Mediterranean

8:00 - 9:30 WORKSHOP 1

Coordinator: Gerold Stucki (Switzerland)

W1 - 1. Gerold Stucki (Switzerland)
W1 - 2. Melissa Selb (Switzerland)
W1 - 3. Aydan Oral (Turkey)
W1 - 4. Francesca Gimigliano (Italy)

9:30 - 11:30 WORKSHOP 2

W2. Current trends in evaluation and conservative treatment of children with idiopathic scoliosis and other spinal deformities
Coordinator: Stefano Negrini (Italy), Vesna Zivkovic (Serbia)

W2 - 1. Vesna Zivkovic (Serbia): Introduction
W2 - 2. Stefano Negrini (Italy): Guidelines for rehabilitation of patients with idiopathic scoliosis
W2 - 3. Vesna Zivkovic (Serbia): Evaluation of idiopathic scoliosis patients
W2 - 4. Nikola Jevtic (Serbia): The principles of ISST Schroth therapy according to Asklepios-Katharina Schroth
W2 - 5. Michele Romano (Italy): Video from the SEAS exercises approach
W2 - 6. Ozden Taskiran (Turkey): Bracing AIS: different braces and schools

11:30 - 12:00 BREAK

12:00 - 14:00 WORKSHOP 3

W3. Insight into UEMS-PRM efforts to foster ICF-supported clinical quality management in rehabilitation in Europe
Coordinator: Gerold Stucki(Switzerland)

W3 - 1. Mauro Zampolini (Italy)
W3 - 2. Melissa Selb (Switzerland)
W3 - 3. Carlotte Kiekens (Italy)
W3 - 4. Mark Delargy (Ireland)
W3 - 5. Gerold Stucki (Switzerland)

14:00 - 15:00 BREAK
Adriatic

8:00 - 9:30 WORKSHOP 4

W4. Manual medicine in temporo-mandibular disorders
Coordinator: Enrique Varela-Donoso (Spain)

W4 - 1. Enrique Varela-Donoso (Spain)

9:30 - 11:30 WORKSHOP 5

W5. Important Medical Considerations and Challenges in Oncology Rehabilitation
Coordinator: Tatjana Zdravkovic (Canada)

W5 - 1. Tatjana Zdravkovic (Canada): Chemo induced Peripheral neuropathy
W5 - 2. Patrice Patrice de Peiza (Canada): Lymphedema
W5 - 3. Jan Park Dorsay (Canada): Bone health and bone stability
W5 - 4. Dr. George Francis (Canada): Radiation induced changes
W5 - 5. Dr. David Harvey (Canada): Post mastectomy pain syndrome
W5 - 6. Lori J. Bernstein (Canada): Cancer related cognitive changes
W5 - 7. Tatjana Zdravkovic (Canada): Chemo induced cardiomyopathy

11:30 - 12:00 BREAK

12:00 - 14:00 WORKSHOP 6

W6. Models of Oncology Rehabilitation Care and Exercise as a Treatment in Patient with Cancer
Coordinator: David Harvey (Canada)

W6 - 1. David Harvey, David Lagelier, Jan Park Dorsay (Canada): Models of oncology rehabilitation care
W6 - 2. Lori J. Bernstein, Patrice De Peiza, Oren Cheifetz (Canada): Exercise effect on fatigue, sleep, mood, healthy BMI in patients with cancer
W6 - 3. Oren Cheifetz, David Lagelier (Canada): Exercise prescription for patients with cancer, including palliative care setting

14:00 - 15:00 BREAK

Baltic

8:00 - 9:30 WORKSHOP 7

W7. Gait analyses in multiple sclerosis, and time series
Coordinator: Hilal Keklice (PhD (Biomechanics), PT), Halit Selcuk, MSc, PT (Turkey)

W7 - 1. Hilal Keklice (Turkey): The multifaceted nature of the human walk
W7 - 2. Halit Selcuk (Turkey): Basic terminology, kinetics- kinematics
W7 - 3. Hilal Keklicek (Turkey): Gait; Chaos and order
W7 - 4. Hilal Keklicek (Turkey): The ability of variability at walk, autocorrelation and fractality
W7 - 5. Hilal Keklicek (Turkey): Gait dynamics and postural stability
W7 - 6. Hilal Keklicek (Turkey): Gait analyzing methods

- Kinetics deviations, Muscle impairment, Postural instability related gait deviations, Pyramidal or/and extrapyramidal impairment, Cortical impairment, Ground reaction, Fatigue, Cognitive impairment
W7 - 8. Hilal Keklicek (Turkey): Choosing the target focused gait analyzing method at correct time: We need who?
W7 - 9. Hilal Keklicek (Turkey): Interpretation of clinical findings; and choosing the right treatment strategy.

9:30 - 11:30 WORKSHOP 8

W8. Assessment of cardiac patient status and accident risk during rehabilitation
Coordinator: Milica Lazovic (Serbia)

W8 - 1. Milica Lazovic (Serbia): Importance of functional assessment of cardiac patients
W8 - 2. Dejan Spirovski (Serbia): Differences between a diagnostic test and a test that assesses functional capacity
W8 - 4. Dejan Spiroski (Serbia): Cardiopulmonary exercise testing (CPET) in the direct assessment of the intensity of physical exertion
W8 - 5. Dejan Spiroski (Serbia), Milica Lazovic (Serbia), Mojsije Andjic (Serbia): The case for using an exercise tolerance test.

11:30 - 12:00 BREAK

12:00 - 14:00 WORKSHOP 9

W9. Diagnostic Ultrasound in PRM
Coordinator: Ozcakar Levent (Turkey)

W9 - 1. Nikos Barotsis (Greece): Musculoskeletal US in PRM
W9 - 2. Kamal Mezian (Czech Republic): Imaging for nerve pathologies
W9 - 3. Levent Özçakar (Turkey): STAR: A golden formula in sarcopenia

14:00 - 15:00 BREAK

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Aegean

8:00 - 9:30 WORKSHOP 10

W10. HIV: A New Chronic Disease Population
Coordinator: David Burke (USA)

W10 - 1. David Burke (USA)

9:30 - 11:30 WORKSHOP 11

W11. Specifics of pediatric electrodiagnostics
Coordinator: Gulseren Akyuz (Turkey), Dejan Nikolić (Serbia)

W11 - 1. Gulseren Akyuz (Turkey): How different is pediatric EMG? Why do we need it?
W11 - 2. Ivana Petronic - Markovic (Serbia): Electrodiagnostic approach of external anal sphincter in children with anorectal anomalies
W11 - 3. Dejan Nikolic (Serbia): Electrodiagnostic elements of most frequent myopathies in children
W11 - 4. Evrim Karadag-Saygi (Turkey): Electrodiagnostic evaluation of hypotonic (floppy) baby

11:30 - 12:00 BREAK

12:00 - 14:00 WORKSHOP 12

W12. Mesotherapy in spine pain
Coordinator: Calogero Foti (Italy)

W12 - 1. Calogero Foti (Italy):
- History and Literature review
- Anatomy and Mechanisms of action
- Method, Instrumentation and Drugs
- Indications, Contraindications, Adverse reactions

14:00 - 15:00 BREAK

Danube

8:00 - 9:30 WORKSHOP 13

W13. Evaluation and assessment of osteoarthritic hand
Coordinator: Fitnat Dincer (Turkey)

W13 - 1. Fitnat Dincer (Turkey)

9:30 - 11:30 WORKSHOP 14

W14. Advances in extracorporeal shock wave therapy
Coordinator: Elena Ilieva (Bulgaria)

W14 - 1. Elena Ilieva (Bulgaria): Extracorporeal shock wave therapy – principles, indications, evidence about effectiveness in standard and some of the exceptional indications
W14 - 2. Nikolaos Barotsis (Greece): Optimizing ESWT with ultrasound guidance

11:30 - 12:00 BREAK

12:00 - 14:00 WORKSHOP 15

W15. Neurophysiological background of physical therapies
Coordinator: Roberto Casale (Italy)

W15 - 1. Roberto Casale (Italy):
- Basic in neurophysiology: receptors; afferent fibers; segmental and suprasegmental pathways; descending control
- Physical modalities: Mechanical; electrical; thermal and LASER stimulation
- How physical therapies interact with and within the nervous system
- How, when and where to apply physical therapies in practice
- Real and “defensive” contraindication.

14:00 - 15:00 BREAK

Sava

8:00 - 9:30 WORKSHOP 16

W16. Neurogenic bladder dysfunction, urodynamics’ interpretation
Coordinator: Christina-Anastasia Rapidi (Greece)

W16 - 1. Christina-Anastasia Rapidi (Greece)

9:30 - 11:30 WORKSHOP 17

W17. Advanced technologies in Rehabilitation Medicine
Coordinator: Enrique Varela-Donoso (Spain)

W17 - 1. Enrique Varela-Donoso (Spain)
W17 - 2. Cristina Herrera (Spain)
W17 - 3. Alfonso Oltra (Spain)

11:30 - 12:00 BREAK

12:00 - 14:00 WORKSHOP 18

W18. Non-psychiatric multi-disciplinary rehabilitation of patients with severe mental illnesses
Coordinator: Iuly Treger (Israel)

W18 - 1. Iuly Treger (Israel)
Tisa

8:00 - 9:30 WORKSHOP 19

W19. Electrodiagnostics in localization of neural injury at the upper and lower extremities  
Coordinator: Mark Lissens (Belgium), Marija Hrkovic (Serbia)

W19 - 1. Mark Lissens (Belgium): Electrodiagnostic assessment of entrapment neuropathies  
W19 - 2. Marija Hrkovic (Serbia): Electrodiagnostic assessment of brachial plexopathies

9:30 - 10:30 SPONSORED WORKSHOP 20

W20. Spinal muscular atrophy: new therapies and new challenges  
Coordinator: Evrim Karadag-Saygi (Turkey)

W20 - 1. Esra Giray (Turkey): Pathophysiology and clinical presentation of Spinal Muscular Atrophy  
W20 - 2. Ozge Kenis-Coskun (Turkey): Nusinersen: how it works, dosing schedule, safety profile  
W20 - 3. Evrim Karadag-Saygi (Turkey): Why should we know Nusinersen treatment as a physiatrist?  
Real-world clinical setting experience

10:30 - 11:30 WORKSHOP 21

W21. Long term side effects of cancer and cancer treatments  
Coordinator: Evren Atabas (Germany)

W21 - 1. Evren Atabas (Germany)

11:30 - 15:00 BREAK

Mediterranean / Adriatic

17:00 - 19:00 SCIENTIFIC SESSION

My rehab thesis in 180 seconds (MRT180) session  
Coordinator: Aydan Oral (Turkey), Nikolaos Barotsis (Greece)

OP: Eduardo Rocha (Brazil): The phantom pain treatment using Inco botulinum toxin A - series of cases

16:30 - 17:00 BREAK

17:00 - 19:00 LAB SESSION

Coordinator: Aydan Oral (Turkey)
Ayse Kucukdeveci (Turkey): Labs’ session: research on complex regional pain syndrome in a hand rehabilitation unit
Annika Sefastsson (Sweden), Xiaolei Hu, Britt-Marie Ståhlhac, 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
Oleksander Vladymyrov, Volodymyr Golyk (Ukraine): The Curriculum and Program of the course of specialization of PRM doctors in Ukraine.
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.
Kristian Borg (Sweden): Research at the division of Rehabilitation Medicine at Karolinska Institutet, Stockholm Sweden
Ljubica Konstantinovic (Serbia): Clinic for Rehabilitation "Dr Miroslav Zotovic" from 1952 to 2020
Aysegul Ketenci, Demirhan Diracoglu, Emel Ozca (Turkey): Research in a university hospital department: the department of Physical Medicine and Rehabilitation, Istanbul Faculty of Medicine, Istanbul University
Frane Grubisic, Simeon Grazio, Vedran Brnić, Igor Gruić (Croatia): Biomechanics laboratory - Training Center - Clinical setting: three steps toward successful rehabilitation.

Baltic / Aegean

15:00 - 16:30 SCIENTIFIC SESSION

ESPRM TESC Session 2020 Belgrade
Coordinator: Enrique Varela-Donoso (Spain), Henk Stam (Netherlands)

16:30 - 17:00 BREAK

17:00 - 19:00 SCIENTIFIC SESSION

ESPRM SISC Session on Medical Balneology
Chairpersons: Pedro Cantista (Portugal), Dejan Nesic (Serbia)

Pedro Cantista (Portugal): Balneology and PRM: from basic science to clinical practice
Dejan Nesic (Serbia): Balneology in Serbia - yesterday, today, tomorrow.
Albrecht Falkenbach (Austria): Climatology: sunshine exposure has positive effects
Aleksandar Jokic (Serbia): The effect of sulfuric water and mud therapy on serotonin activity and other biochemical parameters in patients’ plasma
Gordana Stefanovski (SR, B&H): Investigations about the effects of balneotherapy in Republic Srpska

OP: Lina Varzaityte (Lithuania): The effect of Balneotherapy on patients with knee joint osteoarthritis
OP: Nazim Badalov (Russia): Effect of weather conditions on the treatment of patients with cardiovascular diseases
15:00 - 16:30 ORAL PRESENTATIONS

**Musculoskeletal Disorders**

**Bone Disease (Osteoporosis)**

*Chairpersons*: Marco Monticone (Italy), Tonko Vlak (Croatia)

**OP**: Valentina Koevska (North Macedonia): The role of strengthening and stretching exercises in women with postmenopausal osteoporosis

**OP**: Larisa Marchenkova (Russia): Static and dynamic balance function in patients with osteoporotic vertebral fractures

**OP**: Tanja Jankovic (Serbia): The importance of chronic back pain in the diagnosis of vertebral fractures in postmenopausal women

**OP**: Adriana Pascoal (Portugal): Review of an off-label treatment for aseptic nonunion fracture with teriparatide

**OP**: Larisa Marchenkova (Russia): The evaluation of osteoporosis risk factors and absolute fracture risk in patients undergoing rehabilitation

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

**OP**: Jelena Zvekic-Svorcan (Serbia): Self-assessed vs medically determined hand osteoarthritis in postmenopausal women

**OP**: Yannis Dionyssiotis (Greece): Bone and muscle impairment in paraplegia

16:30 - 17:00 BREAK

17:00 - 19:00 ORAL PRESENTATIONS

**Engineering and Robotics**

*Chairpersons*: Daiana Popa (Romania), Gabor Fazekas (Hungary)

**OP**: Deepak Kapgate (India): An Optimized Hybrid SSVEP + P300 Brain Computer Interface System and its Application to Computer Cursor Control

**OP**: Ileana Ciobanu (Romania): Technology for assisting people with neurocognitive disorders in activities of daily living – coachmylife project

**OP**: Gabriella Tónay (Hungary): A survey of post-stroke users and their caregivers on assistive technologies

**OP**: Suzana Dedijer Dujovic (Serbia): An evaluation of gait parameters after the utilization of novel multi-pad functional electrical stimulation in stroke patients

**OP**: Ying Liu (China): Correlation between gait and near-infrared brain effective connectivity in the elderly with cognitive impairment

**OP**: Sangah Jeong (Korea): Double eyelid tape use in severe ptosis in myotonic muscular dystrophy patient

**OP**: Irina Borodulina (Russia): Repetitive transcranial magnetic stimulation in the rehabilitation of Parkinson’s disease patients

**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

Sava

15:00 - 15:30 SCIENTIFIC SESSION

Current Status of Telerehabilitation
Chairpersons: Francois Constant Boyer (France), Vera Madzarevic (Canada)

Vera Madzarevic (Canada): The impact of smartphone apps in rehabilitation medicine, a comprehensive review and analysis

OP: Stefano Moriconi (Italy): The magic glass project: feasibility of a tele-rehabilitation intervention based on immersive virtual reality in chronic post-stroke patients

15:30 - 16:30 SCIENTIFIC SESSION

Women and neurorehabilitation
Chairpersons: Sara Lax (Spain), Marta Supervia (Spain)

Sara Lax (Spain): Women who suffer stroke: do they have special needs in rehabilitation? Stroke and pregnancy
Christina-Anastasia Rapidi (Greece): Special issues of women with SCI

OP: Eefje Luijckx (Switzerland): Sex gap in mortality in the Netherlands

16:30 - 17:00 BREAK

17:00 - 19:00 ORAL PRESENTATIONS

Physical Modality in Rehabilitation
Chairpersons: Stefano Masiero (Italy), Olivera Ilic Stojanovic (Serbia)

OP: Aníbal Báez Suárez (Spain): Effectiveness of non-invasive neuromodulation in children with neurodevelopmental disorders to improve constipation and sleep quality. A preliminary study
OP: Una Veseta (Latvia): The effects of the Swedish massage course intensity on the muscle strength of upper extremities of healthy individuals
OP: Oksana Gorsha (Ukraine): Use of kinesiotaping and treatment exercises for headache in children
OP: Andrii Tsikhomskyi (Ukraine): Improving the efficiency of rehabilitation of persons with muscle asymmetry by using a biofeedback system
OP: Salvatore Cassarino (Italy): Impact of tai-chi on balance, gait and quality of life in Parkinson disease: a randomized controlled trial
OP: Klejda Tani (Albania): How does the level of pain changes in patients with knee osteoarthritis depending on their age, with the help of kinesiotape.
OP: Othmar Schuhfried (Austria): Iontophoresis with corticosteroids in musculoskeletal pain syndromes: an overview of the existing literature
OP: Eleftherios Stefas (Greece): Adult onset idiopathic ambulatory focal lower extremity dystonia successfully treated with FES.
OP: Sukbong Yun (Russia): The prevention effect of whole body vibration on orthostatic hypotension in spinal cord injury patients – A pilot study
OP: Biljana Mitrevska (North Macedonia): Physical Therapy and quality of life in patients with surgically treated per trochanteric fractures

Tisa

15:00 - 16:30 ORAL PRESENTATIONS

Cardiopulmonary Rehabilitation
Chairpersons: Catarina Aguiar Branco (Portugal), Marina Delic (Montenegro)

OP: Claudia Esther Villanueva Larumbe (Spain): Training above the anaerobic threshold in Coronary Artery Disease (CAD) patients
OP: Slavica Kozomara (Serbia): Effect of continuous and interval physical training in the rehabilitation of patients after surgical revascularization of the heart
OP: Milena Stoickev (Serbia): The influence of rehabilitation treatment on risk factors for cardiovascular diseases in patients after coronary artery bypass graft surgery
OP: Svitlana Hrechko (Ukraine): Evaluation of the level of kinesiophobia in patients with heart failure
OP: Marina Delic (Montenegro): Voluntary regulated breathing practice: a significant additional tool for anti-stress protocol in the Institute „Dr Simo Milosevic“ Igalo
OP: Tatjana Radovanovic (Serbia): Primary prophylaxis - the importance in the prevention of venous tromboembolism in surgery of the hip and knee
OP: Qing Du (China): Effect of home-based exercise on motor development in children treated for congenital heart disease with catheterization
OP: Milena Kostadinovic (Serbia): Evaluation of the influence on everyday activities limitation due to health problems on physical functioning in elderly

16:30 - 17:00 BREAK

17:00 - 19:00 PUBLIC SESSION

Public Conference on the inclusion of the Students with Disabilities in the University of Belgrade - Center for students with disabilities
Coordinators: Dejan Nikolic (Serbia), Milica Lazovic (Serbia)

Participants:
8:30 - 9:30 PLENARY SESSION

Stefano Negrini (Italy): Cochrane Rehabilitation
Satish Mishra (WHO): State of Rehabilitation in the WHO European Region and call for actions

9:30 - 10:30 JOINT SESSION

ISPRM Session
Chairpersons: Carlotte Kiekens (Italy), Satish Mishra (WHO), Christoph Gutenbrunner (Germany)

Carlotte Kiekens (Italy): Rehabilitation 2030, a WHO initiative for the strengthening of rehabilitation in health systems
Christoph Gutenbrunner (Germany): International classification of service organization in rehabilitation: an updated set of categories (ICSO-R 2.0)

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 SCIENTIFIC SESSION

ESPRM SISC Session in Stroke
Part I
Stroke Rehabilitation Strategies
Chairpersons: Ljubica Konstantinovic (Serbia), Isabelle Laffont (France)

Ljubica Konstantinovic (Serbia): Stroke rehabilitation strategies
Isabelle Laffont (France): Recording of brain signal in PRM: helpful
Francois Boyer (France): New insights to care stroke in PRM setting: define modular
Galina Ivanova (Russia): The result of large clinical trial “Development of Medical rehabilitation in Russia” (DOME): three level patient-oriented, multidisciplinary and problem-focused rehabilitation of stroke patient
Evrim Karadağ Saygi (Turkey): Evaluation of physical activity and related factors in a sample of Turkish patients with stroke

OP: Ji Hye Kang (Korea): Sagittal alignment as a prognostic factor of standing balance in stroke patients

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 JOINT SESSION

UEMS PRM Board Session
Part I
Fostering the highest educational standards in physical and rehabilitation medicine: The European PRM Board strategy

**Chairpersons:** Maria Gabriella Ceravolo (Italy), Walter Frontera (USA)

**Maria Gabriella Ceravolo** (Italy): Standards in PRM education: The UEMS - PRM Board core curriculum of knowledge and competencies

**Walter Frontera** (USA): The ISPRM core curriculum & competency

**Rolf Frischknecht** (Switzerland): The assessment of theoretical knowledge through an MCQ-based examination

**Wim Janssen** (Netherlands): The assessment of Entrust able Professional Activities: the Netherlands experience

**Nikos Barotsis** (Greece), **Aydan Oral** (Turkey): Quality assurance in the UEMS PRM Board examination process

16:30 - 17:00 COFFEE BREAK

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**Atlantic 1**

9:30 - 10:30 SCIENTIFIC SESSION

**ESPRM SISC Session for Ultrasonography in PRM**

**Interventional Ultrasound in PRM**

**Chairpersons:** Ozcakar Levent (Turkey)

**Levent Özçakar** (Turkey): 'US-guided' vs. 'US guides'

**Kamal Mezian** (Czech Republic): Interventions of the limbs

**Levent Özçakar** (Turkey): Interventions of the spine/trunk

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 SCIENTIFIC SESSION

**Physical Therapy Modalities and Rehabilitation**

**Chairpersons:** Roberto Casale (Italy), Calogero Foti (Italy)

**Roberto Casale** (Italy): Neurophysiological background of physical therapies

**Calogero Foti** (Italy): Vibration energy in physiotherapy

**Olivera Ilic Stojanovic** (Serbia): The importance of choosing the parameters of laser therapy and application methods in musculoskeletal disorders. How far are we from consensus?

**Stefano Masiero** (Italy): Short-wave diathermy for the treatment of musculoskeletal disorders. A preliminary report

OP: **Anibal Baez Suarez** (Spain): Effectiveness of non-invasive neuromodulation in children with neurodevelopmental disorders to improve constipation and sleep quality. a preliminary study

OP: **Marija Gocevska** (North Macedonia): Comparison the effectiveness of high-intensity laser therapy and ultrasound treatment in the patient with chronic low back pain
OP: Edina Tanovic (B&H): The effect of intermittent traction therapy on the pain in the patients with chronic back pain

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 SCIENTIFIC SESSION

**Bone Diseases (e.g. Osteoporosis)**
**Chairpersons:** Ayse Kucukdeveci (Turkey), Amila Kapetanovic (B&H)

**Ayse Kucukdeveci** (Turkey): Acute osteoporotic fractures: physical and rehabilitation medicine approach

**Radisa Pavlovic** (Serbia): Current challenges in the treatment of osteoporosis – clinical implications

**Milena Jurisevic** (Serbia): Frailty, sarcopenia and type-2 diabetes mellites: underlying mechanisms and potential pharmacological interventions

**Vladimir Biocanin** (Serbia): Orofacial changes in patients with sarcopenia and osteoporosis - review of the literature

OP: **Amila Kapetanovic** (B&H): Relationship between exposure to endogenous estrogens and skeletal fragility in Bosnian postmenopausal women

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

16:30 - 17:00 COFFEE BREAK

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**Atlantic 3**

9:30 - 10:30 SCIENTIFIC SESSION

**COVID-19 Epidemic and Physical and Rehabilitation Medicine**

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 SCIENTIFIC SESSION

**Electrodiagnostics in PRM**
**Chairpersons:** Mark Lissens (Belgium), Dejan Nikolic (Serbia)

**Mark Lissens** (Belgium): The use of motor evoked potentials (MEPs) in rehabilitation

**Marija Hrkovic** (Serbia): Electrodiagnostic assessment of brachial plexopathies

**Dejan Nikolic** (Serbia): Electrodiagnostic of myopathies in children

**Ivana Petronić-Marković** (Serbia): Diagnostic and prognostic relevance of neuro-physiological findings in pediatric rehabilitation

OP: **Oya Umit Yemisci** (Turkey): Sympathetic skin respond and reaction times in chronic autoimmune thyroidits; an overlooked electrodiagnostic study

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OP: Nam-Gyu Jo (South Korea): Relationship between intervertebral foraminal stenosis and dermatomal somatosensory evoked potentials

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 SCIENTIFIC SESSION

ESPRM SISC Sessionin Musculoskeletal Disorders
Part II: Back Pain and Spine Disorders
Chairpersons: Francesca Gimigliano (Italy), Olivera Djordjevic (Serbia)

Francesca Gimigliano (Italy): Cochrane evidence for the rehabilitative treatment of low back pain
Marco Monticone (Italy): Responsiveness and minimal clinically important difference of the fear avoidance and beliefs questionnaire in Italian subjects with chronic low back pain undergoing multidisciplinary rehabilitation
Olivera Djordjevic (Serbia): Difference between subjects in the early chronic phase of low back pain with and without neuropathic component: an observational cross-sectional study

OP: Demoulin Christophe (Belgium): Effectiveness of three educational tools in patients with chronic low back pain: a randomized controlled trial
OP: Anita Stankovic (Serbia): Supervised individually designed exercises for chronic low back pain
OP: Jaemin Kim (South Korea): Effects of prolotherapy using platelet-rich plasma for chronic non-specific low back pain
OP: Giuseppe De Bernardo (Spain): Whiplash syndrome: what is new in its management?

16:30 - 17:00 COFFEE BREAK

MEDITERRANEAN/ADRIATIC

9:30 - 10:30 SCIENTIFIC SESSION

Musculoskeletal trauma and sports injury
Chairpersons: Calogero Foti (Italy), Sanja Mazic (Serbia)

Calogero Foti (Italy): Muscular evaluation on PRM and Sport
Sanja Mazic (Serbia): Preparticipation screening of elite athletes, Serbian model aerobic capacity and sport results
Emilija Dubljanin Raspopovic (Serbia): Current trends in tendinopathy management

OP: Eunsil Cha (Korea): Non-powered automatic velocity-controlled wheeled walker improves gait and satisfaction in patients with hip fracture when walking downhill: A within-participant repeated measures experimental study

10:30 - 11:00 COFFEE BREAK
11:00 - 13:30 SCIENTIFIC SESSION

Rehabilitation Service Organisation
Part I
Chairpersons: Christoph Gutenbrunner (Germany), Galina Ivanova (Russia)

Christoph Gutenbrunner (Germany): Approaches to strengthen in rehabilitation services and workforce capacity building in Eastern European countries
Galina Ivanova (Russia): Integration of rehabilitation into process of rendering medical care at various levels and at various stages of rendering medical care
Catarina Aguiar Branco (Portugal): Integrating palliative rehabilitation in the final trajectory of respiratory disease patient’s care
Iuly Treger (Israel): Addressing the issue of continuity of care: programs and algorithms for early management and appropriate transfer from acute departments to rehabilitation settings
Oleksander Vladymyrov, Volodymyr Golyk (Ukraine): Creating new system of rehabilitation in Ukraine

OP: Yvona Angerova (Czech Republic): Functional assessment in stroke centers in Czech Republic

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 SCIENTIFIC SESSION

Cancer Rehabilitation
Chairpersons: Iuly Treger (Israel), Tatjana Zdravkovic (Canada)

Tatjana Zdravkovic (Canada): Important medical considerations and challenges in oncology rehabilitation
Iuly Treger (Israel): In-patient oncological rehabilitation during intensive cancer treatment
David Harvey (Canada): Models of oncology rehabilitation care and exercise as a treatment in patient with cancer
Natasa Mujovic (Serbia): Feasibility and effectiveness of preoperative pulmonary rehabilitation
Evren Atabas (Germany): Long term side effects of cancer and cancer treatments

16:30 - 17:00 COFFEE BREAK

Baltic/Aegean

9:30 - 10:30 SCIENTIFIC SESSION

ESPRM SISC Session in Spinal Cord Injury
Chairpersons: Christina-Anastasia Rapidı (Greece), Piotr Tederko (Poland)

Francesca Gimigliano (Italy): Evidence based treatments for urinary incontinence
Piotr Tederko (Poland): Age specificities in the etiology of spinal cord injury

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OP: Tatiana Builova (Russia): Our Experience of rehabilitation of patients with spinal cord injury
OP: Metka Moharić (Slovenia): Lower urinary tract functioning after vertebrae Th12, L1 and L2 fracture
OP: Ju-Yul Yoon (South Korea): Types of detrusor-sphincter dyssynergia in the spinal cord injured and non-neurogenic bladder

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 SCIENTIFIC SESSION

**ESPRM SISC Session in New Technologies and Robotics in Rehabilitation**

*Part I*

**Chairpersons:** Alessandro Giustini (Italy), Gabor Fazekas (Hungary)

Alessandro Giustini (Italy): Activities of SISC Robotics and ESPRM Robotic School

Gabor Fazekas (Hungary): Robots in rehabilitation post-stroke: can they really improve the outcome?

Daiana Popa (Romania): Robotic rehabilitation chair

Antonina Aleksic (Serbia), Radoje Cobeljic (Serbia), L. Popovic-Maneski (Serbia), D. Popovic (Serbia):
New measure for quantifying spasticity: extended PT+ score

OP: Tijana Dimkić Tomic (Serbia): Arm assist robotic system for arm training in subacute stroke patients

OP: Rastislava Krasnik (Serbia): Acceptance of humanoid robots measured by Frankenstein-syndrome questionnaire

OP: Yulia Bushkova (Russia): The effect of motor images in patients after a stroke on the effectiveness of BCI technology

13:00 - 14:30 MEETING

**General Assembly of the Individual Members of ESPRM**

14:30 - 16:30 SCIENTIFIC SESSION

**ESPRM SISC Session in Respiratory Diseases**

**Chairpersons:** Aydan Oral (Turkey), Francois Constant Boyer (France)

Aydan Oral (Turkey): The effectiveness of pulmonary rehabilitation in persons with respiratory conditions

Gerold Ebenbichler (Austria): Optimizing Functioning and Health after Lung Transplantation: The Role of Therapeutic Exercise

Francois Boyer (France): COPD rehabilitation

Mark Lissens (Belgium): Electrodiagnosis of the respiratory system.

OP: Sofia Ferfeli (Greece): Effects of aerobic exercise and incentive spirometer use on the respiratory muscle strength of neuro-disabled patients

OP: Nicola Marotta (Italy): Diaphragmatic rehabilitation in gastroesophageal reflux disease

16:30 - 17:00 COFFEE BREAK
Musculoskeletal Disorders
Part I: Back Pain and Spine disorders
Chairpersons: Erieta Nikolic Dimitrova (North Macedonia), Gordana Devecerski (Serbia)

OP: Andrea Domjan (Hungary): Improving neuromuscular efficacy by activating the local stabilizers of the cervical spine
OP: Eun Seok Kim (Korea): Accuracy of physical examination for lumbosacral radiculopathy in chronic and non-chronic state
OP: Mikhail Tsykunov (Russia): Power test differentiation the lower back pain on the device with biological feedback on the force
OP: Marina Vukovic (Montenegro): Low back pain and disability in activities of daily living
OP: Lidija Stojanoska–Matjanoska (North Macedonia): Occupational exposure to whole-body vibration associated to the higher degree of lumbar disc degeneration
OP: Evelin Gryspeerdt (Belgium): A rare case of a true neurogenic thoracic outlet syndrome

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 ORAL PRESENTATIONS

Cancer Rehabilitation
Chairpersons: Tatjana Zdravkovic (Canada), 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: Meritxell Ortí (Spain): Incidence of scapular dyskinesia in the surgical treatment of breast cancer, prospective study
OP: Jan Taeymans (Switzerland): The economic burden of chronic stroke-related disorders in the Basle area in Switzerland – a cost-of-illness study
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

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 ORAL PRESENTATIONS

Rehabilitation Service organization
Chairpersons: Boya Nugraha (Germany), Volodymyr Golyk (Ukraine)

OP: Boya Nugraha (Germany): Rehabilitation service assessment and workforce capacity building in Albania
OP: Ludmila Kozhushko (Russia): Assisted living as a new form of a lifestyle
OP: Antonios Kontaxakis (Greece): The interdisciplinary spasticity clinic focusing in hereditary spastic paraplegia: 2 cases
OP: Gennady Ponomarenko (Russia): National model of comprehensive rehabilitation in Russia
OP: Kinley Roberts (Ireland): Enhancing interdisciplinary team (IDT) working in a national rehabilitation hospital during a transition to a new hospital facility: a project plan
OP: Jemma Keeves (Australia): Just because we are managing doesn’t mean he’s been managed well.” Factors influencing the care of seriously injured patients in rural and urban settings
OP: Katerina Rybarova (Czech Republic): Work of occupational therapists in prevocational assessment centers in the Czech Republic
OP: Erzsebet Boros (Hungary): Comparison of the effect of lifestyle therapy on patients with lymphedema among in- and outpatient care
OP: Andreea Georgiana Marin (Romania): Media content for personalized reminiscence therapy – the sense-garden project experience

16:30 - 17:00 COFFEE BREAK

Pacific/Atlantic

17:00 - 18:30 PLENARY SESSION

Jorge Lains (Portugal): The future of PRM around the world: a must in every Health System for “Good Health and Well-Being”
Walter Frontera (USA): Rehabilitation and Frailty
Nicolas Christodoulou (Cyprus): The future of Physical and Rehabilitation Medicine in Europe

18:30 - 19:15 SCIENTIFIC SESSION

Milica Lazovic (Serbia): History of Physical and Rehabilitation Medicine in Serbia
Dejan Popovic (Serbia): Rehabilitation Engineering in Serbia
Vladimir Kostic (Serbia): History of the Serbian Academy of Sciences and Arts

19:15 - 20:15 OPENING CEREMONY

20:15 NETWORKING RECEPTION
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 SESSION

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 SCIENTIFIC SESSION

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

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?

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 SCIENTIFIC SESSION

ESPRM SISC Session in Cardiovascular Diseases
Part I
Chairpersons: Milica Lazovic (Serbia), Carmen Terzic (USA)

Branko Beleslin (Serbia): Challenges in diagnosis of CAD in regard to 2019 ESC guidelines for chronic coronary syndrome and 2019 ESC/ EASD guidelines for diabetes, pre-diabetes and CV diseases
Milica Lazovic (Serbia): What has changed in Cardiac Rehabilitation today?
Carmen Terzic (USA): Cardiac Rehabilitation in special populations with non-coronary cardiac disease
Marina Deljanin Ilic (Serbia): Gender differences in cardiovascular rehabilitation: whether women benefit equally with men?

OP: Nana Pogosova (Russia): Distant technologies in cardiac rehabilitation of patients with ischemic heart disease.
OP: Yuriy Dovgalyuk (Russia): Changes of the exercise tolerance in patients with myocardial infarction after outpatient cardiac rehabilitation

16:30 - 17:00 COFFEE BREAK

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

9:30 - 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 lymphedema: a preliminary report

OP: Sandra Vázquez Gallego (Spain): Associated factors of axillary web syndrome in patients affected by breast cancer: a retrospective study
OP: Martina Micheletti (Italy): Neurodynamic and manual therapy in post-mastectomy pain syndrome (PMPS)
10:30 - 11:00 COFFEE BREAK

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

**OP:** **Anatoly Belyaev** (Russia): Rehabilitation of children with pain syndromes  
**OP:** **Slavica Varagic Markovic** (Serbia): The importance of early diagnosis and rehabilitation of infants with brachial plexus damage

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): Weight regain: mechanisms and management
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

9:30 - 10:30 SCIENTIFIC SESSION

ESPRM SISC Session for the Rehabilitation of P & O users
Part I: Prosthetics
Chairpersons: Deidre Desmond (Ireland), Igor Simanic (Serbia)

Pedro Cantista (Portugal): New developments in lower limb prosthetics
Igor Simanic (Serbia): Oxygen therapy under hyperbaric conditions in correlation with prosthetic rehabilitation of lower limb amputees
Deidre Desmond (Ireland): Community participation after lower limb rehabilitation

OP: Ana Saksida (Slovenia): The impact of co-morbidities and cognitive capabilities on walking with prosthesis in patients with lower limb loss
OP: Igor Popovic (Serbia): Clinical evaluation of a sensory feedback restoration neuroprosthesis for lower-limb amputees

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)

Presentation of the winners: TESC
Enrique Varela Donoso, Henk Stam
Presentation of the best contestants: MRT 180
Aydan Oral, Nicolas Christodoulou

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 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

**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

**OP:** Mikhail Saltychev (Finland): Minimal clinically important difference and minimal detectable change of the WHODAS 2.0 amongst patients with chronic musculoskeletal pain

**Mediterranean / Adriatic**

9:30 - 10:30 SCIENTIFIC SESSION

**Language and Speech Disorders**

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

**ESPRM2020 - September 19th-23rd, Belgrade, Serbia / Scientific Preliminary Programme**
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: Goran Savić (SR, B&H): 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: Maria Luisa Brandi (Italy), Jean-Yves Reginster

Radmila Matijevic (Serbia): The treatment gap in osteoporosis: a medical and ethical concern
John Kanis (UK): The ESCEO-IOF 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

Discussion

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 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
- **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

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**Baltic / Aegean**

9:30 - 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

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 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:** **Olena Dolynna** (Ukraine): ICF-model in assessment of functioning, goals setting and choice of rehabilitation interventions in persons with arterial hypertension

**OP:** **Lina Butane** (Latvia): Participation assessment in patients with pulmonary arterial hypertension: IPA & SF-36 contextual analysis

**OP:** **Nevena Krstic** (Serbia): The importance of rehabilitation in the treatment of persons with hemophilia and inhibitors: our experiences

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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 **COFFEEBREAK**

17:00 - 19:00 **SCIENTIFIC SESSION**

**ESPRM SISC Session** for the **Rehabilitation of P&O users**

**Part II: Orthotics**

**Chairpersons:** Helena Burger (Slovenia), Dick Plettenburg (Netherlands)
Stefano Negrini (Italy): Conservative treatment of spinal deformities
Nerrolin Ramstrand (Sweden): Evidence for use of ankle foot orthoses in early post stroke management – a systematic review
Dick Plettenburg (Netherland): Upper limb orthoses – The DIPO approach
MS Wong (Hong Kong): The effect of pressure pad location of spinal orthosis on the treatment of adolescent idiopathic scoliosis
Helena Burger (Slovenia): Lower limb orthosis and balance confidence

OP: Ko Seuk-ki (Korea): Dimensional accuracy analysis of resting pan splint manufactured with fused deposition modeling 3D printing technology

Specific topics in Stroke Rehabilitation
Chairpersons: Piotr Tederko (Poland), Nela Ilic (Serbia)

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

10:30 - 11:00 COFFEE BREAK

Assessment of Functioning
Chairpersons: Denes Zoltan (Hungary), Andjela Milovanovic (Serbia)

OP: En-Chi Chiu (Taiwan): Practice effect of the Motor-Free Visual Perception Test-4 in people with stroke
OP: Antonios Kontaxakis (Greece): The Greek experience of developing simple, intuitive descriptions of the Rehabilitation (Generic-30) Set categories
OP: Luca Latini (Italy): The pathophysiological role of the fascial system in post stroke spasticity: efficacy of the upper limb manipulative treatment

OP: Maria Krivošikova (Czech Republic): Validity and minimal clinically important difference of the modified Frenchay scale in chronic stroke patients

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: Jiejiao Zheng (China): Functioning Evaluation for Patients with Chronic Diseases Using World Health Organization Disability Assessment Schedule 2.0

OP: Anna Balzer (Israel): Delirium related risk factors and rehabilitation outcomes among elderly patients hospitalized after hip fracture surgery: Historical cohort study

OP: Esra Giray (Turkey): Reliability and construct validity of the Turkish version of the prosthesis donning and doffing questionnaire for trans-tibial amputees

OP: Aleksei Shmonin (Russia): Using animals’ classification of functioning for rats with experimental stroke for comparison with the limitation of functioning implement ICF in acute stroke patients

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

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

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 ORAL PRESENTATIONS

Cerebral Palsy and Spina bifida
Chairpersons: Wim Janssen (Netherlands), Lidija Dimitrijevic (Serbia)

OP: Joao Capelo (Portugal): Cerebral palsy: inclusion in the Portuguese education system

OP: Danijela Vukićević (Serbia): Correlation of brain ultrasound, gestational age and Bayley iii scale scores

OP: Dragan Zlatanovic (Serbia): Ultrasound of CNS in preterm infants as a supplementary method for prediction of later neurological deficit

OP: Madalena Rangel (Portugal): Cerebral palsy surveillance program: where do we stand on a regional level and how to design an effective rehabilitation network?

OP: Čila Demešić-Drlijan (Serbia): Gross motor function and comorbidities in cerebral palsy

OP: Lara Mancini (France): Selective dorsal rhizotomy as a treatment of spasticity in children with cerebral palsy: goals of a new “0 level” surgical technique

OP: Alexander Shoshmin (Russia): Lessons learnt from specialist training on functioning assessment of children with cerebral palsy in Russia

OP: Dobrinka Dragic (SR, B&H): Scoliosis in children with cerebral palsy in relation to cerebral palsy types and gross motor function classification system (GMFCS)

OP: Ju-Yul Yoon (South Korea): Functional assessment of cerebral palsy patient with ipsilateral MEP evoked

OP: Merve Damla Korkmaz (Turkey): The effect of adaptive seating system on coronal and sagittal balance of the spine and pelvic obliquity in no ambulatory patients with cerebral palsy and scoliosis

16:30 - 17:00 COFFEE BREAK
ORAL PRESENTATION

Musculoskeletal Diseases – Osteoarthritis
Chairpersons: Fitnat Dincer (Turkey), Snezana Tomasevic Todorovic (Serbia)

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: 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: Ivan Diklic (Serbia): Treatment of the reverse shoulder arthroplasty in patients with type-3 extracapsular posttraumatic fracture sequelae of the proximal humerus
OP: Bader Alqahtani (Saudi Arabia): Prevalence of frailty and associated risk factors among Saudi community-dwelling older adults
8:30 - 9:00 PLENARY SESSION

**Henk Stam** (Netherlands): Acute Medical Rehabilitation: Why, when and how?

9:00 - 10:30 JOINT SESSION

**Joint Session SAPRM**
30 years of Acute Medical Rehabilitation in Clinical Center of Serbia  
**Chairpersons:** Henk Stam (Netherlands), Dragana Matanovic (Serbia)

- **Sanja Tomanovic Vujadinovic** (Serbia): Principles of maintaining acute rehabilitation after critical disease
- **Dragana Matanovic** (Serbia): Possibility of acute rehabilitation in patients of post reanimation coma in intensive care units
- **Andjela Milovanovic** (Serbia): Early rehabilitation after aneurysmal subarachnoid hemorrhage in patients operated in the acute term - when started
- **Mirko Grajic** (Serbia): Fall and fracture prevention and gait training in acute rehabilitation

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 SCIENTIFIC SESSION

**ESPRM SISC Session in Stroke**  
Part II: Advances in basic and clinical research  
**Chairpersons:** Marco Franceschini (Italy), Kristian Borg (Sweden)

- **Marco Franceschini** (Italy): Neuroplasticity assessment in stroke rehabilitation
- **Aleksandra Vidakovic** (Serbia): Gait Training of Subacute Stroke Patients Assisted by the Walkaround®
- **Nela Ilic** (Serbia): Long-term effects of TDCS and motor training on hand motor impairment in chronic stroke survivors

**OP:**  
- **Stoyan Bozhinov** (Bulgaria): Therapeutic application of repetitive transcranial magnetic stimulation under EEG control in stroke rehabilitation
- **Ioan-Sorin Stratulat** (Romania): Stroke: virtual reality and robotics versus classic therapies
- **Jakub Jeniček** (Czech Republic): Gait training in post-stroke patients: effect of peroneal nerve functional electrical stimulation
- **Jun Hyun Choi** (South Korea): The efficacy of combination tDCS and TENS in stroke patients
- **Ana Margarida Monteiro** (Portugal): Dual-task: a response to 21st century demands – the development of an assessment and intervention protocol

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 SCIENTIFIC SESSION
Session Cochrane Rehabilitation
Chairpersons: Frane Grubišić (Croatia), Elena Ilieva (Bulgaria)

Carlotte Kiekens (Italy): Cochrane Rehabilitation as a tool to bring evidence to practice
Stefano Negrini (Italy): New rehabilitation definition and guidelines for RCTs reporting
Francesca Gimigliano (Italy): Cochrane Rehabilitation e-book and prioritization project

16:30 - 17:00 COFFEE BREAK

17:00 - 19:00 SCIENTIFIC SESSION

ESPRM SISC Session in Multiple Sclerosis
Chairpersons: Martina Kővári (Czech Republic), Mauro Zampolini (Italy)

Mauro Zampolini (Italy): Fatigue and disability in multiple sclerosis persons
Martina Kővári (Czech Republic): Cardiovascular and resistive training as important part of MS therapy.
Vincent De Groot (Switzerland): Gait analysis to guide treatment decisions in patients with MS.
Gianpaolo Brichetto (Italy): Robotic rehabilitation and wearable devices in MS patients

OP: Sindri Rodic (Serbia): The effects of Functional Electrical Stimulation Cycling and exercise training on functional outcomes in persons with multiple sclerosis

Atlantic 1

9:00 - 10:30 SCIENTIFIC SESSION

ESPRM SISC Session for PRM in Metabolic Diseases
Chairpersons: Paolo Capodaglio (Italy), Vesna Bokan (Montenegro)

Paolo Capodaglio (Italy): Rehabilitation interventions in the patient with obesity
Vesna Bokan (Montenegro): The importance of early diagnosis and treatment of diabetic foot problems in the prevention of amputations

OP: Valeria Vasileva (Russia): Comparative effectiveness of three methods for body composition assessment in the verification of manifestations of sarcopenia in obese patients
OP: Aneta Bajalska (North Macedonia): Osteoarthritis and diabetes: the closed loop
OP: Valeria Vasileva (Russia): Kinesiotherapy in weight loss and muscle function improving in obesity patients

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 SCIENTIFIC SESSION
**ESPRM SISC Session for Persons with Musculoskeletal Disorders**

**Part III: Knee and Hip**

**Chairpersons:** Mirjana Kocic (Serbia), Tatjana Nozica Radulovic (SR, B&H)

**Mirjana Kocic** (Serbia): Influence of psychological factors on outcomes following total knee and hip arthroplasty.

**Tatjana Nozica Radulovic** (SR, B&H): Stiff knee after arthroplasty

**Aleksandra Vukomanovic** (Serbia): Early rehabilitation and early functional assessment – look at our practice

**OP:** Rima Juozapavice (Lithuania): Experience of medical rehabilitation after hip and knee joint replacement in Palanga rehabilitation hospital 2009-2019 years comparison

**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:** Stefano Faraci (Italy): Comparison of intra-articular injections of hyaluronic acid and hyaluronic acid plus corticosteroids in the treatment of hip osteoarthritis: a pilot study

**OP:** Dubravka Bobek (Croatia): Improving balance and proprioception in patients suffering from hip and knee osteoarthritis with low body mass index

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13:00 - 14:30 **LIGHT LUNCH**

14:30 - 16:30 **SCIENTIFIC SESSION**

**ESPRM SISC Session in Musculoskeletal Disorders**

- **Part I**

**Chairpersons:** Fitnat Dincer (Turkey), Nikolaos Barotsis(Greece)

**Fitnat Dincer** (Turkey): What is new in hand osteoarthritis? Update in Physical and Rehabilitation Medicine on hand osteoarthritis

**Michael Quittan** (Austria): What is new in knee osteoarthritis? Update in Physical and Rehabilitation Medicine on knee osteoarthritis

**Nikolaos Barotsis** (Greece): What is new in hip osteoarthritis? Update in Physical and Rehabilitation Medicine on hip osteoarthritis

**OP:** Alena Altukhova (Russia): Functional symptoms of patella chondromalacia - a change in gait biomechanics

**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:** Omer Faruk Sendur (Turkey): The effect of trombosit rich plasma application on degenerated cartilage: in vitro experimental study

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16:30 - 17:00 **COFFEE BREAK**

17:00 - 19:00 **SCIENTIFIC SESSION**
Inflammatory Joint Diseases

Chairpersons: Nemanja Damjanov (Serbia), Fitnat Dincer (Turkey)

Nemanja Damjanov (Serbia): Update on the diagnosis and treatment of rheumatic diseases
Snezana Tomasevic Todorovic (Serbia): Pain mechanisms in rheumatoid arthritis
Bojana Stamenkovic (Serbia): Optimal treatment of psoriatic arthritis with biologics, the importance of multidisciplinary approach

OP: Sandra Burtica (Romania): Rehabilitation programs in patients with Ankylosing Spondylitis based on the presence of peripheral manifestations
OP: Andre Santos (Portugal): Non-pharmacological treatment efficacy review in ankylosing spondylitis – The use of physical agents and kinesiotherapy
OP: Marija Obradovic (Montenegro): The effects of Balneotherapy in patient with ankylosing spondylitis
OP: Jelena Jovanovic (Serbia): The influence of clinical, demographic and laboratory parameters on the quality of life in patients with rheumatoid arthritis
OP: Daumantas Bitinas (Lithuania): The effects of cryotherapy on pain, quality of life and shoulder joint function in rheumatoid arthritis

Atlantic 3

9:00 - 10:30 JOINT SESSION

Joint Session Mediterranean Forum of PRM
Balneotherapy in the Mediterranean area
Chairpersons: Calogero Foti (Italy), Gordana Stefanovski (SR, B&H)

Lazovic Milica (Serbia): Balneotherapy in Euro-Mediterranean countries
Stefano Masiero (Italy): Practice of PRM in Italian spas
Khalil Al Abbadi (Jordan): The use of balneotherapy-climatological-factors and resources at the Dead Sea in the treatment of psoriasis and psoriatic arthritis.

OP: Giacomo Magro (Italy): Wearable devices for rehabilitation in thermal setting - will they really improve the rehabilitative intervention.

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 SCIENTIFIC SESSION

ESPRM SISC Session in Extracorporeal Shock Wave Therapy
Chairpersons: Elena Ilieva (Bulgaria), Henk Stam (Netherlands)

Elena Ilieva (Bulgaria), Aleksandra Ilieva (Bulgaria): Evolution of extracorporeal shock wave treatment – from old paradigms to new concepts
Nicolaos Barotsis (Greece): Extracorporeal shock wave therapy: tendinopathies and tendon tears
Henk Stam (Netherlands): ESWT and spasticity: from experience to evidence

OP: Ileana Monica Borda (Romania): Effectiveness of extracorporeal shock wave therapy versus ultrasound therapy in patients with calcific supraspinatus tendinitis
OP: Lejla Manchev (North Macedonia): Effectiveness of shock wave treatment vs "conservative physiotherapy". Challenge for managing shoulder pain and dysfunction
OP: Radostina Simeonova (Bulgaria): Radial shock wave therapy with "intellect PRW lite" for calcifying tendinopathy of the shoulder, comparative effectiveness with conventional physical therapy
OP: Beatriz Entrambasaguas (Spain): Treatment with focal shock waves in chronic plantar fasciitis

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 SCIENTIFIC SESSION

**Thermal Infrared Imaging for Clinical Diagnosis and Follow up in PRM**
Chairpersons: Mirjana Kocic (Serbia), Gerold Ebenbichler (Austria)

Milica Lazovic (Serbia): Thermal Infrared Imaging as a Adjunct Diagnostic and Follow up Tool in PRM
Mirjana Kocic (Serbia): Our experience in the application of infrared thermography in the diagnosis and evaluation of the therapeutic effect of physical agents
Irena Dimitrijevic (Serbia): Clinical application of Thermal Infrared Imaging
Jovana Kojovic (Serbia): Provocation tests in Thermal Infrared Imaging

OP: Ibolya Tavaszi (Hungary): Simultaneous isometric force and thermo graphic measurements for supporting decision-making in post-stroke robotic therapy of patients with hemiparesis
OP: Congcong Huo (China): Task-related changes in brain activity in stroke patients as measured using functional near-infrared spectroscopy

16:30 - 17:00 COFFEE BREAK

17:00 - 19:00 SCIENTIFIC SESSION

**ESPRM SISC Session on Sports Affairs**
*New therapeutic in sports medicine and MSK*
Chairperson: Jean-François Kaux (Belgium)

Hervé Collado: Botulinum toxin in sports medicine
Vincent Gremeaux: PRP in knee OA
Jean-François Kaux (Belgium): PRP in tendinopathies
Jérémy Magalon (Belgium): Stem cells in MSK

OP: Tomas Gembeckas (Lithuania): Influence of virtual training system “riablo” on patients gait after knee anterior cruciate ligament reconstructive operation
OP: Dragana Dragičević-Cvjetković (RS, BH): Muscle strength recovery after ACL reconstruction in recreatives
OP: Silvia Silvestri (Italy): Back to Sport after knee ACL reconstruction: a reconditioning protocol

Mediterranean /Adriatic

9:00 - 10:30 SCIENTIFIC SESSION

ESPRM SISC Session for Pain and Disability
Part II
Chairpersons: Demoulin Christophe (Belgium), Emilija Dubljanin Raspopovic (Serbia)

Emilija Dubljanin Raspopovic (Serbia): Associations between early postoperative pain outcome measures and late functional outcomes in patients after knee arthroplasty
Demoulin Christophe (Belgium): Feasibility and effectiveness of a home-based somatosensory in patients with chronic musculoskeletal pain

OP: Afrooz Arefi (Iran): Evaluation the prevalence of carpal tunnel syndrome in pregnant women in Gorgan
OP: Maoui Rim (Tunisia): Contribution of the mesotherapy in the treatment of chronic neck pain
OP: Zaiga Kalnberza Ribule (Latvia): Coping strategies, disability and chronic postsurgical pain in rehabilitation
OP: Iskra Takeva (Bulgaria): Results of rehabilitation in infants with low-weight following liver transplantation
OP: Darija Granec (Croatia): How does postoperative pain and hematoma in total knee arthroplasty patients influence on knee range of motion during inpatient rehabilitation

10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 SCIENTIFIC SESSION

ESPRM SISC Session for Strengthening PRM in Health Systems
Chairpersons: Nicolas Christodoulou (Cyprus), Paolo Boldrini (Italy), Mauro Zampolini (Italy)

Gerold Stucki (Switzerland): Strengthening PRM in European Health Care Systems in response to WHO’s call for action Rehabilitation 2030
Daiana Popa (Romania): Rehabilitation Teamwork: a European experience
Pedro Cantista (Portugal): Organization of a Rehabilitation Hospital: lessons from practice
Roberto Casale (Italy): The societal burden of disabling chronic pain; a PRM perspective and practical issues
Mauro Zampolini (Italy): Narrative Medicine in PRM: impact on the organization of services
Paolo Boldrini (Italy): The role of Consensus Conferences in rehabilitation in the interaction between research and practice: Italian experiences

13:00 - 14:30 LIGHT LUNCH
14:30 - 16:30 SCIENTIFIC SESSION

**ESPRM SISC Session on Spasticity**
Chairpersons: Mauro Zampolini (Italy), Klemen Grabljevec (Slovenia)

Mauro Zampolini (Italy): Pathophysiology of spasticity
Frane Grubišić (Croatia): Minimum standards of care for patients with spasticity – searching for evidence
Martina Kovari (Czech Republic): Spasticity scales and their implementation to clinical practice
Klemen Grabljevec (Slovenia): Treatment of focal and generalized spasticity
Konstantina Petropoulou (Greece): Botulinum toxin in post stroke spasticity: When should therapy start?

OP: Nikola Babić, R. Čobeljić, L. Popović Maneski (Serbia): Methods to reduce the variability of the assessment of spasticity in patients with spinal cord injury
OP: Remco Timmermans (Netherlands): Long term post-stroke prevalence and treatment of disabling spasticity

16:30 - 17:00 COFFEE BREAK

17:00 - 19:00 SCIENTIFIC SESSION

**ESPRM SISC Session in Peripheral Nerve Disorders**
Chairpersons: Mark Lissens (Belgium), Marija Hrkovic (Serbia)

Mark Lissens (Belgium): Electrodiagnosis of nerve entrapment neuropathies
Marija Hrkovic (Serbia): Double crush syndrome – electrodiagnostic testing in the evaluation of peripheral nerve lesion
Primož Novak (Slovenia): Electrical stimulation in peripheral nerve lesions patients

OP: Pinar Borman (Turkey): The Kinesio Taping; local anesthetic/steroid injection and splinting in the treatment of patients with carpal tunnel syndrome: A clinical and electrophysiological study
OP: Anna Feher-Kiss (Hungary): Tactile plantar stimulation improves anticipatory postural adjustment in older adults with diabetic neuropathy

9:00 - 10:30 SCIENTIFIC SESSION

**Sports for the Disabled Persons**
Chairpersons: Mirsad Muftic (B&H), Rade Babovic (Serbia)

Rade Babovic (Serbia): The role of physical medicine and rehabilitation specialists in the rehabilitation of Paralympic athletes
Mirsad Muftic (B&H): The important of PRM physician for Paralympic athletes
Gordana Devecerski (Serbia): Pain treatment of musculoskeletal disorders

OP: Rezeda Bodrova (Russia): The opportunities of physical rehabilitation technologies with biofeedback of Paralympic athletes with spinal cord injury
OP: Zdeslav Milinkovic (Serbia): Spinal deformities in children and competitive sport
OP: Francesco Maracci (Italy): Cognitive-motor interference in the promotion of the sports gesture: controlled study of the effects of tDCS and cognitive training.

10:30 - 11:00 BREAK

11:00 - 13:00 SCIENTIFIC SESSION

ESPRM SISC Session for PRM in Children - Part II: Cerebral Palsy
Chairpersons: Karol Hornáček (Slovakia), Aleksandra Mikov (Serbia)

Rodolphe Bailly (France): Correlation between lower limb bone morphology, function, activity and participation in cerebral palsy: a systematic review
Karol Hornáček, Martina Mihalíková (Slovakia): Observing the effects of Vojta’s reflex locomotion and therapeutic riding in infants at high risk of cerebral palsy
Lidija Dimitrijevic (Serbia): Physiotherapy intervention for children with developmental motor disorders: is more really better?
Mirjana Boskovic, Dubravka Radulovic (Serbia): Aging and cerebral palsy
Aleksandra Mikov (Serbia): The role of humanoid robots in pediatric rehabilitation

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 SCIENTIFIC SESSION

Rehabilitation and Exercise
Chairpersons: Ljubica Konstantinovic (Serbia), Slavko Rogan (Switzerland)

Branka Mladenovic (Serbia): Rehabilitation after flexor tendon repair - principles, challenges, complications
Andjelka Pjanović, Ž. Milovanović, Lj. Konstantinović (Serbia): Functional assessment in neurological physiotherapy
Slavko Rogan (Switzerland): Mechanobiology – how mechanotherapy promotes tissue repair in rehabilitation medicine

OP: Cloé Dussault-Picard (Canada): Is adapted cycling training achievable in children with cerebral palsy with poor motor function?
OP: Ekaterina Makarova (Russia): Opportunities for balance function improvement in patients with osteoporotic vertebral fractures
OP: Serhii Kolisnyk (Ukraine): The algorithm of therapeutic exercises selection by microcirculation studies
OP: Luciana Mijačika (Croatia): Rehabilitation after surgical carpal tunnel decompression using multifunctional table for fist training rehabilitation

16:30 - 17:00 BREAK

17:00 - 19:00 SCIENTIFIC SESSION

**Occupational Therapist in Rehabilitation Team**
**Chairpersons:** Nela Ilic (Serbia), Martina Pellegrini (Italy)

- **Nela Ilic** (Serbia): Occupational therapy in stroke survivors
- **Emira Svraka** (B&H): Occupational therapist in rehabilitation team
- **Milan Kecman, D. Lukić, S. Pavlović, A. Vidaković** (Serbia): Occupational therapy functional assessment
- **Lukić Dragan, M. Kecman, T. Tomic Dimkić** (Serbia): Time extended repetitive task training compared to standard occupational training in subacute stroke - a pilot study

OP: Martina Pellegrini (Italy): Complex patient: occupational therapy and social reintegration
OP: Kateřina Rybářová (Czech Republic): Work of occupational therapists in prevocational assessment centers in the Czech Republic
OP: Marina Shurupova (Russia): Investigation of Virtual Reality training effects on mental health in stroke survivors
OP: Luís Carlos Sousa (Portugal): Functional outcome following anoxic brain injury

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**Danube**

9:00 - 10:30 ORAL PRESENTATIONS

**Rehab and Exercise**
**Chairpersons:** Nataša Kos (Slovenia), Aleksandra Jurisic Skevin (Serbia)

- **OP: Leonardo Pellicciari** (Italy): Which demographic and clinical factors could influence the functional status during an acute intensive rehabilitation treatment?
- **OP: Srboslav Radojichikj** (North Macedonia): Physical therapy of mild and moderate carpal tunnel syndrome: a literature review
- **OP: Dimitrios Varvarousis** (Greece): Effectiveness of intramuscular botulin toxin injection in the spastic lower extremities of CNS lesion patients using kinetics and kinematics gait analysis methods
- **OP: Jie Zhang** (China): Clinical application of low-intensity strength training for the improvement of balance in the elderly: a pilot study
- **OP: Estela Martin Castillo** (Spain): Therapeutic exercise: how to prescribe easily and quickly after arthroscopic knee in patients with arthrosis. Creation of a check list
- **OP: Milan Pešić** (Serbia): The integrative exercise
- **OP: Yuliia Vitrova** (Ukraine): Interrelation of the abdominal muscles tone and stomach syntropy
- **OP: Zorica Jelic** (Serbia): Effects of habilitation treatment on neuro developmental outcome of preterm infants
10:30 - 11:00 COFFEE BREAK

11:00 - 13:00 ORAL PRESENTATIONS

Musculoskeletal Disorders
Part II: Back Pain and Spine disorders
Chairpersons: Ksenija Boskovic (Serbia), Hrkovic Marija (Serbia)

OP: Tatjana Medic (Serbia): The outcome of treatment of patients with one level lumbar microdiscectomy through the Oswestry Disability Index - three months follow up.

OP: Thomas Kienbacher (Austria): ICF activity and participation changes along with biopsychosocial back pain rehabilitation.

OP: Mikhail Tsykunov (Russia): Efficiency of rehabilitation in children's posture disorders in computer optical topography.

OP: Bernardo Moreno (Portugal): The Importance of rehabilitation treatment in whiplash syndrome.

OP: Aleksandar Vojvodic (Serbia): Dynamics of muscles and nerves. Psoas muscle paradoxical key of the body?

OP: Yongsoon Yoon (South Korea): Comparison of the simultaneous heat and massage program and physical therapy in spinal pain.

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

OP: Vitalii Gubenko (Ukraine): Multiprofessional approach to the rehabilitation of patients with lumbosacral radiculopathy based on ICF in Ukraine.

OP: Aleksandar Pavlović (Serbia): Therapeutic effects of medicaments therapy and physical procedures in patients with chronic painful lumbar syndrome.

13:00 - 14:30 LIGHT LUNCH

14:30 - 16:30 ORAL PRESENTATIONS

Spasticity management
Chairpersons: Francois Constant Boyer (France), Srbislav Stevanovic (Serbia)

OP: Ioannis Drinis (Greece): Study of the incidence of regional spasticity on patients managing generalized spasticity with an intrathecal baclofen pump.

OP: Vitor Costa Pereira (Portugal): Intrathecal baclofen in hereditary spastic paraparesis: a review of literature.

OP: Cvetanka Gjerakaroska Savevska (North Macedonia): Effects of radial extracorporeal shock wave therapy on hand spasticity after stroke.

OP: Eduardo Rocha (Brazil): The phantom pain treatment using Inco botulinum toxin A - series of cases.

OP: Vladislav Voitenkov (Russia): Comparative efficacy of the different regimes of rehabilitation in children with palsy.

OP: Eduardo Rocha (Brazil): The efficacy and safety of phenol 5% neurolysis in patients with lower and upper limbs spasticity.
OP: Antonios Kontaxakis (Greece): Spinal cord injury and traumatic brain injury- Are the boundaries between the two concrete? Two cases
OP: Ágnes Csohány (Hungary): Spasticity management in the Children Rehabilitation Center

16:30 - 17:00 COFFEE BREAK

17:00 - 19:00 ORAL PRESENTATIONS

**Musculoskeletal Disorders in Children**

**Chairpersons:** Dejan Nikolic (Serbia), Mirjana Boskovic (Serbia)

OP: Johanne Mensah-Gourmel (France): Starting from the needs: a multidisciplinary approach to generate new solutions for children with disabilities
OP: Slavica Jandrić (B&H): Correlation between presence of kyphosis and duration of training in adolescents practicing swimming
OP: Gabriela Mirković (SR, B&H): Efficacy of seas therapy in active self-correction of patients with adolescent idiopathic scoliosis
OP: Irina Prilepina (Russia): Correction of early deviations in children’s development by methods of physical education
OP: Jasmina Milovanovic-Arsic (Serbia): The efficacy of “Schroth method of exercises” in the correction of the spinal deformity in patients with adolescent idiopathic scoliosis
OP: Jasna Stojkovic (Serbia): Correlation between body mass index and scoliosis in adolescence
OP: Xuan Zhou (China): Assessment of infants using the Alberta Infant Motor Scale in China
OP: Branko Vujkovic (Serbia): Burden of low back pain in children
OP: Katja Groleger Sršen (Slovenia): Efficiency of robotic guided training in children with unilateral impairment of upper limb
Pacific / Atlantic

8:30 - 10:30 JOINT SESSION

**Joint Session Serbian Academy of Science and Art**

*Novelties in treatment of diseases with movement disorders*

Chairperson: Vladimir Kostic (Serbia)

Vladimir Kostic (Serbia)
Dejan Popovic (Serbia)

10:30 - 11:00 BREAK

11:00 - 13:00 JOINT SESSION

**European Academy of Rehabilitation Medicine:**

*Lecture of the 2019 Award Winners*

Chairpersons: Henk Stam (Netherlands), Nicolas Christodoulou (Cyprus), Jorge Lains (Portugal),

European Academy of Rehabilitation Medicine:

*Lecture of the 2019 Award Winner*

Jorge Lains (Portugal): Leadership, Management and Communication Skills of the Rehabilitation Team

Nicolas Christodoulou (Cyprus): New Trends in PRM

13:00 - 14:00 CLOSING CEREMONY

Mediterranean / Adriatic

8:30 - 10:30 SCIENTIFIC SESSION

**ESPRM SISC Session in New Technologies and Robotics in Rehabilitation**

*Part II: Robotics and advanced technologies in Rehabilitation: experiences, perspectives and criticisms in ageing and children*

Chairpersons: Alessandro Giustini (Italy), Michael Quittan (Austria)

Alessandro Giustini (Italy): Role of Robotic and advanced technologies in Rehabilitation

Wim Janssen (Netherlands): European scenario of children rehabilitation needs: new technological perspectives

Michael Quittan (Austria): European scenario of ageing rehabilitation needs: new technological perspectives

Frane Grubišić (Croatia): Evidences in robotic rehabilitation treatments

OP: Marion Egger (Germany): VEMO: Innovative robotic technology for early mobilization in critical care patients
OP: Sanaz Pournajaf (Italy): Feasibility investigation of a novel exoskeleton-assisted gait rehabilitation in stroke patients: clinical and instrumental assessments

10:30 - 11:00 BREAK

11:00 - 13:00 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 Vasiieva (Russia): The efficacy of complex kinesiotherapy in weight loss and improving of carbohydrate metabolism in obesity patients
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

**Baltic/Aegen**

8:30 - 10:30 SCIENTIFIC SESSION

**ESPRM SISC Session in Stroke**

**Part IV: Specific topics in stroke Rehabilitation**

**Chairpersons:** Aleksandra Vidakovic (Serbia), Dina Khasanova (Russia)

Ljubica Nikcevic (Serbia): Functional outcome in patients with acute ischemic stroke following acute rehabilitation
Dina Khasanova (Russia): The role of post-stroke epilepsy for rehabilitation potential formation in patients following stroke

OP: Vladimir Belkin (Russia): Cognitive motor dissociation diagnosis in patients with chronic disorders of consciousness
OP: Natalie Sebkova (Czech Republic): Day neurorehabilitation program with constraint induced movement therapy for lower limb
OP: Hannan Osman (United Kingdom): Retrospective study of discharge destination status of post Stroke
OP: Anna Millere (Latvia): Body mass index influence on subacute stroke rehabilitation outcome
OP: Francesco Infarinato (Italy): Electroencephalographic markers toward the optimization of action observation treatment in stroke patients
OP: Anja Drljić (SR, B&H): Understanding and production of antonyms in patients with speech pathology after a stroke
OP: Linru Duan (China): Study on the effects of speech therapy combined with psychological support for dysarthria after stroke

10:30 - 11:00 BREAK

11:00 - 13:00 SCIENTIFIC SESSION

**Acupuncture and Complementary Therapies**

Chairpersons: Mirsad Muftic (B&H), Elena Ilieva (Bulgaria)

Zorica Brdareski (Serbia): The undergraduate information of KAM – is it important?
Mirsad Muftic (B&H): Music therapy in the treatment of cervical pain syndrome

OP: Gligor Mastilovic (Serbia): Analgesic effects of acupuncture on experimental pain
OP: Dejan Ilić (Serbia): The long term effects of acupuncture in the treatment of trigeminal neuralgia
OP: Jadrinka Glisic (Montenegro): Impact of mindfulness meditation and hydro-aroma therapy on parasympathetic tone in chronic inflammatory rheumatic patients as part of physical treatment conducted in Institute Igalo
OP: Klaudia Michsalčinova (Czech Republic): The Mojzisova method and visceral manipulation
OP: Laszlo Irsay (Romania): Are spirituality and faith important factors in rehabilitation?
OP: Vesna Pejovic (Serbia): Acupuncture in the treatment of respiratory and speech disorders after thyroid surgery

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**Danube**

8:30 - 10:00 ORAL PRESENTATIONS

**Ultrasound in PRM**

Chairpersons: Natasa Radosavljevic (Saudi Arabia), Sanja Milutinovic (Serbia)

OP: Sanja Milutinovic (Serbia): Ultrasound assessment in patients with painful heels
OP: Sergio Pinho (Portugal): Role of ultrasound guided procedures in pain management in knee osteoarthritis
OP: Aleksandar Vojvodic (Serbia): Psoas muscle, the paradoxical crossroad of muscles and the nerves?
OP: Young Jin Ko (South Korea): Early diagnosis of the patient with progressive bulbar palsy through nerve conduction study and electromyography
OP: Inah Kim (South Korea): A rare case of sciatic neuropathy associated with hypermetabolic lesion in positron emission tomography–computerized tomography
OP: Merve Denizli (Turkey): Evaluation of trigger points in myofascial pain syndrome in upper trapezius muscle by clinical findings, algometer and ultrasonography: Relationship with functional status and quality of life
OP: Zeynep Turan (Turkey): The effect of activation of thoracolumbar fascia on the thickness of abdominal muscles; an ultrasonographic study
10:00 - 10:30 ORAL PRESENTATIONS

**Miscellaneous**
OP: So Young Joo (South Korea): Comparison of pain-related changes in cerebral blood volume in burn patients with neuropathic pain
OP: Javier Medrano (Spain): The great burn: a challenge for the rehabilitation team in a post-acute care hospital

10:30 - 11:00 BREAK

11:00 - 13:00 ORAL PRESENTATIONS

**Rehabilitation after Limb Amputation**

**Chairpersons:** Helena Burger (Slovenia), Igor Simanic (Serbia)

OP: Doriane Pelzer (Belgium): Factors influencing outcomes of rehabilitation for patients with lower limb loss
OP: Sonja Ralevic (Serbia): Gender-related differences in dysvascular lower limb amputee patients
OP: Carolina Lourenco (Portugal): Botulinum toxin in amputees: effects on stump hyperhidrosis, residual limb pain and phantom limb pain – a review
OP: Andrej Bavec (Slovenia): Role of ultrasonography in management of residual limb pain
OP: Silvana Stojicic-Djulic (Serbia): Influence of physical rehabilitation on pain reduction in patients with peripheral artery occlusive disease
OP: Tamara Vukic (Croatia): Quality of life in patients with lower limb amputation
OP: Jemma Keeves (Australia): Psychosocial problems persist at two years in persons following traumatic lower limb amputation
OP: Marijana Levicanin (Serbia): The effects of timing on duration and outcome of prosthetic rehabilitation in lower-limb amputees

Sava

8:30 - 10:30 PUBLIC SESSION

**Round table with the Paralympic Committee Association of Serbia**

10:30 - 11:00 BREAK

11:00 - 13:00 PUBLIC SESSION

**Round table with the Association for Disabled Persons of Serbia**