

P223 • Long-term effects of comprehensive geriatric intervention in community-dwelling older adults

Yuya Watanabe, (Doshisha University) Tsukasa Yoshida (National Institutes of Biomedical Innovation, Health and Nutrition) Yosuke Yamada (National Institutes of Biomedical Innovation, Health and Nutrition) Keiichi Yokoyama (Kyoto University of Advanced Science) Emi Yamagata (Doshisha Women's College of Liberal Arts) Motoko Miyake (Kyoto University of Advanced Science) Yasuko Yoshinaka (Kyoto University of Advanced Science) Misaka Kimura (Kyoto University of Advanced Science) (Japan)

P224 • Reduced cognitive deficits in mild cognitive impairment subjects and alzheimer disease moderate patients by non-pharmacological therapeutic

Ben Ayed, I a, c ; Castor, N.c ; Bouwazra, R.a ; Aouichaoui, Ch.a ; Ben Omor, S. b ; Tabka, Z.a and El Massioui, F.c - A Département de Physiologie et des Explorations Fonctionnelles, Unité de Recherche Physiologie de l'exercice et Physiopathologie : de l'intégré au Moléculaire « Biologie, Médecine et Santé » (UR12ES06), Faculté de Médecine de Sousse - Tunisie. - B Service de Neurologie, Hôpital Universitaire Sahloul Sousse Tunisie. - C Laboratoire Cognition Humaine et artificielle (CHart ; EA 4004), UFR de Psychologie. Université Vincennes / Saint-Denis ; Paris 8 - (France)

P225 • Effectiveness of a multimodal intervention for preventing mobility disability risk on elders with diagnosis of sarcopenia

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P226 • HIIT to counteract pre-sarcopenia in middle-aged adults, a randomized controlled trial

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P227 • Impact of current physical activity level on functional capacities and body composition among elderly people: Does age and sex matter?

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P228 • An individualized and progressive multicomponent physical exercise program focused on functioning maintains autonomy and reduces frailty in long term care homes. single group interventional study

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P229 • Low pre-training serum albumin level might restrict the effect of low-load resistance training on muscle thickness

Shuji Sawada PhD¹, Hayao Ozaki, PhD^{1,2}, Toshiharu Natsume, PhD¹, Daiki Nakano MS¹, Pengyu Deng, PhD¹, Toshinori Yoshihara, PhD¹, Takuya Osawa, PhD³, Shuichi Machida, PhD¹, Hisashi Naito, PhD¹ (1) Juntendo University, Chiba, Japan (2) Tokai Gakuen University, Aichi, Japan (3) Japan Women's College of Physical Education, Tokyo, (Japan)

P230 • Complex kinesiotherapy in muscle function and weight loss improving in obesity patients

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P231 • Effects of a new exergame on older adults' balance and Short Physical Performance Battery (SPPB) scores

Edgar R Vieira, PhD (3), Thaiana Pacheco, MSc (1), Candice Medeiros, MSc (1), Rummenigge Dantas, PhD (2), Inae C. Gadotti, PhD (3), Fabrícia Costa Cavalcanti, PhD (1) Department of Physical Therapy, Florida International University - Miami (USA)

P232 • Feasibility and preliminary effects of Silver Yoga on the physical health in prefrail older adults: A pilot study

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NUTRITION INTERVENTION

P233 • The effects of omega-3 supplementation on systemic inflammation and muscular adaptations to resistance exercise in elderly: a randomized controlled trial

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P234 • Prioritising early nutritional intervention to help prevent worsening sarcopenia and deconditioning in the acute setting for the over 75s

Marriyah Hasan, Nutrition and Dietetics, St. Peter's Hospital, United Kingdom, Meera Suresh- Senior Adult Medical Services, St. Peter's Hospital, Chertsey United Kingdom Clarence Chikusu- Senior Adult Medical Services, St. Peter's Hospital, Chertsey United Kingdom Caroline Goodger- Nutrition and Dietetics, St. Peter's Hospital, Chertsey (UK)

P235 • Inadequate protein intake in (pre)sarcopenic older people can be improved with a protein powder supplementation without affecting dietary protein or energy intake.

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P236 • Larger health benefits in severe obese (BMI over 35) older adults with type 2 diabetes during combined lifestyle intervention

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P237 • Factors influencing the efficacy of nutritional interventions on muscle mass in older adults: A systematic review and meta-analysis

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P238 • Effects of Citrulline with or without exercise on muscle function and physical performance among older adults: a systematic review

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P239 • The FortiFit (R) clinical trial program for sarcopenia, a condition of muscle loss

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INTRINSIC CAPACITY

P240 • Relationships among Knowledge, Health Literacy, and Health Behavior in Older Persons with Chronic Kidney Disease

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P241 • Intrinsic capacity: a social inequality and life course perspective

Emmanuel Gonzalez-Bautista, MD MSc1, Kelly Virecoulon Giudici PhD1, Maria Montoya Martínez MD1, Philippe De Souto Barreto PhD1. (1)Gérontopôle of Toulouse, Institute of Ageing, Toulouse University Hospital (CHU Toulouse) (France)

P242 • Frail adults exhibit a 25% lower intrinsic capacity than robust in the population of the Toulouse Frailty Hospital

Emmanuel González-Bautista 1-3, Philippe de Souto Barreto 1-3, Sandrine Sourdet 1-3, Davide Angioni 1-3, Yves Rolland 1-3, Bruno Vellas 1-3 Institute of Aging, Gérontopôle of Toulouse, Toulouse University Hospital, University of Toulouse 3 (France)

INTEGRATED CARE (ICOPE)

P243 • A multimodal exercise program for improving muscle function in elderly from the peruvian air force hospital in 2018

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P244 • Factors Predicting Professional Nurses' Caring Behavior for Older Persons in a University Hospital

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P245 • The role of the social context in frail hospitalized patients

Enrica Patrizio, Università degli Studi di Milano, Milan, Italy 2. David Rigamonti, Università degli Studi di Milano, Milan, Italy 3. Paolo Rossi, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy 4. Matteo Cesari, Università degli Studi di Milano, Milan, (Italy)

P246 • Integrated Care in the Emergency Department by Early CGA & Therapist Intervention

Clarence Mwelwa Patrick Chikusu, Amritha Narayanan, Meera Suresh, Francesca Rawlings, Asadullah Khan - Ashford & St Peters NHS Foundation Trust Ferass Abbasi - Ashford & St Peters NHS Foundation Trust (UK)

P247 • Clinical benefits of Integrated Invention Program for Frailty in Taiwan

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BODY COMPOSITION

P248 • Single-Frequency Bioimpedance Analysis Equation for Estimation of Appendicular Skeletal Muscle Mass in Community-Dwelling Singaporean Older Adults

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P249 • Middle-aged men with low appendicular lean mass have low bone mineral density: WASEDA'S Health Study

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P250 • Appendicular multi-frequency bioelectrical impedance parameter and its equations in the assessment of sarcopenia

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P251 • Greater protein intakes are associated with improved body composition in women

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P252 • Prediction Equation for Muscle Mass overestimates Muscle Mass In Patients with Rheumatoid Arthritis

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P253 • SARCOPENIC OBESITY: Prospective descriptive study of the hospitalized geriatric population

Marie Gédon, Jérôme Boulé MD (1), Didier Albert MD (1), Muriel Rainfray, MD, PhD (2), Claire Roubaud, MD, PhD (2) Isabelle Bourdel-Marchasson, MD, PhD (2) Geriatric Department, Pau Hospital, Pau, Nouvelle Aquitaine, France (2) Geriatric Department, Bordeaux University, Bordeaux, Nouvelle Aquitaine, (France)

P254 • Comparative effectiveness of three methods for body composition assessment in the verification of manifestations of sarcopenia in obese patients

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P255 • High Lipid Accumulation Product and low estimated Glucose Disposal Rate indicate increased cardio-metabolic risk and decreased insulin sensitivity in postmenopausal women with sarcopenic obesity

Eleonora Poggiogalle, Carla Lubrano, Lucio Gnassi, Stefania Mariani, Mikiko Watanabe, Andrea Lenzi, Lorenzo Maria Donini Department of Experimental Medicine, Sapienza University, Rome, (Italy)

BIOLOGY OF AGING

P256 • Older adults with leg extensor weakness exhibit increased voluntary inactivation and corticospinal hypoexcitability

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P257 Age-related reductions in the ability of the CNS to rapidly activate muscles is a key contributor to mobility limitations

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P258 • The neurodegenerative disease Dominant Optic Atrophy and oxidative metabolism: a complex crosstalk analysed with mathematical modeling

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P259 • Impact of frailty on chemotherapy delivery for advanced ovarian cancer

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P260 • Correlation between Gait Speed and LPS-Stimulated Cytokine Production in Older Adults Undergoing Procedures: A Pilot Study

Thomas Laskow 1, Huanle Yang1, Brian Buta2, Frederick Sieber1, Julius Oni1, Mara McAdams-DeMarco2, Deidra Crews1, Ravi Varadhan2, Karen Bandeen-Roche2, Jeremy Walston1 – 1. Johns Hopkins School of Medicine, 2. Johns Hopkins Bloomberg School of Public Health (USA)

P261 • Impaired metabolic flexibility in sarcopenic men and women

Vikie A. Mustad, 1, Suzette L. Pereira1, Jose-Maria Lopez2, Ricardo Rueda2, Zachary M. Gillen3, Marni E. Shoemaker3, and Joel T. Cramer3 (1) Abbott Nutrition, Columbus, OH, USA (2) Abbott Nutrition, Granada, Spain; (3) University of Nebraska-Lincoln, Lincoln, NE, (USA)

BIOLOGY OF FRAILTY

P262 • An unexpected role for iNKT cells in skeletal muscle homeostasis

Anton De Spiegeleer, MD1,2,3, - Hasan Kahya, 1,2, - Nele Van Den Noortgate, MD, PhD2, - Evelien Wynendaele, PhD3, - Tine Decruy, 1, - Srinath

Govindarajan, PhD1, - Dirk Elewaut, MD, PhD1 - (1) Unit for Molecular Immunology and Inflammation, VIB-Center for Inflammation Research, Ghent, Belgium. (2) Department of Geriatrics, Faculty of Medicine and Health Sciences, Ghent University Hospital, Ghent, Belgium. (3) Drug Quality and Registration (DruQuAR) group, Faculty of Pharmaceutical Sciences, Ghent University, Ghent, Belgium.

P263 • Exploring the potential relation between immune biomarkers and frailty syndrome in older adults - preliminary results from the BioFrail study

Armanda Teixeira-Gomes MD1,2*, Solange Costa MD, PhD1,2, Bruna Lage MD1,2, Dietmar Fuchs MD, PhD3, Vanessa Valdiglesias MD, PhD1,4, Blanca Laffon MD, PhD4, João Paulo Teixeira MD, PhD1,2 ((1) EPIUnit – Instituto de Saúde Pública da Universidade do Porto, Porto, Portugal;(2) Environmental Health Department, National Institute of Health, Porto, Portugal; (3) ICBAS - Institute of Biomedical Sciences Abel Salazar, University of Porto, Porto, Portugal; (4) Division of Biological Chemistry and Medical Biochemistry, Biocenter, Innsbruck Medical University, Innsbruck, Austria; (5) DICOMOSA Group, Area of Psychobiology, Department of Psychology, University of A Coruña, A Coruña, Spain

P264 • Hemoglobin Concentration: A Pathway to Frailty

Zara Steinmeyer MD 1, Laurent Balardy MD 1, Sandrine Sourdret MD 1 (1) Gérontopôle, Department of Internal Medicine and Geriatrics, Toulouse University Hospital, La Cité de la Santé, Hôpital La Grave, Place Lange, TOULOUSE CEDEX 9, (France)

P265 • The role of monocyte inflammatory activity in frailty and aging - a longitudinal a study of elderly medical patients and age-matched controls

Juliette Tavenier, 1, Line Jee Hartmann Rasmussen1, Jan Nehlin1, Morten Baltzer Houliind1, Aino Leegaard Andersen1, Ove Andersen1, Janne Petersen1,2, Anne Langkilde1 (1) Clinical Research Centre, Copenhagen University Hospital Hvidovre, Hvidovre, Denmark (2) Center for Clinical Research and Prevention, Copenhagen University hospital, Frederiksberg, Denmark and Section of Biostatistics, Department of Public Health, University of Copenhagen, (Denmark)

HEALTH AGING

P266 • The associations between physical abilities, cognitive functions and body weight (for example long-living subjects)

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P267 • A Path Model of Factors Associated with Depressive Symptom among Older People Living in Rural Areas

Suparb Aree-Ue, Ph.D (Nursing)1; Inthira Roopsawang, Ph.D (Nursing)1; Jansudaphan Boontham, Graduate Student (Gerontological Nursing)2; Surinrat Baurangtheinthong, Graduate Student (Gerontological Nursing)2; Yuwadee Phiboonleetrakun, Graduate Student (Gerontological Nursing)2. (1)Ramathibodi School of Nursing, Faculty of Medicine Ramathibodi Hospital, Mahidol University, BKK, THAILAND (2)Faculty of Graduate Studies, Mahidol University, BKK, (Thailand)

P268 • Patients' Expectations to Functional Abilities, Functional Abilities, and Satisfaction to Functional Abilities among Older Adults undergoing Total Knee Arthroplasty: A Correlational Study

Suttivan Chawengkiattikul, MNS (Gerontological Nursing)1; Suparb Aree-Ue, Ph.D (Nursing)2, Phichpraorn Youngcharoen, Ph.D (Nursing)2, Viroj Kawinwonggowit, M.D., Dip. (Orthopedic Surgery)3 (1)Perioperative Nursing Division, Nursing Department, Faculty of Medicine Ramathibodi Hospital, Mahidol University, BKK, THAILAND (2)Ramathibodi School of Nursing, Faculty of Medicine Ramathibodi Hospital, Mahidol University, BKK, THAILAND (3)Department of Orthopedics, Faculty of Medicine Ramathibodi Hospital, Mahidol University, BKK, (Thailand)

OSTEOPOROSIS & SARCOPENIA

P269 • The impact of variation in the device used to measure grip strength on the identification of low muscle strength: Findings from a randomised repeated measurements cross-over trial

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P270 • Quality of life in Chilean older people with sarcopenia

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P271 • Munich sarcopenia registry (IDSAR): First results

Uta Ferrari, MD, MPH 1,3, Marina Schraml1, Ralf Schmidmaier, MD, MME1,3, Navina Röcker1,3, Sigrid Adler-Reichel, MD1,3, Christian Lottspeich, MD1,3, Martin Bidlingmaier, MD1,3, Benedikt Schoser, MD1,3, Sabine Krause, MD1,3, Martin Reincke, MD1,3 and Michael Drey, MD, MSc1,3 - (1) Department of Medicine IV, University Hospital, LMU Munich, Germany - (2) Friedrich Baur Institute at the Department of Neurology, University Hospital, LMU Munich, Germany (3) Preventive geriatrics study group (Germany)

P272 • Adaption and validation of the German version of the screening questionnaire for sarcopenia: SARC-F

Michael Drey, 1, Uta Ferrari1, Marina Schraml1, Wolfgang Kemmler3, Daniel Schoene3, Anna Franke, 2, Ellen Freiburger2, Robert Kob2, Cornel Sieber2 (1) Department of Medicine IV, University Hospital, LMU Munich, Germany (2) Institut für Biomedizin des Alterns, FAU Erlangen-Nürnberg, Kobergerstr. 60, Nürnberg / Institut für Biomedizin des Alterns, FAU Erlangen-Nürnberg, Nürnberg, Germany (3) Institut für Medizinische Physik, FAU Erlangen-Nürnberg, Henkestrasse 91, 91052 Erlangen (Germany)

P273 • Understanding acute sarcopenia: Protocol for a cohort study to characterise acute changes in muscle quantity and physical function in hospitalised older adults

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P274 • C12 myoblast gene knockout to validate the findings of genome-wide association study of muscle traits

Bili Gasman, 1, Gideon Baum1, David Karasik1 (1) Azrieli faculty of medicine, Bar Ilan university (Israel)

P275 • Factor analysis to determine relative contributions of strength, physical performance, body composition and muscle mass to disability and mobility disability outcomes in older men

Jesse Zanker, MBBS, MPHTM1, Terri Blackwell, MA2, Sheena Patel, MS2, Kate Duchowny, MPH, PhD2,3, Sharon Brennan-Olsen, PhD1, Steven R. Cummings, MD2,3, William J. Evans, PhD4,5, Eric S. Orwoll, MD6, David Scott, PhD1,7, Sara Vogrin, MBBS, MBIostat1, Gustavo Duque, MD, PhD1, Peggy M. Cawthon, MPH, PhD2,3 - (1)Department of Medicine-Western Health, University of Melbourne, Melbourne, Victoria, Australia; Australian Institute for Musculoskeletal Science (AIMSS), University of Melbourne and Western Health, Melbourne, Victoria, Australia. (2)Research Institute, California Pacific Medical Center, San Francisco. - (3)Department of Epidemiology and Biostatistics, University of California, San Francisco. - (4)Department of Nutritional Sciences and Toxicology, University of California, Berkeley. - (5)Department of Medicine, Duke University, Durham, North Carolina. - (6)Department of Medicine, Oregon Health and Science University, Portland. - (7)Department of Medicine, School of Clinical Sciences at Monash Health, Monash University, Clayton, Victoria, (Australia)

P276 • Glutamine use in pelvic sarcopenia: a prospective, randomized, placebo controlled study

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P277 • Development and validation of a prognostic screening-tool to predict the risk of pre-sarcopenia in middle-aged adults

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P278 • Loss of estradiol is associated with decreased muscle mass: a follow-up study over menopausal transition

Hanna-Kaarina Juppi, MSc1, Sarianna Sipilä, PhD1, Neil Cronin, PhD2, Pauliina Aukee PhD3, Vuokko Kovanen, PhD1, Tuija Tammelin, PhD4, Sira Karvinen, PhD1 and Eija Laakkonen, PhD1. - (1) Gerontology Research Center, Faculty of Sport and Health Sciences, University of Jyväskylä, Jyväskylä, Finland (2) Faculty of Sport and Health Sciences, University of Jyväskylä, Jyväskylä, Finland - (3) Department of Obstetrics and Gynecology, Department of Pelvic Floor Research and Therapy Unit, Central Finland Central Hospital, Jyväskylä, Finland - (4) LIKES Research Centre for Physical Activity and Health, Jyväskylä, (Finland)

P279 • Impact of sarcopenia to disability incidence in the Japanese older adults

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P280 • Development of a Robust Rescue Assay for Muscle Wasting using Human Primary Myoblasts from Young and Elderly Donors

Joanne Young¹, Eve Duchemin-Pelletier¹, Mélanie Flaender¹, Oana Lorintiu¹, Erwann Ventre¹ and Pauline Poydenot¹ 1 CYTOO

P281 • Reproducible Quantification of Intermuscular Adipose Tissue of the Thigh

O Chaudry Institute of Medical Physics, Friedrich-Alexander-Universität Erlangen-Nürnberg Andreas Friedberger MSc¹, Alexandra Grimm PhD¹, Wolfgang Kemmler PhD¹, Klaus Engelke PhD^{1,2} (1) Institute of Medical Physics, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany (2) Department of Internal Medicine 3, Friedrich-Alexander-Universität Erlangen-Nürnberg and University Hospital Erlangen, Erlangen, (Germany)

P282 • Calf circumference cutoff point to differentiate between community-dwelling older adults from northeastern Brazil with and without sarcopenia: results from pro-eva study

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P283 • Screening of osteosarcopenic older women through Infrared Spectroscopy

Raysa Vanessa de Medeiros Freitas, PhD Candidate^{1,2}; Kassio Michell Gomes de Lima PhD¹; Daniel Lucas Dantas de Freitas PhD Candidate¹; Igor Rafael Damasceno de Oliveira PT¹; Cristiano dos Santos Gomes PdD; Gerlane Coelho Bernardo Guerra PhD¹; Daniele Sirineu PdD³; Paulo Moreira Silva Dantas PhD¹; Gustavo Duque PhD²; Ricardo Oliveira Guerra PhD¹. (1) Federal University of Rio Grande do Norte - Natal, Brazil (2) Australian Institute for Musculoskeletal Science, University of Melbourne and Western Health (3) Federal University of Minas Gerais, Belo Horizonte, (Brazil)

P284 • Sarcopenia in Older Adults Undergoing Cardiac Surgery

Aayushi Joshi BMSc (1,2), Rita Mancini, BSc (1,2), Stephan Probst, MD (3), Jonathan Afilalo MD, PhD (1,2,4) (1) Centre for Clinical Epidemiology, Jewish General Hospital, Montreal, QC, Canada - (2) Division of Experimental Medicine, McGill University, Montreal, QC, Canada - (3) Department of Nuclear Medicine, Jewish General Hospital, McGill University, Montreal, QC, Canada - (4) Division of Cardiology, Jewish General Hospital, McGill University, Montreal, QC, (Canada)

P285 • Can the Five-Times Sit-to-Stand Test be used to assess both muscle strength and physical performance when detecting sarcopenia?

Brajesh Kumar Shukla, Indian Institute of Technology Jodhpur, India - Sandeep Yadav, Indian Institute of Technology Jodhpur, India - Vivek Vijay, Indian Institute of Technology Jodhpur, India - Arvind Mathur, Asian Centre for Medical Education, Research, and Innovation, Jodhpur, India David Hewson, Institute for Health Research, University of Bedfordshire, Luton, (UK)

P286 • Dynapenia and sarcopenia in Costa Rican obese elderly

Isabel Barrientos-Calvo MD, MSc¹ - Nutritional Support Department and Geriatric Department, Geriatric National Hospital, San José, (Costa Rica)

P287 • Prevalence of sarcopenia in Costa Rican elderly people from CRELES study: EWGSOP vs EWGSOP2

Isabel Barrientos-Calvo MD, MSc¹ Nutritional Support Department and Geriatric Department, Geriatric National Hospital, San José (Costa Rica)

P288 • Prevalence of sarcopenia in centenarians from Nicoya, Costa Rica: analysis from a group of patients from a blue zone

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P289 • Prevalence of sarcopenia and associated characteristics in community-dwelling older adults who are at risk of malnutrition in Singapore

Samuel Teong Huang Chew, MBBCHBAO, FRCP1, Siew Ling Tey, PhD2, Jeffery Oliver, MS3, Zhongyuan Liu, RDN, MPH2, Geraldine Baggs, PhD3, Choon How How, MBBS, MCI4,5, Magdalin Cheong, MPH6, Dieu Thi Thu Huynh, MD, PhD2, Ngiam Chuan Tan, MBBS, MCI5,7 Changi General Hospital (Singapore)

P290 • Prevalence and factors associated to sarcopenia in very old community dwelling people with high comorbidity.

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GEROSCIENCE

P291 • Polygenic risk score for disability: Advancing geroscience

Alexander M. Kulminski PhD, Chansuk Kang, MS, Stanislav A. Kolpakov, PhD, Yury Loika, PhD, Alireza Nazarian, PhD, Anatoliy I. Yashin, PhD, Eric Stallard, PhD, and Irina Culminskaya, PhD. Biodemography of Aging Research Unit, Social Science Research Institute, Duke University, Durham, NC 27708-0408, (USA)

P292 • The Inspire Bio-resource Research Platform for Health Aging (the Inspire Platform): Focus on the Human Translational Research Cohort

Sophie Guyonnet PhD¹; Catherine Takeda, MD²; Philippe de Souto Barreto, PhD³; Yves Rolland, MD, PhD¹; Sandrine Andrieu MD, PhD⁴; Bruno Vellas MD, PhD¹ and the Inspire Study Group. (1) Inserm UMR 1027, Toulouse, France; University of Toulouse III, Toulouse, France; Gérontopôle, Department of Geriatrics, CHU Toulouse, Toulouse, France; (2) Gérontopôle, Department of Geriatrics, CHU Toulouse, Toulouse, France; (3) Inserm UMR 1027, Toulouse, France; University of Toulouse III, Toulouse, France; Gérontopôle, Institute of Aging, CHU Toulouse, Toulouse, France; (4) Inserm UMR 1027, Toulouse, France; University of Toulouse III, Toulouse, France Department of Epidemiology and Public Health, CHU Toulouse, Toulouse, (France)

P293 • Long-term Caloric Restriction Prevents Age-related Learning Impairment via SIRT1/AMPK/mTOR Signaling Pathway in mice

Lina Ma, Wen Dong, Baolei Xu, Yun Li, Rong Wang Xuanwu Hospital, Capital Medical University, National Clinical Research Center for Geriatric Diseases, Beijing, (China)

TRANSLATIONAL RESEARCH ON AGING

P294 • Motor unit properties during bed rest with and without artificial gravity exposure – preliminary results from the AGBRESA study

Michael Drey, Julia Attias, Andrea Grassi, Alessandra Bosutti, Hans Degens, Bergita Ganse - Klinikum der Universität München (Germany)

P295 • Detection of frailty of an elderly person by monitoring activities of daily living

Soumaya Msaad, Geoffroy Cormeir, Guy Carrault, LTSI (Laboratoire Traitement du Signal et de l'Image) - Université de Rennes 1 (France)