

## Mobility Medicine: A call to unify hyper-fragmented specialties by abstracts sent to 2025Pdm3, and typescripts to E\_jtm3, and *Diagnosics*

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### Abstract

Mega scientific conferences increasingly suffer from the need for short and poster presentations without discussion. An alternative is to organize workshops in hotels large enough to accommodate all participants. This significantly increases the opportunities for constructive discussion during breakfasts, lunches, dinners and long evenings that can bring together experts of scientific and clinical sub-specialties and young fellows. Time for groups' discussions and new collaborations are increased so as the job opportunities for the young researchers. The Padova Muscle Days have offered in the previous thirty-five years these opportunities, which

## 2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

have matured into innovative and multidisciplinary results to the point that it came naturally to underline it with a neologism now included in the title of the 2025 event: “Mobility Medicine”, a discipline not yet officially recognised, that makes explicit the call for rejoining knowledges dispersed in sub-specialisations. The included program of the Padua Days on Muscle and Mobility Medicine 2025 (2025Pdm3) will be hosted at the Hotel Petrarca in Euganean Thermae (Padua, Italy) from 25 to 29 March 2025. It further testifies by listing unique Sessions that it is possible to organize valid countermeasures to the inevitable tendencies towards hyperspecialization that the explosive increase in scientific progress brings with it. Furthermore, the European Journal of Translational Myology and Mobility Medicine (Ejtm3) will accept typescripts on results presented at the 2025Pdm3, together with the Special Section: New Trends in Musculoskeletal Imaging of the MDPI (Basel) Journal *Diagnostics*, because diagnosis is essential to prevent, manage and follow-up not only neuro-metabolic-muscular disorders, but the unavoidable physiological decay of performances in early and late aging. Hoping many others share our dreams, we look forward to meeting you at 2025Pdm3 conference.

**Key Words:** Padua Days on Muscle and Mobility Medicine, 2025Pdm3; European Journal of Translational Myology, Ejtm3; PAGEpress; Italy.

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The Padova Muscle Days (PMDs), an international meeting on skeletal muscle, began in 1985 as the First Abano Terme Meeting on Rehabilitation (Padua, Italy), to provide advice on Translational Myology. The interest has always been to influence clinical trials with the results of basic research. Indeed, function and mass of striated skeletal muscle influence and are influenced by central and peripheral neural disorders, diseases of the heart, lung, liver, metabolism, endocrine tissues, together with lifestyle and aging, not to mention cancer. Thus, over the course of thirty-five years, the Padova Muscle Days have offered those opportunities, which have matured into innovative and multidisciplinary results to the point that it came naturally to underline it with a neologism now included in the title of this series of conferences, namely "Mobility Medicine." Mobility Medicine is not yet officially recognized as an academic discipline, but the new nickname makes explicit the much-needed call to reunite knowledge currently dispersed in sub-subspecialties and finally tackle muscle weakness and improve performance. The following program of the five days of the Padua Days on Muscle and Mobility Medicine to be held 25-29 March 2025 (2025Pdm3) will be hosted at the Hotel Petrarca in Euganean Thermae, Padua, Italy. The program lists traditional and unique sessions testifying that it is possible to organize valid countermeasures to the inevitable tendencies towards hyperspecialization that the explosive increase in scientific progress brings with it. Furthermore, the European Journal of Translational Myology and Mobility Medicine (Figures 1 and 2) will accept typescripts of results presented at the 2025Pdm3, as Review, Original Articles and Ejtm3 Communications. Meantime a Special Section of the MDPI (Basel) Journal *Diagnostics* will accept submissions because diagnosis is a prerequisite of prevention, managements and follow-up not only of neuro-metabolic muscular disorders, but also of the physiologic unavoidable decay of the older adults, as well as the pathologic cachexia of cancer. The Program of the five-day

2025Pdm3 will include in-presence and on-line oral presentations of senior and early-stage scientists and clinicians from Argentina, Austria, Brazil, Bulgaria, Canada, Egypt, France, Germany, Iceland, Ireland, Italy, Russia, Slovenia, Sweden, Switzerland, UK and USA. The Collection of Abstracts will be e-published and released by PubMed before the 2025Pdm3 in the Issue 35 (1) 2025 of the European Journal of Translational Myology (Ejtm3). As the sole example, we stress that the challenges associated with physical inactivity in the elderly, often attributed to factors such as age and concurrent medical conditions, have far-reaching implications for their well-being and independence. The lack of physical activity not only curtails their autonomy, but increases the risk of extended hospitalization, leading to issues such as neuromuscular weakening, functional limitations, and substantial healthcare expenses.<sup>1-4</sup> Managing the progressive physical inactivity-related impairments demands ongoing attention. It should be highlighted that physical exercise, even if performed in bed (home Full-Body In-Bed Gym) represents a highly promising and multifaceted option. This approach can contribute to global health promotion by enhancing cardiovascular fitness, muscle strength, flexibility, and mental well-being, making it a preventive, low-risk, time-saving and cost-effective strategy that can be tailored to individual needs and preferences. Beyond physical benefits, exercise positively impacts mental health and can serve as a complement (that perhaps a boost) to pharmaceutical interventions.<sup>5</sup> However, community-based exercise initiatives can face various challenges, including financial constraints, difficulties in accessibility, time limitations, and a shortage of specialized guidance.<sup>6,7</sup> Hence, adoption of home-based physical exercise routines, presents a viable and cost-efficient alternative.

In conclusion, the 2025Pdm3 will be interesting and successful as all previous "Padova Days on Muscle and Mobility Medicine."<sup>8-15</sup>

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432



Fig 1. The European Journal of Translational Myology. PAGEpress, via A. Cavagna Sangiuliani 5, 27100 Pavia, Italy

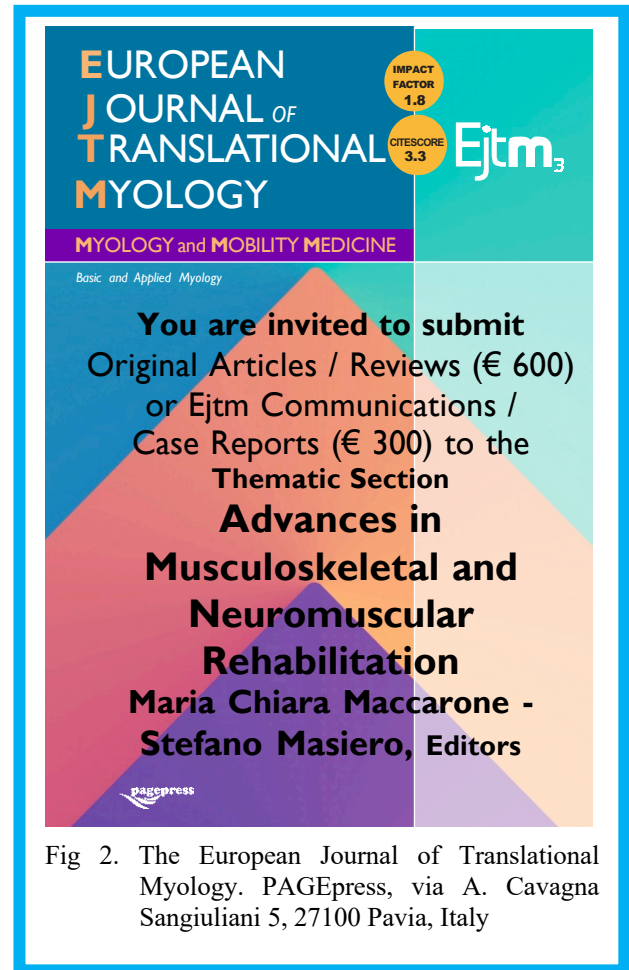


Fig 2. The European Journal of Translational Myology. PAGEpress, via A. Cavagna Sangiuliani 5, 27100 Pavia, Italy

**List of acronyms**

- Ejtm3 - European Journal of Translational Myology
- Pdm3 - Padua Days on Muscle and Mobility Medicine
- PMD – Padua Muscle Days

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**Conflict of Interest**

The authors disclose no conflicts of research interest.

**Ethical Publication Statement**

We confirm that we have read the Journal’s position on issues involved in ethical publication and affirm that this report is consistent with those guidelines.

## 2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

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### 2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

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2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432



**2025(Pdm3) Padua Days on Muscle and Mobility Medicine**  
**March 25 to March 29, 2025 - Euganean Thermae, Padua (Italy)**  
**Hotel Petrarca, Piazza Roma 23, Montegrotto Terme, (Padua), 35122 Italy**



**Organizers:** Stephen Anton, Elena Barbieri, Bert Blaauw, Ines Bersch, Ugo Carraro, Dario Coletti, Paolo Gargiulo, Elena P. Ivanova, Christiaan Leeuwenburgh, Maria Chiara Maccarone, Stefano Masiero, Marco V. Narici, Antonio Paoli, Philippe Perrin, Marco Quadrelli, Riccardo Rosati, Piera Smeriglio, H. Lee Sweeney, Gerd Fabian Volk, Sandra Zampieri

**REGISTRATION FEES: € 300 - One-Day REGISTRATION FEES: € 150 - On-Line REGISTRATION FEES: € 100 - Young Attendees: Exempt**

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**TUESDAY March 25, 2025**

**Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy**

- 09:00 am** Opening: Antonio Paoli, Greetings from the Padova University
- 09:10 am** Lecture of Stanley Salmons, University of Liverpool UK: Paradigm shift - Tales of the unexpected
- 09:50 am** **Session I: FES for atrophying and reinnervating muscles Ines Bersch, Gerd Volk, Chairs**
- 09:50 am** Electrical stimulation technology, a versatile and effective tool for support of restoring and maintaining neuromuscular integrity (20min), Winfried Mayr, Vienna Austria
- 10:10 am** Ultra Sound evidence of deceleration of denervated facial muscles atrophy through functional electrical stimulation (20min): Gerd Fabian Volk, et al., Jena, Germany
- 10:30 am** The effects of pedaling exercise with superimposed adaptive functional electrical stimulation (AFESK) on the physiological and perceptual responses to exercise and performance in healthy humans: a training study (20min), Andrea Bosio et al., MAPEI Mapei Sport Research Centre, Olgiate Olona, VA, Italy
- 10:50 am** Open Coffee

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

## TUESDAY March 25, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

- 10:50 am **Session II: FES for permanent denervated muscles, Ashraf Gorgey, Hemut Kern, Chairs**
- 10:50 am **Tissue Composition Changes in Long-Term Denervated Muscles - Beneficial Effects of Long-Pulse Electrical Stimulation (20min): Ines Bersch-Porada et al., Notwill FES Center, Switzerland**
- 11:10 am **To Be Announced (20min): Ashraf Gorgey, USA**
- 11:30 am **Twenty years of functional electrical stimulation (FES) for denervated and degenerated human muscles (DDM): ultrasound evidence of muscle contraction after long-term discontinuation of FES x DDM, (10min): Daniele Coraci et al., Rehabilitation Unit of the Department of Neuroscience, University Padua General Hospital, Italy**
- 11:40 am **To Be Announced (10min): Giovanni Pegoraro, Bergamo, Italy**

## TUESDAY March 25, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

- 11.50 am **Session III: MED-EL Workshop on Electromedicals**
- 11.50 am **Introductory words to the MED-EL Workshop on new Electrical Stimulation Solutions, (10min) MED-EL Speakers to be announced**
- 12.00 am **FES in Tetraplegia (20min) Ines Bersch, Notwill FES Center, Switzerland**
- 12:20 am **Selective surface stimulation therapy for facial nerve paralysis (20min) Gerd Fabian Volk, Department of Otorhinolaryngology, Jena University Hospital, Jena, Germany**
- 12:40 am **To Be Announced, (20min) Leonardo Boccuni, Scientific Institute, IRCCS E. Medea, Conegliano, Italy**
- 01:00 pm **MED-EL Working-Lunch in the Conference Hall Paradise**

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

## TUESDAY March 25, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

- 02:30 pm** *Session IV: Exercise and fasting in prevention and managements of mobility and metabolic disorders, Stephen Anton, Maria Chiara Maccarone, Chairs*
- 02:30 pm** Disentangling the Effects of Time Restricted Eating, Calorie Restriction and Exercise on Metabolic Health (30min), Stephen Anton, College of Medicine, University of Florida, Gainesville, FL USA
- 03:00 pm** Fasting, exercise and skeletal muscle (30min), Antonio Paoli, Department of Biomedical Sciences, University of Padova, Italy
- 03:30 pm** Full-Body In-Bed Gym advancements for elderly subjects (30min), Maria Chiara Maccarone et al., Department of Neuroscience, Rehabilitation Unit, Padua University, Italy
- 04:00 pm** Open Coffee
- 04:15 pm** *Session V: Maintaining compliance in rehabilitation, Richard L. Lieber, Ugo Carraro, Chairs*
- 04:15 pm** Specific Tension of Human Muscle - Direct and Indirect Approaches (30min), Richard L. Lieber, Northwestern University, Chicago, IL, USA
- 04:45 pm** Muscle-muscle cross-talk during unilateral electrical/mechanical stimulation (30min), Lars Larson, Center for Molecular Medicine, Karolinska Institute, Stockholm, Sweden
- 05:15** Mechanisms of action of hyperbaric oxygen therapy (30min), Gerardo Bosco, University of Padua, Italy
- 05:45 pm** Hyperoxia after exercise-to-exhaustion in the mitigation of age-related muscle decay (15min), Ugo Carraro, University of Padua, Italy
- 06:00 pm** Lecture of Jan Fridén, University of Gothenburg, Gothenburg, Sweden: Restoring upper extremity motor function in tetraplegia using muscle and nerve transfers
- 06:40 pm** A glass of Prosecco before dinner in the Conference Hall Paradise
- 07:30 pm** Dinner

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

**WEDNESDAY March 26, 2025** Villa Pollini, Luvigliano, Euganean Hills (Padua) Italy

**08:30 AM Complimentary Bus from Hotel Petrarca to Villa Pollini, Luvigliano di Torreglia (Padua) Italy**

**09:00 am** *Session VI: Pathogenesis, regeneration and therapy in sarcomeric muscle diseases, H Lee Sweeney, Daniela Tavian, Chairs*

**09:00 am** Lecture of H. Lee Sweeney, University of Florida, Gainesville, FL, USA, New insights leading to improved designs of micro-dystrophins for use in AAV vectors.

**09:40 am** Proteomic profiling of the dystrophin complexome in skeletal muscle(20min), Kay Ohlendieck, Maynooth University, National University of Ireland

**10:00 am** Lipotoxicity and lipophagy in NLSDM: mechanisms and treatments (20min) Sara Missaglia, Daniela Tavian, Catholic University of the Sacred Heart, Milan, Italy

**10:20 am** Pharmacological Treatment through HiPSC-based Drug Repurposing for ultrarare congenital myopathies (20min), Edoardo Malfatti, Paris Est University, Creteil, France

**10:40 am** Remodeling of neuromuscular junction in dystrophic sarcomeric muscles, (20min) Gabriele Siciliano, University of Pisa, Italy

**11:00 am** Open Coffee

**11:00 am** Multifactorial Systemic factors affecting spinal muscular atrophy patients' health (20min), Piera Smeriglio, Sorbonne Université, INSERM, Myology Institute, Paris, France

**11:20 am** Reversion of RNA toxicity and muscle dysfunction in Myotonic Dystrophy (20min), Denis Furling, Sorbonne Université, INSERM, Myology Institute, Paris, France

**11:40 am** Effects of age and sex in human muscle secretome (20min), Barbara Crisol, et al., Sorbonne Université, INSERM, Myology Institute, Paris, France

**12:00 am** Transcriptomic characterization of Type II SMA muscle to understand the variability in phenotypes and treatment response (20min), Fiorella Grandi, Sorbonne Université, INSERM, Myology Institute, Paris, France

**12:20 am** Cell specific loss of MBNL: implication for Myotonic Dystrophy skeletal muscle homeostasis (20min), Frédérique Rau, Sorbonne Université, INSERM, Myology Institute, Paris, France

**12:40.pm** Standing Working Lunch

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

**WEDNESDAY March 26, 2025 Villa Pollini, Luvigliano, Euganean Hills (Padua) Italy**

**02:00 pm *Session VII: Skeletal muscle adaptations to exercise and disuse, David Hood, Anna Picca, Christiaan Leeuwenburgh, Chairs***

**02:00 pm Introductory words (5min by Zoom) Christiaan Leeuwenburgh, Florida University, USA**

**02:05 pm Role of the lysosome in maintaining muscle health across the lifespan (25min), David Hood, Toronto, Canada**

**02:30 pm The role of AMPK in the neuromuscular system (25min), Vladimir Ljubicic (Hamilton, Canada)**

**02:55 pm The importance of Ca<sup>2+</sup> signalling in skeletal muscle adaptations to exercise (25min), Nicolas Place (Lausanne, Switzerland)**

**03:20 pm Molecular mechanisms of muscle adaptations: role of PGC-1α (25min), Christoph Handschin (Basel, Switzerland)**

**03:45 pm Mitochondria-derived vesicles in physical frailty and sarcopenia, (25min), Anna Picca, Department of Medicine and Surgery, LUM University, Italy**

**04:10 pm Open Coffee**

**04:20 pm *Session VIII: Managements of cancer cachexia, Sandra Zampieri, Dario Coletti, Chairs***

**04:20 pm Effects of exercise and chemotherapy in cancer cachexia (20min), James Carson, Memphis, McMaster University, Tennessee, USA**

**04:40 pm Silencing tumor-muscle crosstalk (25min), Marilia Seelander, University of Sao Paulo, Brazil**

**05:00 pm To Be Announced (20min), Andrew Judge, Gainesville University, FL, USA**

**05:20 pm TO BE ANNOUNCED (25min), Guglielmo Sorci, University of Perugia, Italy**

**05:40 pm Alterations in the gait of tumor bearing mice suggest alterations in the nervous system underlying cachexia (25min), Dario Coletti, Sapienza University, Rome, Italy**

**06:00 pm Impact of sarcopenic myosteatosi on patients with esophagogastric cancer (25min), Elisa Sefora Pierobon, DiSCOG, University of Padua, Italy**

**06:20 pm Lecture of Massimo Ganassi, Involvement of Satellite cells in the pathogenesis of Neuromuscular disorders, (40 min), Randall Centre for Cell and Molecular Biophysics, King's College London, London, UK**

**07:00 pm Conclusive Remarks (20 min), Gillian Butler-Browne, Sorbonne Université, INSERM, Myology Institute, Paris, France**

**07:30 pm Complimentary Bus from Villa Pollini, Luvigliano to Hotel Petrarca, Montegrotto Terme**

**08:00 pm Dinner**

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

## THURSDAY March 27, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 am **Session IX: Neuromuscular plasticity to disuse and ageing, Elena Monti, Marco Narici, Chairs**

09:00 am Morphological and Functional Instability of the NMJ with Chronic Inactivity in Humans (25min), Marco Narici, Department of Biomedical Sciences, University of Padova, Italy

09:25 am Skeletal Muscle Metabolic Adaptations to two weeks of Step Reduction and Active Recovery in Humans (25min), Roberto Bottinelli, Pavia University, Italy

09.50 am Human Motor Unit Remodelling with Chronic Inactivity (20+5min slides+discus), Giuseppe De Vito, Department of Biomedical Sciences, University of Padova, Italy

10:15 am Oxidative Metabolism and Mitochondrial Function: Adaptations to Disuse in Humans (25min), Bruno Grassi, University of Udine, Italy

10:40 am Coffee break

11.00am Circulating Factors Associated with Extremes of Physical Function in Octogenarians (25min), Russell Hepple, Physical Therapy and Muscle Biology, University of Florida, USA

11.25 am Muscle Gene Expression and Physiological Adaptations to Overloading Following Disuse in Humans (25min), Martino Franchi, Department of Biomedical Sciences, Padova University, Italy

11:50 am A transcriptomic and spatial proteomic atlas of human aging and sarcopenia (25min), Elena Monti, Department of Microbiology and Immunology, Stanford University (CA), USA

12:15 am Muscle Mass Preservation in Hibernating Bears (25min), Bert Blaauw, Department of Biomedical Sciences, University of Padova, Italy

12:45.am Lunch

02:00 pm **Session X<sub>a</sub>: Exercise and exer kines, Bert Blaauw, Daniela Tavian, Chairs**

02:00 pm Adaptations of the Extracellular Matrix to Overloading in Children with Cerebral Palsy (20+5min), Richard Lieber, Northwestern University, Chicago, IL, USA

02:25 pm Modulation of Metabolism in Resting Skeletal Muscle (25min), Leonardo Nogara, Department of Biomedical Sciences, University of Padova, Italy

02:50 pm Over-Expression of the ERG1A Potassium Channel in C2C12 Myotubes Modulates Sodium Current Amplitude, but not Nav1.4 Gene Expression (25min), Amber L. Pond, Anatomy, Southern Illinois University School of Medicine, Carbondale, IL., USA

03.15 pm Nerve Activity Inhibits mTORC1-dependent Protein Synthesis in Skeletal Muscle (25min), Bert Blaaw, et al. Department of Biomedical Sciences, University of Padova, Italy

03:40 pm Extracellular matrix alteration and force transmission in older humans: A finite element analysis (20+5min), Lorenzo Marcucci, Department of Biomedical Sciences, University of Padova, Italy

04:05 pm Coffee break

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

## THURSDAY March 27, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

04:20 pm *Session X\_b: Exercise and exer kines, Daniela Tavian, Bert Blaauw, Chairs*

04:20 pm Plasma and Salivary Irisin Response to Resistance Training: A Comparative Study, (20min) Luigi Marano et al., University Cattolica-Milan, Italy

04:40 pm Effects of superimposed electromyostimulation during cycling on serum irisin levels (20min), Ester Tommasini et al., Università Cattolica, Milan, Italy

05:00 pm Association of high molecular weight Adiponectin oligomers with exercise metrics post acute exercise (20min), Aurora Daniele et al., Naples University, Italy

05:20 pm The effects of pedaling exercise with superimposed adaptive functional electrical stimulation (AFESK) on the physiological and perceptual responses to exercise and performance in healthy humans: a training study (20min), Andrea Bosio et al., MAPEI Sport, Olgiate Olona, Varese, Italy

05:40 pm Improved Irisin and Mental Well-being in Breast Cancer Survivors Following 8 Weeks of Aerobic Exercise, (20min), Denise Vagnini et al., Università Cattolica-Milan, Italy

06:00 pm To Be Announced, (20min)

06:20 pm To Be Announced, (20min)

06:40 pm Conclusive Remarks (20 min), Giorgio Fanò-Illic, IIM, Libera Università di Alcatraz, Italy

07:30 pm Dinner

## FRIDAY March 28, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 am *Session XI Hyaluronans, glycosylated proteins and fibrosis in mobility disorders, Elena Barbieri, Giovanni Abatangelo, Chairs*

09:00 am Hyaluronans and Glycosylated Proteins in Mobility Medicine Elena Barbieri (30min), University of Urbino, Italy

09:30 am To Be Announced (30min), Carla Stecco, Human Anatomy Section, DNS, Padua University, Italy

10:00 am Intra-articular injections with Carboxymethyl-Chitosan in patients affected by knee osteoarthritis nonresponders to hyaluronic acid: a pilot study (30min), Nicola Manocchio et al., Physical and Rehabilitation Medicine, Clinical Sciences and Translational Medicine Department, University of Rome Tor Vergata, Italy

10:30 am Hyaluronic acid-extracellular vesicles interactions in osteoarthritis Piero Sestili (30min), University of Urbino, Italy

11:00 am Coffee break

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

## FRIDAY March 28, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

- 11.15 am **SESSION XII: Digital health and muscle imaging for mobility medicine**  
*Paolo Gargiulo, Daniele Coraci, Chairs*
- 10.45 am 3D and virtual reality techniques for planning, training and education of complex anatomical disorders, (30min), Paolo Gargiulo,
- 11.15 am Cohort studies using 3D-CT are needed to assess whether "home Gym-Bed" exercises are beneficial against sarcopenia, (30min), Daniele Coraci,
- 11:45 am Quantitative 3D-CT imaging of sarcopenia mitigation in the elderly, (30min), Marco Quadrelli, et al., Synlab Euganea Medica Padova & Neaple, Italy
- 11:45 am Innovative approaches in Adolescent Idiopathic Scoliosis: from neurophysiology to Artificial Intelligence, Maria Chiara Maccarone et al., (30min), Department of Neuroscience, Rehabilitation Unit, Padua University, Italy
- 12:45 pm Lunch
- 02:00 pm **SESSION XIII: Hydrotherapies in mobility disorders, Philippe Perrin, Stefano Masiero, Chairs**
- 02:00 pm Meteorological, chronobiological and thermal factors impacting postural control in knee osteoarthritis (40min), Philippe Perrin, et al., University of Lorraine, Nancy, France
- 02:40 pm Hydrothermal approaches for Eustachian tube and tympanic muscle disorders, (30min) Alessandro Martini, University of Padua, Italy.
- 03:10 pm "AQTOX Study": a single blind controlled pilot study on aquatic therapy after spasticity treatment with botulinum toxin injection (20min), Andrea Marcante, UOC Functional Recovery and Rehabilitation Unit, ULSS8 Berica, Lonigo (Vicenza), Italy
- 03:50 pm New Instruments of Quality for the Management of TCI Medicine Centers (20min), Giovanni Gurnari, Benaquam s.r.l. Rep. San Marino, Italy
- 04:10 pm To Be Announced (20min), Paulo Gentil, Faculdade de Educação Física e Dança, Universidade Federal de Goiás, Goiania, Brazil
- 04:30 pm Method of pelvic symmetry recovery in musculoskeletal disorders (20min ), Kirill V. Terentev, et al., National Medical and Surgical Center named after N.I. Pirogov, Moscow, Russia
- 04:50 pm Open Coffee

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

**FRIDAY March 28, 2025**

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

- 05:00 pm**    ***SESSION XIV: Rehabilitation approaches in mobility disorders, Ugo Carraro, Stefano Masiero, Chairs***
- 05:00 pm**    **Rehabilitation approach to recover post-stroke diaphragm dysfunction (20 min), Elena Yu. Starkova, et al., Moscow, Russia**
- 05:20 pm**    **Repetitive Peripheral Magnetic Stimulation to recover balance function in hemiparetic patients (20 min), Tatyana Chernyavskaya, et al. Moscow, Russia**
- 05:40 pm**    **Taopatch nanotechnology integrated into hearing aids, improves the parameters of the balance in hearing-impaired subjects (20 min), Andrea Fabris, Giuseppe Messina, et al., Department of Human Sciences and Promotion of the Quality of Life, San Raffaele University, Rome, Italy; and PLab Research Institute, Palermo, Italy**
- 06:00 pm**    **Case study: Integrated posturalspine and brace two-years treatment of pre-menarche scoliosis (20 min), Alfredo D'Amanti, Giuseppe Messina, et al., Department of Human Sciences and Promotion of the Quality of Life, San Raffaele University, Rome, Italy; and PLab Research Institute, Palermo, Italy**
- 06.20 pm**    **Nanotechnology and athletic performance: Taopatch and athletic excellence (20 min), Andrea Pagliaro, Patrizia Proia, Giuseppe Messina, et al., Department of Human Sciences and Promotion of the Quality of Life, San Raffaele University, Rome, Italy; and PLab Research Institute, Palermo, Italy**
- 06.40 pm**    **Conclusive Remarks, Stefano Masiero, University of Padova, Italy**
- 07:30 pm**    **Dinner**

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

**FRIDAY MARCH 28, 2025**

**Conference Hall Grazia, Hotel Petrarca, Euganean Thermae (Padua) Italy**

**09:00 am** ***SESSION XV: Masterclass on Muscle Rehabilitation in Dentistry***  
*Claudia Dellavia, Elena P. Ivanova, Chairs*

**09:00 am** Welcome and thanks, Riccardo Rosati, Milan, Italy

**09:20 am** Innovative methods for the diagnosis and treatment of craniomandibular disorders, Elena P. Ivanova, Moscow, Russia; Frank Saxler, Cologne, Germany

**09:40 am** Bruxism and oral mucosa: new relationships to investigate? Mariana Dimova-Gabrovski, University of Sofia, Bulgaria

**10:00 am** New perspectives in the myofascial pain treatment. Francesca Lenci, University of Naples Federico II, Naples, Italy

**10:20 am** Morpho-functional safety of the stomatognathic system during sports performance: indications of the Italian Society of Sports Dentistry. Alessandro Beraldi, Milan, Italy

**10:40 am** The masticatory muscles sEMG reliability in TMD patients; preliminary results. Paola Tessera, University of Pavia, Italy

**11:00 am** Coffee break

**11:20 am** US Imaging of masseter-parotid district. Dolaji Heinin, University of Milan, Italy

**11:40 am** sEMG in patients with parotitis induced by masseter muscle hypertrophy, Massimiliano Vella. University of Milan, Italy

**12:00 am** Lectio magistralis: Differential diagnosis of salivary gland and surrounding muscle disorders: a handbook for dentists, Pasquale Capaccio, University of Milan, Italy

**12:50 am** Discussion

**01:00 pm** Working Lunch

**02:30 pm** ***SESSION XVI: Masterclass on Muscle Rehabilitation in Dentistry*** Roberto Rongo, Riccardo Rosati, Chairs

**02:30 pm** Functional Anatomy Research Center (FARC) history and results. Claudia Dellavia, University of Milan, Italy

**03:00 pm** Maintenance and restoration of masticatory muscle function in everyday dentistry, Piero Simeone, Rome, Italy

**05:00** Functional and non-functional parafunctions: what role in TMDs? Rosaria Bucci and Roberto Rongo, University of Naples Federico II, Naples, Italy.

**06:00 pm** Performing a reliable electromyographic examination of the masticatory muscles: technical and clinical tips. Riccardo Rosati, University of Milan, Milan, Italy

**06:30 pm** Conclusive Remarks and Greetings, Riccardo Rosati, Milan, Italy

**07:30 pm** Dinner

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

## SATURDAY MARCH 29, 2025

Conference Hall Grazia, Hotel Petrarca, Euganean Thermae (Padua) Italy

09:00 am **SESSION XVIII: Ludwig Boltzmann Institute Workshop on Rehabilitation,**  
**Vincent Grote, Helmut Kern, Chairs**

09:00 am The impact of exercise and nutrition therapy on measures for sarcopenia in patients with rheumatoid arthritis: A systematic review, (20min) Barbara Strasser et al., Ludwig Boltzmann Institute for Rehabilitation Research, Vienna, Austria

09:20 am Performance score T2D – a new way to look at rehabilitation outcomes of post COVID patients. Vincent Grote, et al, (20min), Ludwig Boltzmann Institute for Rehabilitation Research, Vienna, Austria

09:40 am Which factors influence the success of rehabilitation? - A mixed-methods study on patients and healthcare professionals, (20min) Vincent Grote et al., Ludwig Boltzmann Institute for Rehabilitation Research, Vienna, Austria

10:00 am Effectiveness of a digital intervention to promote physical activity after oncological rehabilitation in breast cancer patients: a protocol for a randomized controlled trial, (20min) Spela Matko et al., Ludwig Boltzmann Institute for Rehabilitation Research, Vienna, Austria

10:40 am Coffee break

10:45 am **SESSION XIX-ZOOM SESSION: Therapies in mobility disorders, Igor Reverchuk, Ugo Carraro, Chairs**

10:45 am Prognosis of movement disorders in the early recovery period of ischemic stroke on the background of anticoagulant therapy (15 min by ZOOM) Georgy Avakyan, Minh Duc Tranas, Albina N. Yasamanova, Neurology, Neurosurgery and Medical Genetics, Faculty of General Medicine, Pirogov Russian National Research Medical University, Moscow, Russia

11:00 am The effectiveness and safety of using therapeutic mud and mineral water from the Kaliningrad region of the Baltic region in neurorehabilitation (15min by ZOOM), Igor Reverchuk, BioInstitute for Somatomental Health, Samarkand State Medical University of the Republic of Uzbekistan.

11:15 am Psychoneurophysiological and neurophenomenological mechanisms of sanogenesis of the new science of "kinetics" in neurorehabilitation of borderline mental and movement disorders (15min by ZOOM), Igor Reverchuk, BioInstitute for Somatomental Health, Samarkand State Medical University of the Republic of Uzbekistan

11:30 am The Effect of Calcium and Vitamin D3 on Calcium Homeostasis and Falls Incidence in Patients with Osteoporosis Undergoing Medical Rehabilitation (10+5min by ZOOM), Larisa Marchenkova, Anatoliy Fesyun, National Medical Research Center for Rehabilitation and Balneology, Moscow, Russia

11:45 am Effectiveness of the Pelvic Floor Muscles Electrotherapy and Magnetic Stimulation in Preconception Programs for Women of Reproductive Age, Natalia Kotenko, Anatoliy Fesyun (15min+ by ZOOM), National Medical Research Center for Rehabilitation and Balneology, Moscow, Russia

12:00 am Effectiveness of a Rehabilitation Programme for Patients with Post-Thrombotic Syndrome including Robotic Biofeedback Training of the Calf Muscle Venous Pump (15min by ZOOM), Tatyana Apkhanova, Tatiana Konchugova, Detelina Kulchitskaya, Anatoliy Fesyun, National Medical Research Center for Rehabilitation and Balneology, Moscow, Russia

## 2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

12:30 pm

Lunch

2025Pdm3 A call for Mobility Medicine

Eur J Transl Myol 34 (4) 13432. doi: 10.4081/ejtm.2024.13432

## SATURDAY MARCH 29, 2025

Conference Hall Paradise, Hotel Petrarca, Euganean Thermae (Padua) Italy

- 09:00 pm **SESSION XVII: Masterclass on musculoskeletal diagnostics of the shoulder and knee using cutting-edge imaging techniques, Paolo Gargiulo, Marco Quadrelli, Chairs**
- 09:00 am **Lecture of Paolo Gargiulo, University of Reykyavik, Iceland: Digital health and muscle imaging for mobility medicine**
- 09:40 am **Innovative Approaches to Shoulder MSK Disorders: From Symptomatology to Advanced Imaging and Diagnosis, Marco Quadrelli, SynLab, Euganea Medica Padua, Italy**
- 10:20 am **Mastering Shoulder Diagnostics: An Interdisciplinary Journey from Clinical Assessment to Advanced Imaging, Aldo Morra, SynLab, Euganea Medica, Padua & SynLab, Naples, Italy**
- 11:00 am Open Coffee
- 11:00 am **Comprehensive MSK Imaging: Integrating Clinical Radiological, and Post-Processing Expertise in Shoulder Diagnostics, Simone Perandini, Radi.cloud, Verona, Italy**
- 11:40 am **Lecture of Ugo Carraro, University of Padova, Italy: How to rejuvenate at 80's**
- 12:30.am Working Lunch
- 02:00 pm **Lecture of Helmut Kern, LBI Rehabilitation Research, Vienna, Austria: Prehabilitation and best practices from acute therapy and early outpatient underwater therapy after knee replacement**
- 02:40 pm **Beyond the Symptoms: A Multifaceted Approach to Knee Imaging - From Clinical Evaluation to Advanced Post-Processing, To Be Announced**
- 03:20 pm **Innovative Perspectives in Knee Diagnostics: Bridging Clinical Symptoms and Cutting-Edge Imaging Techniques, To Be Announced**
- 04:00 pm Open Coffee
- 04:00 pm **The Synergy of Expertise: Exploring Advanced Knee Diagnostics Through Clinical, Radiological and Technological Lenses, To Be Announced**
- 04:40 pm **General Discussion**
- 06:00 pm **Conclusive Remarks, Aldo Morra, SynLab, Euganea Medica, Padua & SynLab, Naple, Italy**
- 06:40 pm Ugo Carraro: Goodbye to the 2026Pdm3, Euganean Thermae (Padua), Italy**
- 07:30 pm Dinner

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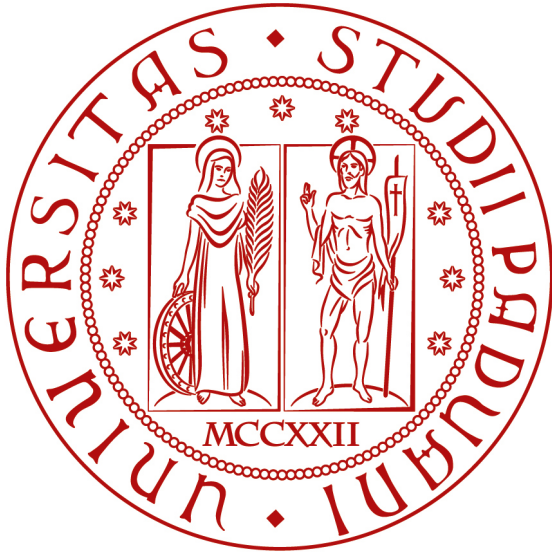
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