

SCIENTIFIC SESSIONS
PLENARY SESSION
ORAL PRESENTATIONS
POSTER PRESENTATIONS
PUBLIC SESSION
MEETING
SCHOOLS
UEMS-PRM Section & Board Session
WORKSHOP
JOINT SESSION
LAB SESSION
BREAK, EXHIBITION AND E-POSTER VIEWING
OPENING/CLOSING CEREMONY

Pacific

8:30-9:30 PLENARY SESSION

Mauro Zampolini (Italy): *Quality management in rehabilitation: the perspective of UEMS-PRM*
Gerold Stucki (Switzerland): *Europe's role in advancing ClinFIT - ISPRM's universal Clinical Functioning Information Tool*

9:30-10:30 SCIENTIFIC SESSIONS

Current trends in rehabilitation

Chairpersons: **Isabelle Laffont (France), David Burke (USA)**

Isabelle Laffont (France): *Spasticity and neuro-orthopedic deformities in severely injured patients*
David Burke (USA): *Effect of Body Mass Index the Health Outcomes of our Patients: a Paradox*
Gerold Ebenbichler (Austria): *Targeting age-related changes in back muscle function: Is there a role in preventing early functional decline and frailty in the elderly?*

10:30-11:00 Coffee Break

11:00-13:00 JOINT SESSION

Joint Session Serbian Academy of Science and Art
Novelties in treatment of diseases with movement disorders
Chairperson: **Vladimir Kostic (Serbia)**

13:00-14:30 Light Lunch

14:30 -16:30 SCIENTIFIC SESSION

ESPRM SISC Session in Implementing EBM in Everyday Practice
Rehabilitation interventions based on evidence
Chairpersons: **Tonko Vlak (Croatia), Francesca Gimigliano (Italy)**

Alessandro Giustini (Italy): *How to lead to evidence clinical treatments by new technology and robotics in Rehabilitation*
Klemen Grabljevec (Slovenia): *Botulinum toxin: beyond spasticity in neurorehabilitation*
Frane Grubišić (Croatia): *Biologic therapy and functional outcome in inflammatory rheumatic diseases*
Tonko Vlak (Croatia): *PRM insight into Regenerative Medicine*
Tamara Filipovic (Serbia): *Matrix metalloproteinase-9 in osteoporotic female patients: potential clinical utility?*

16:30-17:00 Coffee Break



Pacific

17:00-19:00 SCIENTIFIC SESSION

ESPRM SISC Session for PRM in Children

Part I

Chairpersons: **Ivana Petronic-Markovic** (Serbia), **Minna Stahl** (Finland)

Minna Stahl (Finland): *Rehabilitation of children with chronic pain*

Djurdjica Stevanovic-Papic, Samra Pjanic (RS, B&H): *Conservative treatment of scoliosis of different etiologies*

Ivana Petronic-Markovic (Serbia): *Physiatric challenges in diagnostics and treatment of children with syndromes*

Dejan Nikolic (Serbia): *The role of early rehabilitation in children with congenital heart defects*

OP : **Hanene Belabbassi** (Algeria): *Analysis of joint hyperlaxity in idiopathic scoliosis compared to congenital scoliosis*

OP : **Dahye Ryoo** (South Korea): *Isolated congenital vertebral anomalies in children with abnormal posture of head and neck*

Atlantic 1

8:30-10:30 SCIENTIFIC SESSION

Lymph Therapy

Chairpersons: **Aydan Oral** (Turkey), **Gulseren Akyuz** (Turkey)

Gulseren Akyuz (Turkey): *Lymphedema treatment strategies*

Aydan Oral (Turkey): *Manual lymphatic drainage may not have an additional effect on the intensive phase of breast cancer-related lymphoedema: a preliminary report*

OP : **Erzsebet Boros** (Hungary): *Comparison of the effect of lifestyle therapy on patients with lymphedema among in- and outpatient care*

OP : **Sandra Vázquez Gallego** (Spain): *Associated factors of axillary web syndrome in patients affected by breast cancer: a retrospective study*

OP : **Dragana Bojinović-Rodić** (B&H): *Secondary lymphedema of the external genitalia and lower limb after prostate cancer treatment: a case report*

OP : **Suzana Miletic** (Serbia): *Lymphatic drainage as a part of rehabilitation*

OP : **Martina Micheletti** (Italy): *Neurodynamic and manual therapy in post-mastectomy pain syndrome (PMPS)*

10:30-11:00 Coffee Break

Atlantic 1

11:00-13:00 SCIENTIFIC SESSION

ESPRM SISC Session for PRM in Children

Part III

Chairpersons: **Dragana Cirovic** (Serbia), **Vesna Zivkovic** (Serbia)

Polina Pavicevic (Serbia): *Imaging modalities of occult spinal dysraphism in infants and young children: how, when and why*

Dragana Cirovic (Serbia): *Significance of urodynamics in evaluation and follow-up of clinical symptoms in occult spinal dysraphism*

Vesna Zivkovic (Serbia): *Rehabilitation protocols for children with functional voiding disorders*

Iva Papic (RS, B&H): *MarteMeo method*

Vukasin Cobeljic (Serbia): *The importance of psychological approach in working with pediatric rehabilitation patients*

13:00-14:30 Light Lunch

14:30-16:30 SCIENTIFIC SESSION

Traumatic Brain Injury

Chairpersons: **Sara Laxe** (Spain), **Srbislav Stevanovic** (Serbia)

Una Nedeljkovic (Serbia): *Acute rehabilitation of patients with severe traumatic brain injury*

Volodymyr Golyk (Ukraine): *Effect of lower limb strength training program for improvement balance in patients after traumatic brain injury*

Srbislav Stevanovic (Serbia): *Motor recovery in TBI Children - Experience from clinical work*

Zoltan Denes (Hungary): *Rehabilitation of patient with severe brain injury in Hungary*

OP : **Vasileios Tragoulias** (Greece): *Traumatic brain injury related bone loss*

OP : **Jasna Vešligaj Damiš** (Slovenia): *Risk assessment in adapted physical activity for people with acquired brain injury in the Center Naprej*

16:30-17:00 Coffee Break

17:00-19:00 JOINT SESSION

Joint Session with EASO (European Association for the Study of Obesity)

Disabling Obesity – A joint perspective from ESPRM and EASO

Chairpersons: **Paolo Capodaglio** (ESPRM), **Luca Busetto** (EASO)

Dragan Micic (Serbia): *Latest development in the medical management of obesity - Contemporary aspects of obesity treatment*



Atlantic 1

Luca Busetto (Italy): *Obesity as a disease: how we can diagnose and stage it?*

Paolo Marzullo (Italy): *Sarcopenia and osteoporosis in obesity: pathophysiology and medical options*

Paolo Capodaglio (Italy): *Rehabilitation interventions in the patient with obesity*

Atlantic 3

8:30-10:30 SCIENTIFIC SESSION

ESPRM SISC Session in Cardiovascular Diseases

Part II

Chairpersons: **Catarina Aguiar Branco** (Portugal), **Marta Supervía** (Spain)

Catarina Aguiar Branco (Portugal): *Update trends to increase cardiac rehabilitation participation: A promotion goal for the next year*

Marta Supervía (Spain): *The frail patient: evaluation and outcomes*

Dejan Spiroski (Serbia): *Cardiac rehabilitation, how effective we really are*

Mojsije Andjic (Serbia): *Effects of short-term exercise training in patients following acute myocardial infarction treated with primary percutaneous coronary intervention*

OP : Yuriy Dovgalyuk (Russia): *Changes of the exercise tolerance in patients with myocardial infarction after outpatient cardiac rehabilitation*

OP : Satty Saaed (Sudan): *Clinical effectiveness of cardiac rehabilitation and diet therapy for patient with dilated cardiomyopathy heart failure: Case report*

OP : Olena Dolynna (Ukraine): *ICF-model in assessment of functioning, goals setting and choice of rehabilitation interventions in persons with arterial hypertension*

10:30-11:00 Coffee Break

11:00-13:00 SCIENTIFIC SESSION

Research in Rehabilitation

Part I

Chairpersons: **Nicolas Christodoulou**, **Jorge Lains**

Editors in Chief of four international PRM Journals presentations

Stefano Negrini (European Journal of Physical and Rehabilitation Medicine)

Walter Frontera (American Journal of Physical Medicine and Rehabilitation)

Henk Stam (Journal of Rehabilitation Medicine)

Dominic Perennou (Annals of Physical and Rehabilitation Medicine)

Atlantic 3

Presentation of the winners: TESC

Enrique Varela Donoso, Henk Stam

Presentation of the best contestants: MRT 180

Aydan Oral, Nicolas Christodoulou

European Academy Rehabilitation Medicine Prize

Henk Stam

13:00-14:30 Light Lunch

14:30-16:30 SCIENTIFIC SESSION

ESPRM SISC Session in Ageing persons

Chairpersons: **Michael Quittan** (Austria), **Xanthi Michail** (Greece)

Xanthi Michail (Greece): **Reducing the reoccurrence of fragility fractures in elderly patients**

Aydan Oral (Turkey): **Frailty**

Michael Quittan (Austria): **Rehabilitation of geriatric patients in Austria – the role of PRM**

OP : Dan Justo (Israel): **Low Alanine Aminotransferase (ALT) blood levels are associated with high 1-year mortality rates in older adults following rehabilitation for hip fracture**

OP : Ivan Selakovic (Serbia): **Can early assessment of hand grip strength in older hip fracture patients predict functional outcome?**

OP : Aleksandra Plavsic (Israel): **The Timed up and Go Test in geriatric orthopedic rehabilitation after hip fracture**

OP : Natasa Radosavljevic (Saudi Arabia): **The role of rehabilitation on bodily pain and emotional wellbeing in elderly after hip fracture**

16:30-17:00 Coffee Break

17:00-19:00 SCIENTIFIC SESSION

ESPRM SISC Session on Neurodegenerative Diseases

Setting evidence-based standards in Rehabilitation for People with Parkinson's Disease

Chairpersons: **Maria Gabriella Ceravolo** (Italy), **Ivona Stankovic** (Serbia)

Maria Gabriella Ceravolo (Italy): **Rehabilitation care models for people with Parkinson's disease across Europe**

Ivona Stankovic (Serbia): **Management strategies for improving postural stability and preventing falls in Parkinson's Disease-literature review**



Atlantic 3

Marianna Capecci (Italy): *The use of action observation to recover motor dexterity in people with Parkinson's disease*

OP : Daphne Bakalidou (Greece): *The impact of dance in Parkinson's disease*

OP : Ana Ribeiro (Portugal): *Behavioral treatment strategies for freezing of gate in Parkinson's disease – a qualitative review*

OP : Antonio Ammendolia (Italy): *Transcranial direct-current stimulation (tDCS) and rehabilitation in Parkinson's disease: a RCT*

Mediterranean/Adriatic

8:30-10:30 SCIENTIFIC SESSIONS

Language and Speech Disorders

Chairpersons: Galina Ivanova (Russia), Djurdjica Stevanovic-Papic (RS, B&H)

Amela Mujanić (RS, B&H): *The role and importance of speech and language therapist in the process of early intervention*

Galina Ivanova (Russia): *On use of interfaces a brain computer and exoskeletons in rehabilitation of children and adults with various limitations of functions (speech, movement, communication)*

OP : Drasko Prtina (SR, B&H): *Short- term effects of transcranial direct-current stimulation on the comprehension of aphasic patients with subacute stroke*

OP : Elena Berdnikovich (Russia): *Sensory stimulation as an effective method in speech rehabilitation after stroke*

OP : Maria Khlyustova (Russia): *Speech restoration in early rehabilitation in patients with cerebral apoplexy: Possibilities of using a NeuroChat communication complex to register visually evoked potential P300.*

OP : Linru Duan (China): *Study on the effects of speech therapy combined with psychological support for dysarthria after stroke*

OP . Goran Savić (Bosnia&Herzegovina, RS): *Understanding and recognition of prepositions in patients with speech and language pathology after a stroke*

10:30-11:00 Coffee Break

11:00-13:00 JOINT SESSION

Joint Session with ESCEO – IOF:

Closing the Treatment Gap in Osteoporosis

Chairpersons: Cyrus Cooper (UK), Maria Luisa Brandi (Italy)

Mediterranean/Adriatic

Radmila Matijevic (Serbia): *The treatment gap in osteoporosis: a medical and ethical concern*

René Rizzoli (Switzerland): *Nutritional approach of osteoporosis and fracture prevention*

John Kanis (UK): *The ESCEO algorithm for the management of patients at low, high and very high risk of osteoporotic fractures*

Maria Luisa Brandi (Italy): *New insights in the management of osteoporosis with bone forming agents: how to use them to close the osteoporosis treatment gap*

13:00-14:30 Light Lunch

14:30-16:30 JOINT SESSION

UEMS PRM Board Session

Part II

Teaching Research methodology in PRM

Chairpersons: **Maria Gabriella Ceravolo** (Italy), **Franco Franchignoni** (Italy)

Franco Franchignoni (Italy) and **Levent Ozcakar** (Turkey): *Writing a manuscript – Hints and tips for the researcher*

Maria Gabriella Ceravolo (Italy): *Research in PRM – lights and shadows*

Mauro Zampolini (Italy): *Enhancing the quality of PRM research: the reporting guidelines*

Ceremony for the assignment of the Board Awards for the Best oral or poster presentation (40 minutes in total): the three winners will present their contributions in 10 minutes each and, at the end, will receive the prizes

16:30-17:00 Coffee Break

17:00-19:00 SCIENTIFIC SESSIONS

ESPRM SISC Session for Pain and Disability

Part I

Neuropathic Pain

Chairpersons: **Roberto Casale** (Italy), **Gulseren Akyuz** (Turkey)

Roberto Casale (Italy): *Fibromyalgia*

Gulseren Akyuz (Turkey): *Restorative rehabilitation and electrical neuromodulation techniques in the treatment of neuropathic pain*

Erieta Nikolik Dimitrova (North Macedonia): *Rehabilitation for complex regional pain syndrome*

OP : Cevriye Mulkoglu (Turkey): *The relationship between low back disability and fibromyalgia severity in females with fibromyalgia*



Mediterranean/Adriatic

OP : Demet Ofluoglu (Turkey): *Neuropathic pain in patients with rotator cuff syndrome*

OP : Secil Pervane Vural (Turkey): *Effects of occlusal splint therapy and therapeutic exercises on neuropathic pain and oral health-related quality of life in temporomandibular disorders: a randomized prospective study*

OP : Oriana Amata (Italy): *The bio-psycho-social impact of adapted physical activity in patients with osteoarthritis*

Baltic/Aegean

8:30-10:30 SCIENTIFIC SESSION

Manual Medicine

Chairpersons: **Petar Dinic** (USA), **Enrique Varela Donoso** (Spain)

Petar Dinic (USA): *The importance of correction the first cervical vertebra (Atlas) in patients with headache or vertigo*

Enrique Varela Donoso (Spain): *Manual medicine in the temporomandibular disorders*

OP : **Ljiljana Krstic** (Serbia): *Symptomatic lumbar disc herniations: a comparison of outcomes depending on the MRI features of the hernia in patients treated with spinal manipulative therapy*

OP : **Giuseppe Cannata** (Italy): *An innovative technique of manual therapy in low back pain: a randomized controlled study*

OP : **Slobodan Pantelinac** (Serbia): *Mechanical lumbar spine traction in treatment of nonspecific acute and subacute low back pain*

OP : **Kludia Michsalčinova** (Czech Republic): *The Mojzisova method and visceral manipulation*

10:30-11:00 Break

11:00-13:00 LAB SESSIONS

Chairpersons: **Aydan Oral** (Turkey), **Franco Franchignoni** (Italy)

Ayse Kucukdeveci (Turkey): *Labs' session: research on complex regional pain syndrome in a hand rehabilitation unit*

Annika Sefastsson (Sweden), **Xiaolei Hu**, **Britt-Marie Ståhl**, **Ann Sörlin**, **Håkan Littbrand**, **Per Wester**: *Modified constraint-induced movement therapy in clinical practice -A large clinical cohort study. Institution of Social Medicine and Rehabilitation, Umeå, Sweden*

Carmen Terzic (USA): *Stem Cell Regenerative Medicine*

Oleksandr Vladymyrov, **Volodymyr Golyk** (Ukraine): *The Curriculum and Program of the course of specialization of PRM doctors in Ukraine*

Baltic/Aegean

Erieta Nikolikj Dimitrova, V. Koevska, B. Mitrevska, C. Gjerakareska Savevska, M. Gocevska, B. Kalchovska Ivanovska (North Macedonia): *Research activities in the field of physical and rehabilitation medicine in North Macedonia*

13:00-14:30 Light Lunch

14:30-16:30 SCIENTIFIC SESSION

Swallowing Disorders

Chairpersons: **Kristian Borg** (Sweden), **Branka Mladenovic** (Serbia)

Branka Mladenovic (Serbia): *Swallowing rehabilitation: principles and methods*

OP : **Sergio Pinho** (Portugal): *Repetitive Transcranial Magnetic Stimulation in treatment of dysphagia on Post-Stroke individuals – a literature review of the last 10 years*

OP : **Sofia Sivetidou** (Greece): *Early dysphagia as a prognostic factor of outcome 1 year after stroke*

OP : **Meryem Burcu** (Turkey): *Evaluation of swallowing by using FEES (fiber optic endoscopic evaluation of swallowing), in children with dysphagia, a retrospective chart review*

OP : **Martina Pigliapoco** (Italy): *Dysphagia in amyotrophic lateral sclerosis: early detection and correlation with respiratory parameters*

OP : **Young-Ah Choi** (Korea): *Trajectory of change in the swallowing status in spinal muscular atrophy type I*

OP : **Evelyne Mélotte** (Belgium): *Swallowing in patients with disorders of consciousness: a behavioral study*

OP : **Arina Uklonskaya** (Russia): *Optimization of methods of voice restoration after larynx removal at post-hospital stage*

16:30-17:00 Break

17:00-19:00 SCIENTIFIC SESSION

Nutrition and Diet

Chairpersons: **Dusan Djuric** (Serbia), **Larisa Marchenkova** (Russia)

Dusan Djuric (Serbia): *Nutrition for sarcopenia – beta-hydroxy-beta-methylbutyrate supplementation – a literature review*

Olivera Milovanovic (Serbia): *Vitamin D status as a useful tool for pathogenesis and therapy of frailty - true or false assertion from literature based evidence*

OP : **Babett Tóth** (Hungary): *The role of nutritional status in rehabilitation care*

OP : **Valeria Vasileva** (Russia): *The efficacy of complex kinesiotherapy in weight loss and improving of carbohydrate metabolism in obesity patients*



Baltic/Aegean

OP : Larisa Marchenkova (Russia): *The influence of complex supplementation with calcium, vitamins D3 & B6 can maintain effect of rehabilitation in patients with osteoporosis*

OP : Basak Mansiz Kaplan (Turkey): *Neuroprotective effect of Pitavastatin on motor deficit and functionality induced by sciatic nerve crush in the rat*

OP : Larisa Marchenkova (Russia): *The effect of complex dietary supplement on muscle strength and balance function in patients with osteoporosis*

Danube

8:30-10:30 ORAL PRESENTATION

Cancer Rehabilitation

Chairpersons: **Alvydas Juocevicius** (Lithuania), **Natasa Mujovic** (Serbia)

OP : Slavica Rajevic (Serbia): *Lesions of the accessory nerve in extirpation of the lymphatic gland of the neck*

OP : Bas Van De Weg (Netherlands): *Let's talk about sex – cancer patients and sexual well-being*

OP : Jekaterina Krasovska (Latvia): *Patients' needs identification after breast cancer*

OP : Ilaria Barboni (Italy): *Exercise group therapy enhances function and promotes activity/participation in breast cancer survivors with chronic upper quarter dysfunction at any age*

OP : Tetiana Odynets (Ukraine): *Effects of different exercise interventions on cardiopulmonary function in breast cancer patients: a randomized controlled trial*

OP : Sónia Tomé (Portugal): *Gastric adenocarcinoma revealed by paraneoplastic cerebellar degeneration*

OP : Nerea De la Puente (Spain): *Treatment of the non-palliative cancer patient: about a case*

OP : Sabina Saric (B&H): *Pain syndromes in oncology rehabilitation*

10:30-11:00 Coffee Break

11:00-13:00 ORAL PRESENTATIONS

Stroke - Advances in basic and clinical research

Chairpersons: **Martina Kóvári** (Czech Republic), **Emilija Dubljanin** (Serbia)

OP : Tereza Gueye (Czech Republic): *Use of visual biofeedback in subacute phase after stroke*

OP : Giulia Guardati (Italy): *Effects of upper limb robotic treatment on cognitive functions in subacute stroke patients*

OP : Eleftherios Stefas (Greece): *Adult onset idiopathic ambulatory focal lower extremity dystonia successfully treated with FES*

Danube

OP : Jakub Jeniček (Czech Republic): *Gait training in post-stroke patients: effect of peroneal nerve functional electrical stimulation*

OP : Jun Hyun Choi (Korea): *The efficacy of combination tDCS and TENS in stroke patients*

OP : Stoyan Bozhinov (Bulgaria): *Application of repetitive transcranial magnetic stimulation in the insular cortex for the treatment of patients with abuse*

OP : Sanaz Pournajaf (Italy): *Feasibility investigation of a novel exoskeleton-assisted gait rehabilitation in stroke patients: clinical and instrumental assessments*

OP : Natalie Sebkova (Czech Republic): *Day neurorehabilitation program with constraint induced movement therapy for lower limb*

OP : Francesco Infarinato (Italy): *Electroencephalographic markers toward the optimization of action observation treatment in stroke patients*

13:00-14:30 Light Lunch

14:30-16:30 ORAL PRESENTATIONS

Specific topics in Stroke Rehabilitation

Chairpersons: Piotr Tederko (Poland), Nela Ilic (Serbia)

OP : Kseniia Skliannaia (Russia): *Opportunities of Schuhfried complex in neuropsychological diagnostics and rehabilitation of patients with disability*

OP : Razvan Gabriel Dragoi (Romania): *Using a robot trainer may improve adherence of elderly patients with mild cognitive dysfunction on physical exercises*

OP : Dusica Simic-Panic (Serbia): *The impact of shoulder pain on functional outcome of hemiplegic stroke patients*

OP : Hatice Agir (Turkey): *Turkish adaptation, validity and reliability of the Subjective Index of Physical and Social Outcome (SIPSO)*

OP : Silvia Galeri (Italy): *Effects of upper limb robotic treatment on cognitive functions in subacute stroke patients*

OP : Marica GavriloVIC (Serbia): *Correlation of the risk factors and gait velocity in subacute stroke patients*

OP : Luis Carlos Sousa (Portugal): *Functional outcome following anoxic brain injury*

OP : Ana Margarida Monteiro (Portugal): *Dual-task: a response to 21st century demands – the development of an assessment and intervention protocol*

OP : Margarita-Eleni Manola (Greece): *Transanal irrigation system: a retrospective study*

OP : Christina Gerasimopoulou (Greece): *Anxiety and depression in caregivers of stroke patients facing communication, swallowing and functional difficulties*

16:30-17:00 Coffee Break



Danube

17:00-19:00 ORAL PRESENTATIONS

Musculoskeletal Diseases – Osteoarthritis

Chairpersons: **Fitnat Dincer** (Turkey), **Snezana Tomasevic Todorovic** (Serbia)

OP : Galina Mratskova (Bulgaria): ***Effectiveness of the low-frequency and low-intensity electrostatic field (deep oscillation) in the complex rehabilitation of the patients with knee osteoarthritis***

OP : Doina Boruga (Romania): ***Hip osteoarthritis elderly patients – complete assessment and rehabilitation***

OP : Elmina Mulić Hadžiavdić (B&H): ***Clinical effects of low power laser and interferent currents in pain treatment of osteoarthritis of the knee***

OP : Michela Goffredo (Italy): ***Virtual reality rehabilitation of balance after total knee replacement: clinical and biomechanical effects***

OP : Helena Kolar Mitrovic (Croatia): ***Comparison of the effectiveness of the IFC and tens electrotherapy on function and pain in osteoarthritis of the knee***

OP : Maja Manoleva (North Macedonia): ***Rehabilitation of calcific tendinopathy of the rotator cuff with radial extracorporeal shockwave therapy***

OP : Milica Basaric (Serbia): ***Neuropathic pain component in patients with knee osteoarthritis***

OP : Eugenio Di Stanislao (Italy): ***A.DYN.O.AN innovative orthosis for idiopathic toe walking treatment: efficacy evaluation***

OP : Denis Bolotov (Russia): ***Evaluation of THE effectiveness of hydro kinesitherapy in the restoration of stato-dynamic functions in patients with degenerative-dystrophic diseases of the joints of the lower limb***

OP : Bader Alqahtani (Saudi Arabia): ***Prevalence of frailty and associated risk factors among Saudi community-dwelling older adults***