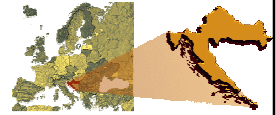


„CSPRM - UEMS PRM Section and Board agreement”

Zagreb, Croatia, June 18, 2010



statinfo and manpower



- 4.4 million inhabitants
- 56000 square kilometers
- GDP per capita - 15500 \$, 63% of EU average
- 16% of population > 65 years
- 16568 licensed and 12149 practising physicians
- 43 different specialties
- 350 licensed PRM specialists, 289 working in public health system, and 40 trainees
- 6,8 PRM/100.000 inhabitants
- 3000 PTs and OTs
- psychologists, speech therapists, social workers...



history and education

- 1874 - Croatian Medical Association
- 1911 first two sections - Surgery and Internal medicine
- 1947 - Section of Rheumatology, Physical Medicine and Balneoclimatology
- 1966 - divided into PRM Section and Rheumatology Section
- 1960 - PRM specialty was established in 1960
- 1957 – inpatient PRM unit in Varazdinske Toplice
- undergraduate education in PRM: 45 hours of training, at all of 4 university Medical Schools
- PRM specialty: 4 years of training in nationally approved training centres, with obligatory logbook and final examination
- new curriculum implementing the “Curriculum of Studies and Theoretical Knowledge for the European Board Diploma”

undergraduate PRM curriculum

- 1. hours of undergraduate training in PRM: 45
- Theoretical courses: (in hours)..... 15
- Practical sessions (in hours).....30

2.Content of the undergraduate training in PRM

Theoretical sessions:

- History, role and importance of PRM. Prevalence, diagnosis and evaluation of disability. Methods and organizing of rehabilitation, social aspects of disability – 2 hours
- Propedeutics and diseases of musculoskeletal system – 2 hours
- Planning of rehabilitation and rehabilitation interventions. Individuality of medicamentous and physical treatment. Use of electrotherapy, thermotherapy, phototherapy, cryotherapy, kinesiotherapy. Modulation of pain – 2 hours
- Diagnostics, treatment and rehabilitation in rheumatic inflammatory and degenerative diseases – 1 hour
- Rehabilitation of patients with amputation – 1 hour
- Rehabilitation of patients with spinal cord lesion – 1 hour
- Rehabilitation of patients with traumatic brain injury and children with cerebral palsy – 1 hour
- Rehabilitation of patients with trauma of musculoskeletal system or arthroplasty – 1 hour
- Rehabilitation / orthotic aids – orthoses and prostheses – 1 hour
- Balneology and thermo-mineral waters – 1 hour
- Rehabilitation of patients with cardio-pulmonary dysfunction – 1 hour
- Sport in disabled persons – 1 hour

Practical skills

- History taking and clinical evaluation of patients with emphasis on functional limitations (3)
- Developing of rehabilitation strategy for the patient (1)
- Communication skills with patients, family members and other members of rehabilitation team (2)
- VAS for pain, measurement of joints and spine range of motion, manual muscle test (4)
- Measurements in PRM and evaluation of outcome indicators in PRM – FIM, SF-36, Barthel's, WOMAC, HAQ, BASFI (3)

Practical exercises

- Use of kinesiotherapy, occupational therapy, hydrotherapy, electrotherapy, phototherapy, ultrasound, electro-stimulation, teamwork in rehabilitation
- Application of orthoses and prostheses
- Assessment of ambulation, self-care and use of aids following stroke
- Assessment of children with cerebral palsy
- Assessment of patient with spinal cord lesion
- Assessment of patient with brain injury
- Assessment of patient with acute and/or chronic rheumatic disease
- Gait and posture analysis (4)
- range of motion measurement: spine, shoulder, elbow, wrist, hip, knee, ankle (3)
- hand grip and strength (3)
- MMT (2)
- MMT for quadriceps, assessment of atrophy (3)
- measurement of leg circumference and leg length (4)
- assessment of swollen joint (4)
- assessment of joint pain on pressure (4)
- palpation of distal arteries (4)
- neurological tests: Lasague, reflexes (4)
- VAS (4)
- FIM, HAQ (2)
- propose rehabilitation diagnose: impairment, limitation, restriction (3)
- application of ultrasound, TENS, interference current, criotherapy (3)
- isometric and isotonic exercises (2)

PRM specialty training

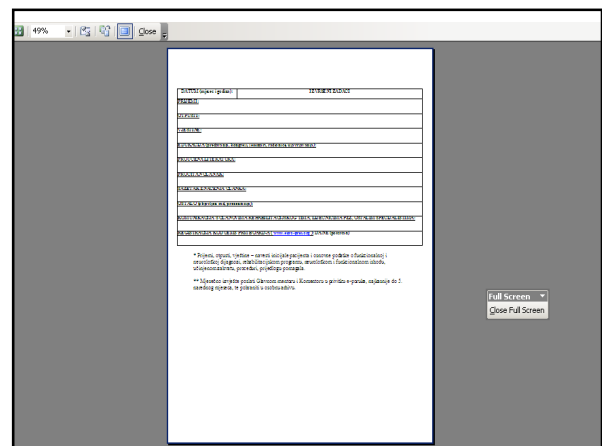
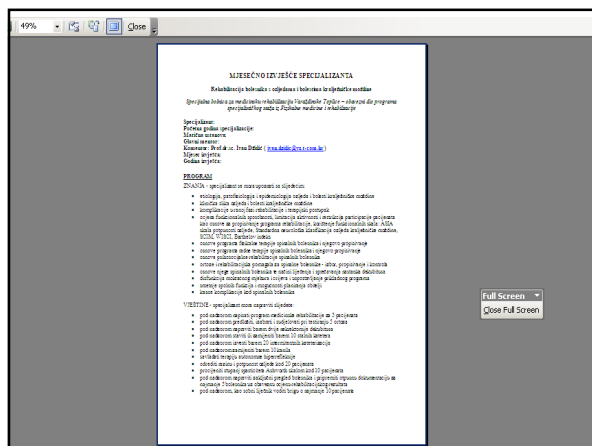
- 4 years or few months more
- nationally approved training centres
- logbook (with upgrades in Varazdinske Toplice)
- final examination
- "Curriculum of Studies and Theoretical Knowledge for the European Board Diploma" - extended

accreditation fields

- neurological rehabilitation
- rehabilitation of SCI patients
- paediatric neurological rehabilitation
- oncological rehabilitation
- cardiological rehabilitation
- rehabilitation in sports injuries
- rehabilitation of patients with amputees
- manual medicine

programme

- introductory basics in PRM and basic part (internal medicine, neurology, radiology, paediatrics and PRM) – **10 months**
- special parts: PRM and rheumatology, orthopaedic rehabilitation, surgery and rehabilitation, orthotics, prosthetics, amputations, internal medicine and rehabilitation, oncology and rehabilitation, PRM in nervous system pathology, sports rehabilitation, manual medicine – **32 months**
- postgraduate studies in PRM – **3 months**
- annual leave – **4 months**





balneo-climatology



- balneoclimatology - integral part of undergraduate studies and PRM specialty in Croatia
- 27 hot springs
- 17 spas, of which 10 evolved to special rehabilitation hospitals
- 100 wellsprings with mineral waters
- 26 peloid resorts
- 90 seaside thalassotherapy and 13 mountainous resorts
- the Institute for Balneo-climatology - established in 1949, and its balneo-laboratory has carried out 400 termomineral water analysis, produced many expert opinions, related books, symposia and congresses

medical rehabilitation



- 8500 stroke survivors, with 7000 in need of inpatient rehabilitation
- 100 traumatic SCI patients
- 700 brain injuries, with 10% in coma
- 1000 lower limb amputations
- prevalence of osteoarthritis is 11%
- prevalence of rheumatoid arthritis 1,5%
- CP, MS, Parkinsons disease, polyneuropathies, congenital anomalies, severe limb fractures, arthroplasty...

medical rehabilitation



- in approximately 1900 rehabilitation beds
- 0.42 per 1000 inhabitants
- in 10 Special Medical Rehabilitation Hospitals
- in PRM departments of teaching hospitals
- in General hospitals
- stroke and major trauma, especially TBI, SCI and post-amputee rehabilitation are divided among Special hospitals
- teaching hospitals also focus on rheumatology patients
- all facilities have outpatient departments, serving as consultants to other departments and in an acute-rehabilitation phase, and provide physical and kinesiotherapy to ambulatory patients
- CBR was organized as a project, now continued as a home physical therapy service
- special hospitals have 2000 more beds available on the market for private insurance schemes for balneotherapy and health tourism

Croatian Society of PRM

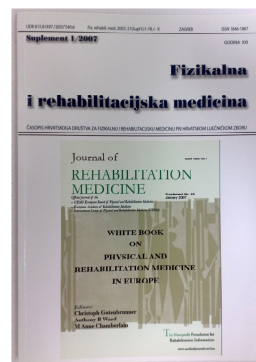


- Croatian Society of PRM – presidency Prof. Ivan Džidić
- Board – 14 members
- membership of 250 members, fee is 20 Euro
- communicate with members by regular mails, e-mails, and through our web site www.hdfrm.com
- regular meetings with lectures up to 4 times a year
- the general assembly is held every year
- elections every 4th year, as well as national congresses
- CSPRM is negotiating all vital aspects of the specialty with Croatian Institute for Health Insurance, Ministry of Health, Croatian Medical Chamber, University Medical Schools, PRM Clinics and Departments

Journal: "Fizikalna i rehabilitacijska medicina"

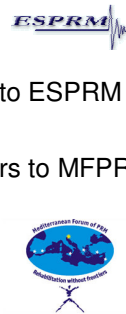
- since 1984
- Editors-in-Chief: Ivo Jajić (1984-1998), Ladislav Krapac (1999-2004), Tomislav Nemčić (2005.-2009) and Simeon Grazio (2009-)
- in 2007 published the localised version of the "White Book..."
- the journal is part of the European Physical and Rehabilitation Medicine Journal Network (EPRMJN)

Bijela knjiga fizikalne i rehabilitacijske medicine u Europi. Fiz Rehabil med 2007;21(Supl1):1-78



- [The European physical and rehabilitation medicine journal network: historical notes on national journals.](#)
Negri S, Ilieva E, Moslavac S, Zampolini M, Giustini A.
Eur J Phys Rehabil Med. 2010 Jun;46(2):291-6.

- CSPRM active member to ESPRM
- PRM specialists members to MFPRM



- 1996 - Prof Ante Dražančić



- 1997 - Prof Ana Bobinac – Georgievski



- 2002 - Dr Katarina Sekelj Kauzlarić



- 2007 - Dr Saša Moslavac

- 2011 -

- associated
- BC: 12
 - ALJINOVIĆ Ana
 - BURGIĆ Nijaz
 - ČURKOVIĆ Božidar
 - DŽIDIĆ Ivan
 - GRAZIO Simeon
 - GRGUREV Ivan
 - JAKŠIĆ Mirka
 - MARČIĆ Astrid
 - MOSLAVAC Saša
 - MUŽIĆ Vedrana
 - PUHOVSKI Maja
 - VLAK Tonko




CSPRM reimburses 300 euro to successful candidates
SMRH Varazdinske Toplice reimburses all successful candidates, including by equivalence
ESM, Syracuse – CSPRM reimburses travel costs to Croatian trainees

- trainers: 4
- training centres: 2
 - Clinical Hospital Center Zagreb, Clinic for rheumatic diseases and rehabilitation Zagreb (2009-2011)
 - Special Medical Rehabilitation Hospital, Varazdinske Toplice (2009-2014)

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Centres					

Educational Research	Austria	University Vienna, Austria Institute for Physical Medicine and Rehabilitation, Central Hospital of Wiener Neustadt	Wiener Neustadt	Dr. Angelika	Kärner-Nechels
Educational Research	Belgium	Clinical Affairs Department of Physical Medicine, University Hospital of Ghent	Gent	Prof. Guy	Vanderstraeten
Professional Practice	Belgium	University Centre Centre de Rééducation Fonctionnelle, UCL, Mont Godinne	Yvoir	Prof. Philippe	Hamon
eLearning	Belgium				
UEMS	Croatia	Special Medical Rehabilitation Hospital, Vardolinski Toplice	Vardolinski Toplice	Prof. Ivan	Čičak
News	Croatia	Clinic for Rheumatic Diseases and Rehabilitation, Clinical Hospital Center	Zagreb	Prof. Božidar	Čuhović
Courses	Croatia				
Congresses	Czech Republic	Department of Rehabilitation Medicine, 1st Medical Faculty, Charles University and General Teaching Hospital	Prague	Prof. Olga	Šestáková
Events					
Links					
Search					
Contact Us	Finland	Symposium Xplore Rehabilitation Center of Innate Association, Helsinki	Helsinki	Dr. Eija	Ahojärvi
	Finland	Department of Physical and Rehabilitation Medicine, University Hospital of Turku	Turku	Dr. Jukka	Salmenniemi
Private Area					
Your Profile	France	Centre Régional de Rééducation de Région Rhône-Alpes Fonctionnelle des Handicapés	Bois-Guillaume/Rouen	Prof. François	Bouvet-Blangard
Documentation					
List of Delegates	France	Seminar de l'ESF de Apprentissage/Conseil, Hôpital Cochin	Paris	Prof. Michel	Rozel
Welcome					
Terms & Conditions	France	CHU-Cité de la Neuro- logie de Rééducation Fonctionnelle - Niveau 10 Unité 39	Caen Cedex 9	Prof. François	Lamy
Logout					
	France	Seminar de Rééducation neurologique CHU	Dijon cedex	Prof. Dominique	Pavennec

 Internet

SYNTHETIC FORM FOR A BOARD CERTIFIED TRAINING CENTRE

CENTRE NAME: Special Medical Rehabilitation Hospital
ADDRESS: Trg Dubok 1, 42223 Vaučadoboka Toplica, Croatia
NAME OF THE UNIT RESPONSIBLE: Prof Ivan Džidić, MD, PhD
TEL.: ++385 42 630 000 FAX: ++385 42 630 225 E-MAIL: ivan.dzidic@vta.com.hr

• Main clinical activities of the centre:
(see the next areas of care depending on clinical workload and interest)

1. Rehabilitation of spinal cord injury patients
2. Rehabilitation of neurological patients (stroke, multiple sclerosis)
3. Rehabilitation of polytrauma and patients with orthopaedy

• Specific research interests of the centre:
(see the key words for research)

1. Neurogenic bladder, spinal cord injury
2. Rheumatic conditions, spinal cord injury
3. Functional outcomes: SCIM, spinal cord injury

• List five publications from the last five years which most represent the unit's research programme:

1. Džidić I, Moslavac S. Rehabilitacija nakon originalno traumatičnog lumbalnog i cervikalnog upaljenja. Rehabilitacija, vol 41, 3-4, 2007: 78-82.
2. Moslavac S, Moslavac A, Čigir R, Džidić I, Kejić J. Rheumatic Classification and Evidence Treatment in Spinal Cord Injury Patients in Two Cases. Abstracts Book, 43th ISCo, Annual Scientific Meeting, Rome, 2008.
3. Džidić I, Moslavac S. Onset of spinal cord injury: epidemiology. Fiz. Rehabil. med. 2006; 21(1-2): 16-16.
4. Moslavac S. Evaluation of neurogenic bladder in patients with spinal cord injury. Neuror. Croat. 2007; 16: 402-406.
5. Moslavac S, Džidić I, Kejić J. Neurogenic detrusor overactivity: comparison between complete and incomplete spinal cord injury patients. Neuror. Croat. 2008; 17: 504-506.
6. Moslavac S, Džidić I, Kejić J. Neurological Outcomes in Road Traffic Accidents with Spinal Cord Injury. Coll. Antrop. 2008; 32: 583-586.

• Please identify if necessary the conditions and means of exchange for trainee specialists (the number per month, the person to contact, etc.):
Two months training period, board and lodging possible.

Authorization to publish over Internet: YES ☒ NO ☐ Signature: Ivan Džidić

SYNTHETIC FORM FOR A BOARD CERTIFIED TRAINING CENTRE

CENTRE NAME: Clinical Hospital Center Zagreb, Clinic for Rheumatology, Rheumatology and Rehabilitation
ADDRESS: Križevačka 12, Zagreb 10000, Croatia
NAME OF THE UNIT RESPONSIBLE: Prof. Branka Cuković, MD, PhD
TEL.: ++385 1 2421039 FAX: ++385 1 2421597 E-MAIL: branka.cukovic@nc.hr

• Main clinical activities of the centre:
(see the next areas of care depending on clinical workload and interest)

1. Teaching center for medical students, postgraduate students in physical medicine and rehabilitation and in rheumatology
2. Teaching center for residents in PMR and rheumatology
3. Teaching center for physicians
4. Diagnostic and treatment of musculoskeletal diseases

• Specific research interests of the centre:
(see the key words for research)

1. Rheumatoid arthritis
2. Functional outcomes in Rheumatic diseases
3. Quantitative rheumatology
4. Neuropathological assessment of Rheumatic diseases

• List five publications from the last five years which most represent the centre's research programme:

1. Njakić T, Cuković B. Physical medicine and rehabilitation. Textbook: Hrabovc J et al. ISCo of and the surgery. Medicine and Health, Zagreb, 2005, pp.251-262.
2. Babić-Najdić B. Rehabilitation. Textbook: Đurković Z, et al. Gostary, C.T., Podgorica, Informatica d.o.o., Zagreb 2007.
3. Cuković B. In short-term efficacy of locally injected corticosteroids as an analgesic in the treatment of osteoarthritis. Clinical Rheumatology 2007;26:603-605.
4. Kolar T, Cuković B. Polyarthritis rheumatica and colon malignancy: case report. Clinical Rheumatology 2005;25:764-765.
5. Babić-Najdić B. Suppurative arthritis: treatment of osteoarthritis. Arthritis 2007;12:40-46.
6. Cuković B, Babić-Najdić B, Kolar T, Cuković B. Persistence of weekly diclofenac: a real-world study in Croatia. Clinical Rheumatology 2007;27:613-617.

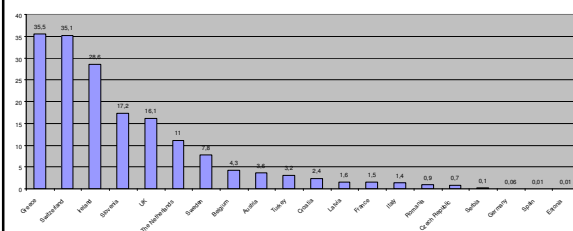
• Please identify if necessary the conditions and means of exchange for trainee specialists (the number per month, the person to contact, etc.):

Authorization to publish over Internet: YES ☒ NO ☐ Signature: Branka Cuković

accreditation – in progress

- PRM Programme for patients with Spinal Cord Injury (Džidić, Moslavac)

percentage of examinations / nr of PRM specialists and trainees

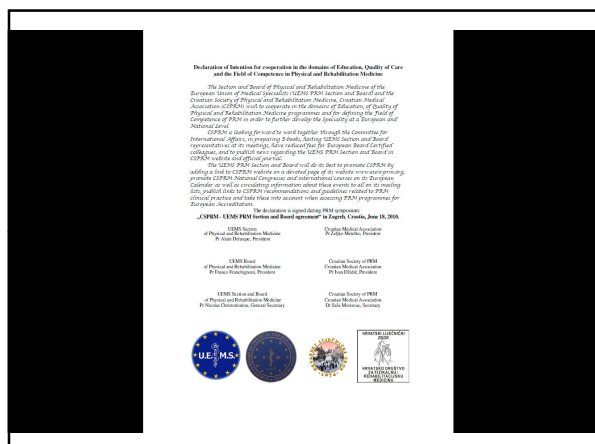


limitations


- research?
- PRM – rehabilitation medicine
- payment system for inpatient rehabilitation

Declaration of Intention for cooperation in the domains of Education, Quality of Care and the Field of Competence in Physical and Rehabilitation Medicine

- the domains of Education
- Quality of Physical and Rehabilitation Medicine programmes
- defining the Field of Competence of PRM
- **CSPRM** – help in preparing E-books, hosting UEMS Section and Board representatives at our meetings, have reduced fees for European Board Certified colleagues, and to publish news regarding the UEMS PRM Section and Board in CSPRM website and official journal, to hold an annual educational session – in English - free for European PRM trainees
- **UEMS PRM Section and Board** will do its best to promote CSPRM by adding a link to CSPRM website on a devoted page of its website www.euro-prm.org, promote CSPRM National Congresses and international courses on its European Calendar as well as circulating information about these events to all on its mailing lists, publish links to CSPRM recommendations and guidelines related to PRM clinical practice and take these into account when assessing PRM programmes for European Accreditation




Prof Alain Delarque



- Professor in PRM at Medecine Physique et de Readaptation CHU Timone, Marseille
- President of the UEMS PRM Section (former General Secretary)
- member to European Academy of Rehabilitation Medicine
- host to European School of Marseille
- link to editors of PRM journals
- person in charge for development of research in European Society of PRM (member to Executive Committee)

Prof Franco Franchignoni



- Professor in PRM in Istituto Scientifico di Riabilitazione, VERUNO
- President of the UEMS PRM Board
- member to European Academy of Rehabilitation Medicine
- author of Educational Resources on e-learning platform for trainees
- editor of the book: Assessment in Physical Medicine and Rehabilitation



Prof Nicolas Christodoulou



- Professor in PRM at School of Sciences of the European University Cyprus
- Secretary General of the UEMS PRM Section and Board
- Med. Dir. of the Limassol Centre of Physical and Rehabilitation Medicine
- President of the Cyprus Society of Physical & Rehabilitation Medicine
- President of the Mediterranean Forum of PRM
- President of the UEMS MJC on Sports Medicine
- CME/CPD – accreditation of scientific events



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Zagreb, Croatia, June 18, 2010

