



INTERNATIONAL SOCIETY OF PHYSICAL AND REHABILITATION MEDICINE

THE RESULT OF THE MERGER AND INTEGRATION OF IRMA AND IFPMR

NEWS & VIEWS – NOVEMBER 2009

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ISPRM World Congresses

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THE ISPRM WORLD CONGRESS IN ISTANBUL

First of all, we want to thank all the participants joined to the 5th World Congress of the ISPRM. We hope that you will all remember with our congress with good memories and never forget.

We believe that we organized a very successful event in Istanbul. We had 2812 participants from 82 different countries. We even had guests from Mongolia to Guano Islands.

We think that Organizing Committee prepared a great scientific program with a very strong content. Scientific Committee has organized many interesting courses, workshops and best practice sessions. We joined the efforts and expertise of top clinicians, scientists and health professionals from all around the world to create such a strong scientific program. We had more than 2000 abstracts submitted and our World Congress is accredited by ACCME and UEMS.

We worked very hard to organize the social programs and we hope that you've enjoyed the unique and varied attractions of the magical city Istanbul along with our traditional hospitality.

It was a great pleasure to host you in the timeless city, Istanbul, the Queen of the cities and we all hope to see you again.

Best Regards

Gulseren Akyuz

Secretary General of 5th World Congress of ISPRM

The Organising Committee of the 5th ISPRM World Congress





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THE ISPRM EDUCATIONAL COMMITTEE

Marta Imamura

Committee Members: William Micheo (Puerto Rico, USA), Nachum Soroker (Israel), Alain Delarque (France), Andrew Cole (Australia), Franco Franchignoni (Italy), Gerald E. Francisco (USA), David A. Cassius (USA), Bryan O' Young (USA), Henry L. Lew (USA), Simon Tang (Chinese Taipei), Gunes Yavuzer (Turkey), Farzan Torkan (Iran), Seong Woong Kang (Korea), Xiaojie Li (China), Jean Michel Viton (France), Juan Lacuague (Uruguay).

1. World Action Plan on Initial Education in PRM (WAPIE.PRM)

The first immediate action of the educational committee was the creation of the **World Action Plan on Initial Education in PRM (WAPIE.PRM)**. It was presented at the last Board of Governors meeting held in Seoul on June 14th, 2007 by Prof. Alain Delarque, President of the Physical and Rehabilitation Medicine Section, EUMS (www.euro-prm.org), as part of the report of the education committee. The "World Action Plan for Initial Education" (WAPIE.PRM) is originally an international expansion of the European work plan for initial education in Physical and Rehabilitation Medicine and has three main objectives:

1. to present handicap and the ICF to the medical trainees of all the medical schools during their undergraduate program,
2. to facilitate access to the best level of education in PRM for the PRM trainees during their postgraduate teaching and training programs,
3. to facilitate access to research and research activities to the PRM trainees.

The "World Action Plan for Initial Education in PRM" (WAPIE.PRM) and the role of the Regional and National Societies in its development was presented to the European delegates during the last meeting of the UEMS, PRM Section and Board in Bucharest, September 13-15, 2007 by Prof. Alain Delarque, and at the 68th American Academy of Physical Medicine and Rehabilitation in Boston, September 27th, 2007. Both follow-up meetings shared similar agenda and continued the discussion started in Seoul. It was presented also at the European Congress of Physical Medicine and Rehabilitation in Brugge, June 2008 and will be presented at the AMLAR 2008, in Punta del Este, Uruguay.

The "World Action Plan for Initial Education" (WAPIE.PRM) has been adopted in Bucharest, September 2007, by the delegates of the European Union of Medical Specialists (UEMS) Physical and Rehabilitation Medicine (PRM) Section and Board. European PRM Section and Board will spread the information to all European trainees. For research, the European PRM Section and Board activities in the field of "WAPIE.PRM" will have, during national and European PRM congresses, sessions dedicated to trainees (either free or with very low fees for trainees) with teaching programs helping trainees for research activities. For example French and Portuguese National PRM congresses will be free for trainees with devoted sessions on research. These national European PRM scientific societies (French, Portuguese) propose free registration to PRM trainees in 2008. Contact representatives from Europe for the ISPRM WAPIE taskforce are: Pr Alain Delarque (France); Pr Jean-Michel Viton (France) and Pr Franco Franchignoni (Italy).

During the meeting in Boston, it was discussed that the first objective should be expanded to a more general presentation of the specialty to the undergraduate students. The proposed objectives of the WAPIE.PRM are as follows:

1. create an undergraduate and postgraduate minimum curricula endorsed by ISPRM that could be used at an international level.
2. facilitate access to the best level of education in PRM for the PRM trainees during their postgraduate teaching and training programs.
3. facilitate access to research and research activities to the PRM trainees.

The Asian Oceania Society of Physical and Rehabilitation Medicine also discussed the educational issues during the 1st Asian Oceania Conference of Physical and Rehabilitation Medicine held on May 16-19th 2008 in Nanjing, China. The European Society of Physical and Rehabilitation Medicine held a special session on the WAPIE.PRM, in Brugge, Belgium, June, 2008. The Latin American National Societies also addressed the academic issues during their Regional meeting at AMLAR 2008, held in Punta Del Este, in Uruguay, October 28th and the Residents Meeting on November 30th, 2008. The residents from Latin American National Societies presented their residency program and worked on the design of a multicenter survey on cerebral



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palsy in Latin American countries as well as a dataset for ICF in this population. The members of the education committee have encouraged other National and Regional Societies to further discuss the role of their National and Regional Societies in the development of the WAPIE.PRM and update the committee with reports of the discussions held at the National and Regional levels.

The current activities of the "World Action Plan for Initial Education" (WAPIE.PRM) are:

1. Perform a survey to identify all existing Physical and Rehabilitation Medicine programs offered at medical schools, residency or postgraduate teaching and training programs. The final goal is to create an undergraduate and postgraduate minimum curricula endorsed by ISPRM that could be used at an international level. Prof. Gutenbrunner will discuss PRM in undergraduate education - basic principles and the Hanover model and The White Book on PRM in Europe - implications for postgraduate training. Samuel Meyer (Vice Chair, Education Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine, Residency Program Director, Department of Physical Medicine and Rehabilitation, Johns Hopkins University School of Medicine) is presenting the six-step approach to curriculum development for the teaching of Physical and Rehabilitation Medicine to medical students to be employed in some of the USA School of Medicine.

For 2008, the education committee was charged to produce the minimum curriculum to be used during the residency programs (trainees in PRM) for acquired brain injury – ABI and spinal cord injury - SCI.

All members of the education committee were asked to submit the curriculum used in their countries, or at a regional level. The committee received the curriculum on the two topics from:

- Australia: by Andrew Cole on July 8th 2008
- USA: by Gerard Francisco on May 10th 2008, by Bryan O'Young on August 28th 2008, Henry Lew on October 25th 2008
- Seoul: by Seong Woong Kang on October 16th 2008
- Europe: by Gunes Yavuzer on December 4th 2008
- China: by Xiaojie Li on December 5th 2008
- Japan: Masami Akai on December 22nd 2008
- Iran: by Farzan Torkan on December 27th 2008

Other well recognized PRM specialists sent the curriculum used at their Departments:

- Christina Moran de Britto (Residency Program Coordinator, University of São Paulo School of Medicine, São Paulo, Brazil).
- Ralph Buschbacher (Director of the Department of Physical Medicine and Rehabilitation of the University of Indiana, USA) on June 10th 2008
- Andrea Furlan (Toronto Rehabilitation Institute, Member of the Editorial Board of the Cochrane Back Review Group) on December 4th 2008
- Michael Y Lee (Professor and Chair, Residency Program Director and Medical Director of the Department of Physical Medicine and Rehabilitation of the University North Carolina School of Medicine – CH, USA) on December 11th 2008.

Most curricula outline the general concepts and topics that should be covered during the acquired brain injury and spinal cord injury rotations (USA, Brazil, China, Korea, Japan, and Iran). The most detailed and comprehensive curriculum is described by the Australasian Faculty of Rehabilitation Medicine – Spinal Injury & TBI Modules in terms of tasks, knowledge and suggested learning resources. The curricula used in the University of Toronto and in the United States also address skills and attitudes that should be obtained after the completion of both programs. The curriculum submitted by Prof. Michael Lee suggests the duration of 4 months for the SCI program. For advanced four-year training programs, six-month duration for both ABI and SCI are recommended.

Drafts of the minimum curriculum on **acquired brain injury - ABI** (appendix 1) and **spinal cord injury – SCI** (appendix 2) were published on the 2009 February issue of the N&V. The education committee welcomed suggestions and feedback from all ISPRM members via e-mail or to the Central Office. The committee is now working on the curricula for **Clinical Research Experience** (draft is presented as appendix 3), stroke, and musculoskeletal diseases.



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2. Facilitate access to the best level of education in PRM for the PRM trainees during their postgraduate teaching and training programs. A very important achievement was the free access to the e-version of the Journal of Rehabilitation Medicine (JRM) to all ISPRM individual members in good standing, which started in January 2008 and will include all previous issues of the Journal. In 2005 the impact factor of the JRM was 1.799, with total cite of 455, immediacy index: 0.169, articles: 59 and cited half-life: 2.8. In 2007, the impact factor was 1.95. The importance of this achievement is that it will encourage more Societies to follow the Italian model which will facilitate the access to the education material at the members-only area of the website. Our goal is to advertise the free access to the e-Journal of Rehabilitation Medicine to all ISPRM affiliated National Societies and encourage the young members of ISPRM to be involved as soon as possible as becoming members of their National Societies. Also, we have been working to involve the scientific chairperson of each National and Regional Society in the advertisement process.

Prof. Gunnar Grimby, Chief Editor of the "Journal of Rehabilitation Medicine", one of our official journals, has agreed in Seoul to publish a series of educational articles, filling the gap between textbooks and scientific papers, starting in 2008 (see item 6, page 7 below). Dr Stefano Negrini also agreed to publish an educational article for Europa Medicophysica (EMP). These articles can be downloaded free on the website, under the members-only session. Three national European PRM scientific societies will propose free registration to PRM trainees in 2008. The AAPM&R and the AAP already provides its residents members with a lower registration fee. A survey on Education programs, didactic resources and teaching strategies in PR&M was distributed during the academic discussion meeting in Seoul. The education committee has not received any replies from the survey until May 18th, 2009.

Clinical Updates on-line Course: The Education committee has also invited well known speakers to deliver on-line lectures on major topics in Physical and Rehabilitation Medicine:

September 23rd 2008, GMT -3, 4:00pm-5pm

Carpal Tunnel Syndrome and other Focal Neuropathies

Ralph Buschbacher, MD - Director of the Department of Physical Medicine and Rehabilitation of the University of Indiana, USA

September 30th 2008 GMT -3: 4pm-5pm

Upper Extremity Rehabilitation Techniques

Nathan D. Prahlow, MD - Department of Physical Medicine and Rehabilitation, Indiana University School of Medicine, USA.

All lectures are recorded and available at the website www.isprm.org

Five lectures from the Association of Academic Physiatrists AAP 2009 Annual Meeting to be held in Colorado Springs from February 24 to 28th 2009 were recorded to be broadcasted to all registered residents and available via video streaming at www.isprm.org

3. Facilitate access to research and research activities to the PRM trainees:

In order to train leaders in clinical research in Physical and Rehabilitation Medicine, the education committee is currently providing an intensive training course on Clinical Trials in 2008. The 2008 intensive Clinical Trials Course is offered by a special program developed by the Scholars in Clinical Science Program from Harvard Medical School and faculty members from Harvard Medical School. The course aims to provide the participants with a theoretical understanding of the issues involved in the design, conduct, analysis, interpretation and report of clinical trials. The participants are being trained to develop skills to scrutinize information, to critically analyze and carry out research, and to communicate effectively. Our goal is to train the highest number of physiatrists to perform good quality clinical research, to increase the chances of successful grant applications and publication in high impact peer-reviewed journals and develop large clinical research centers for multicenter trials.

Other similar clinical research courses are offered in Boston by the Harvard School of Public Health – Clinical Effectiveness program <http://www.hsph.harvard.edu/academics/clinical-effectiveness/overview/> (45 days – average of US\$ 15,000 – clinical effectiveness program or 1-year course (masters in public health in clinical effectiveness: US\$60,000) or by the Scholars in Clinical Science Program from Harvard Medical School (NIH-funded program); and also by the Department of Health Policy,



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Management and Evaluation at University of Toronto www.home.utoronto.ca (one year: CND\$14,252.82 to 18,452.82 for international applicants).

The Clinical Trials Course 2008 was offered by teleconference from March 13th to October 16th 2008, with 24 weekly lectures of two-hour duration followed by a live four-day intensive course which was held in São Paulo, Brazil on October 23rd to 26th 2008. Thirteen PRM doctors from Brazil, one from Korea and one from USA took the course. The Clinical Trials Course 2009 will occur from March 19th to October 25th. For the 2009 version, CME credits will be provided.

The members-only session of the www.isprm.org website is providing an on-line Journal Club to teach ISPRM members to critically appraise scientific publications on diagnostic testing, cohort studies, randomized controlled trials, systematic reviews, meta-analyses and clinical guidelines focused on evidence based information. The first activities were performed on September 2nd and 4th and will continue every first Tuesday of the month at GMT -3: 4pm-5:30pm. As by October 7th, there are 160 participants from all over the World registered for the Journal Club at journalclub@fmusp.org.br

September 2nd, 2008: Lecture "**Don't waste your precious time reading useless articles: tips on how to read the scientific literature**". Andrea D. Furlan, MD PhD. Toronto Rehabilitation Institute, Member of the Editorial Board of the Cochrane Back Review Group. GMT - 3: 16h00 to 17h30

September 4th, 2008: Lecture "**What makes a great paper? Tips to get your research published in high-impact journals**". Caren Solomon, Deputy Editor, New England Journal of Medicine September 4th 2008, GMT - 3: 18h30 to 21h00 (lecture from the Clinical Trials Course 2008, by invitation only)

October 7th, 2008: Preyde M. Effectiveness of massage therapy for subacute low-back pain: a randomized controlled trial. CMAJ. 2000 Jun 27;162(13):1815-20. Free download at <http://www.cmaj.ca/cgi/content/full/162/13/1815>. Presented by Daniel Pimentel, MD. Resident, Physical Medicine and Rehabilitation Program, Hospital das Clinicas, University of Sao Paulo School of Medicine.

November 4th, 2008: Slot KB, Berge E, Dorman P, et al. Impact of functional status at six months on long term survival in patients with ischaemic stroke: prospective cohort studies. Free download at: <http://www.bmj.com/cgi/content/full/336/7640/376>. Presented by Dr. Malcom Carvalho Botteon, Resident of Physical Medicine and Rehabilitation at the University of Sao Paulo School of Medicine.

April 7th, 2009: Perez C et al. Validity and reliability of the Spanish version of the DN4 (*Douleur Neuropathique 4 questions*) questionnaire for differential diagnosis of pain syndromes associated to a neuropathic or somatic component. Free download at: <http://www.hqlo.com/content/pdf/1477-7525-5-66.pdf>. Presented by Dr. Javier Mauricio Moreno, MD, Resident of Physical Medicine and Rehabilitation at the University del Valle, Cali – Colombia.

May 5th, 2009: Consensus Meeting for the guideline on therapeutic exercises. Are therapeutic exercises beneficial to patients with major depression, depression in the elderly, women with post partum depression and in Alzheimer Disease? Presented by Marta Imamura, Brazil.

As of May 5th, 2009, the JC will start a series of consensus meetings which will generate the Guidelines for the ISPRM Clinical Updates in Physical and Rehabilitation Medicine. The main goal is to provide the Education Committee with education materials such as the monographs to fill the gap between the textbooks and the specific papers published in the literature on the main topics of our specialty. These guidelines will aim not only the specialist but also other physicians in general and the public. For that reason the guidelines will try to answer structured relevant clinical questions of diseases that are most prevalent in the International arena. Answers to the clinical questions will be based on the scientific evidence of higher quality scientific papers (level of evidence A or B) and not only on expert's personal opinion (level D of scientific clinical evidence). In a second phase, we will use the AGREE instrument to evaluate the quality of the guidelines and submit for publication.

Calendar for the Journal Club in 2009: April 7, May 5, June 2, July 7, August 4, September 1, October 6, November 3, December 1. Published papers in the field of Physical and Rehabilitation Medicine will be presented and critically appraised by

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specialists and residents and comments will be posted in the ISPRM website. All journal club activities are recorded and available at the website www.isprm.org

In order to promote and facilitate the networking among the PRM residents, the ISPRM Education Committee also created the PRM Residents Network, a forum for continuous discussion and networking. As of May 18th 2009, there were already 106 residents registered. Multicenter studies, data collection and poll of different PRM topics are also available.

2. Create a list of ISPRM scientific publications: JRM, Journal of Disability and Rehabilitation, ISPRM website (www.isprm.org , members-only session).

Is already available at the members-only session of the www.isprm.org website.

3. Create a list of training opportunities in physical medicine and rehabilitation endorsed by ISPRM: members will be encouraged to submit information about training programs at their Universities to the Education Committee, which will evaluate them and provide the programs details within the website.

The European colleagues have already provided a list with 70 training sites recognized by the European PRM-Board. The committee is still working in the other regions: Asia Oceania, Middle East, North America and Latin America. The committee is currently working on the creation of the rules and regulations for a training site to be recognized by ISPRM.

4. Keep and update the calendar of scientific meetings around the world.

Werner will provide the calendar and keep it updated in the website.

5. Keep constant communication with the scientific chairpersons of each National Society and major Regional Societies affiliated to ISPRM.

Three European National Societies and AMLAR as of 2008 will provide a space in the scientific program of their Congresses for a discussion on the academic issues. The Asian Oceania Society of Physical and Rehabilitation Medicine also discussed the educational issues during the 1st Asian Oceania Conference of Physical and Rehabilitation Medicine held on May 16-19th 2008 in Nanjing, China. The Latin American National Societies also addressed the educational issues at the AMLAR 2008, held in Punta Del Este, Uruguay, on October 28th, 2008 at the Panel Discussion Session chaired by Juan Lacuague (Uruguay) Education in Rehabilitation: the WAPIE.PRM; and at the Residents Meeting held on October 30th, 2008.

We are also in contact with the scientific chairpersons to help supply us with potential names of speakers and authors of the monographs, perform the survey on education programs in their countries and be the contact person for the research capacity expansion plan. We are requesting that all ISPRM National Societies representatives as well as to the scientific chairpersons to advertise to their trainees about the JRM opportunity so that more young specialists can be involved with ISPRM.

6. Provide ISPRM members with four biannual comprehensive monographs on general topics in physical and rehabilitation medicine. Create a standardized format for publication of the monograph.

Initially this was thought to be the most difficult task, because, as discussed with Prof. Delisa in Seoul, there was no incentive for the authors to devote time and efforts to produce the monographs. During the meeting in Seoul, however, Prof. Gunnar Grimby, Chief Editor of the "Journal of Rehabilitation Medicine" has agreed to publish early an educational article, filling the gap between textbooks (sometimes not update information) and scientific papers (too specific). The first one will be published in 2009. This opportunity was created by Prof. Alain Delarque, current President of the Physical and Rehabilitation Medicine Section (EUMS). The idea is to provide the benefit of a publication in our official journal as the result of writing the monographs to ISPRM. For the ISPRM members those publications will contribute to provide the best level of education in the various major topics of our specialty and make them widely available (one of the means to achieve goal 2 of the WAPIE.PRM). The main goal of the monographs, as stated above is to produce an educational and scientific material that will fill the gap between the textbooks and the scientific papers. We named the monographs as Clinical Updates in Physical and Rehabilitation Medicine. The education committee has received eight monographs on Clinical Updates in Physical and Rehabilitation Medicine by October 15th 2007, and another monograph in January 2008. One of the eight monographs was already selected by the editorial board of the JRM and will be published on the 2009 January issue as an ISPRM Education Review. All other monographs were then submitted to the Publication Committee for evaluation and peer-review for the publication in the website. Six were selected and will be available at the website. These publications will contribute to provide the best level of education in the various major topics of our specialty. The next step will be to gather all clinical updates of a



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specific major topic as an ISPRM education and scientific committee publication, with a main editor for each major topic as an Updated Review and offer it free of charge to our members.

The ISPRM Education Committee will follow the suggested criteria for the submission of the ISPRM Educational Reviews to be submitted to the JRM:

Rules and Regulations for Publication of ISPRM Educational Reviews in JRM

By Grunner Grimby, Editor in Chief JRM:

“The Journal of Rehabilitation Medicine is prepared to print one Educational review submitted from ISPRM each year. The manuscripts will be sent for peer review and decision on publication is made by the Editor after appropriate revision. ISPRM can send more than one manuscript for consideration and discussion with the Editor, as the choice of the manuscript to be printed also will be made so that different topics will be covered. The length of the manuscript should not correspond to more than 9 printed pages, including reference list (which may be rather long if appropriate), tables and figures. There will be no page charge. The authors may keep the copyright if they want and sign a License to Publish with JRM. “Authors are also requested to submit six multiple choice questions with five alternatives, only one being the correct one. The Editors of JRM will also peer-review the multiple choice questions.

For the JRM, authors should follow the instruction for publication of review papers at <http://www.medicaljournals.se/jrm>. The publication (under the leadership of Walter Frontera) and the website committee (under the leadership of Nachum Soroker) were asked to provide the education committee with the rules, regulations and format for the publication of the monographs in the website.

7. Plan and develop the members-only area within the world wide website. The education committee will provide ideas for the scientific content and assist in adding or deleting linkages to the homepage. International representation within this task will help ensure global interest and will be the most important tool for education dissemination.

Members-only area of the website was professionally create in 2005 and offered ISPRM members in good standing with:

1. News: articles, publications and papers of general interest, with the photo ID, summary of the paper and in some cases the pdf of the paper. When it is not allowed (due to copyright problems with the journal) we added the link to the Journal.

2. A list of all the PRM scientific upcoming events with the link to the website of the event

3. Congress:

a) a gallery photo with all the photos of the 2005 Congress to be downloaded for free

b) Database with the pdfs of the powerpoint of the lectures presented at the 3rd World Congress, which were donated by the lecturer to ISPRM for free.

Members can download the pdf of the lectures for free

c) pdfs of the powerpoints of the workshops presented at the 2005 World Congress, also a kind donation of the lecturers

d) pdfs of the lectures presented at National Society Congress sponsored by ISPRM.

e) Book of abstracts of all the previous World Congresses (obs: because the amount of data is very heavy, we used to update the lectures every three months, so that members could access the website many times to download the files, it changed dynamically).

f) powerpoint slides from lectures delivered at the 4th World Congress of the ISPRM and National Congresses held in 2007.

4. Evidence based rehabilitation: it brings the updated summary and conclusions of over 100 systematic reviews from the Cochrane Collaboration database in the main topics of rehabilitation medicine; over ten other sources of information on Evidence Based Medicine, including a word and a pdf free version of the Consort statement and flow-chart for randomized controlled trials and of the TRENT statement for non-randomized controlled trials; access to more than 20 journals related to our field; access to some databases of scientific articles, including Pubmed, Embase and Lilacs. Our goal is to offer ISPRM members in good standing with the most updated scientific and educational information in the field of Physical and Rehabilitation Medicine.



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8. Maintain a close and integrative cooperative work with the education exchange committee chaired by Mark Young.

A common area under “Education” was developed in the website. The education exchange committee has contacted members from Russia who already affiliated to ISPRM and is looking forward exchange programs to enhance the Rehabilitation Medicine capacity in Russia.

9. Evaluate the concept and necessary criteria for the development of special interest groups of different topics in Physical and Rehabilitation Medicine.

Concept: The ISPRM Special Interest Groups (SIGs) will be introduced to facilitate ISPRM members with specific interests to discuss specific issues in depth. Special interest groups should be associated with the major clinical and educational areas of Physical and Rehabilitation Medicine. The Education Committee suggests the following SIGs:

1. East Meets West in PRM
2. Musculoskeletal rehabilitation and sports medicine
3. Neurologic rehabilitation
4. Pediatric rehabilitation
5. Electrodiagnostic and neuromuscular medicine
6. Medical rehabilitation
7. Academic leaders such as training program directors and department chairs.

Necessary criteria:

The ISPRM members in good standing can form a SIG. The application form should contain the name of the proposed SIG (as suggested above), the names and signatures of the founding members and a clear description of the objectives and of the proposed activities and the scientific focus of its membership. All SIG members should be members of the ISPRM. Any ISPRM member can join any SIG and may belong to more than one SIG.

SIGs must submit an annual report to the Secretary of ISPRM describing: meetings held within that year, publications, list of members and main accomplishments. SIGs may offer suggestions to the ISPRM Education Committee and to the Scientific Organizers of National and World Congresses. SIGs may elect their own officers using the principle of one vote per member. The first official SIG meetings will be scheduled at the 5th World Congress of the ISPRM to be held in Istanbul, Turkey, on June 13-17th. The dates and meeting rooms are already requested and will be informed in due time.

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JOURNAL OF REHABILITATION MEDICINE

(one of the two official journals of the ISPRM)

Special Issue 12, November 2009 (Volume 41)

Articles are accessible electronically for all ISPRM individual members (in good standing)

The application of robotics in the functional motor recovery of the paretic upper limb (Complete issue)

Lucia F. Lucca, Enrico Castelli and Walter G. Sannita

Foreword

Lucia F. Lucca, Enrico Castelli, Walter G. Sannita

Robotics in neuro-rehabilitation

Loris Pignolo

Bilateral robot therapy based on haptics and reinforcement learning: Feasibility study of a new concept for treatment of patients after stroke

Valentina Squeri, Maura Casadio, Elena Vergaro, Psiche Giannoni, Pietro Morasso, Vittorio Sanguineti

Robot-based rehabilitation of the upper limbs in multiple sclerosis: Feasibility and preliminary results

Ilaria Carpinella, Davide Cattaneo, Suha Abuarqub, Maurizio Ferrarin

Robot therapy for functional recovery of the upper limbs: A pilot study on patients after stroke

Federica Bovolenta, Milena Goldoni, Pierina Clerici, Maurizio Agosti, Marco Franceschini

Robot-mediated therapy for paretic upper limb of chronic patients following neurological injury

Federico Posteraro, Stefano Mazzoleni, Sara Aliboni, Benedetta Cesqui, Alessandro Battaglia, Paolo Dario, Silvestro Micera

Upper limb rehabilitation robotics after stroke: A perspective from the University of Padua, Italy

Stefano Masiero, Elena Carraro, Claudio Ferraro, Paolo Gallina, Aldo Rossi, Giulio Rosati

Kinematic and neurophysiological models: Future applications in neurorehabilitation

Michelangelo Bartolo, Romildo Don, Alberto Ranavolo, Mariano Serrao, Giorgio Sandrini

Robot-mediated and clinical scales evaluation after upper limb botulinum toxin type A injection in children with hemiplegia

Flaminia Frascarelli, Lorenzo Masia, Giuseppe Di Rosa, Maurizio Petrarca, Paolo Cappa, Enrico Castelli

Reach-to-grasp interjoint coordination for moving object in children with hemiplegia

Maurizio Petrarca, Giulia Zanelli, Fabrizio Patanè, Flaminia Frascarelli, Paolo Cappa, Enrico Castelli

Virtual reality and motor rehabilitation of the upper limb after stroke: A generation of progress?

Lucia Francesca Lucca

Robot-assisted rehabilitation of the paretic upper limb: Rationale of the ARAMIS project

Giuliano Dolce, Lucia Francesca Lucca, Loris Pignolo

The ARAMIS project: A concept robot and technical design

Lucio Colizzi, Antonio Lidonnici, Loris Pignolo

Exercises for paretic upper limb after stroke: A combined virtual-reality and telemedicine approach

Lamberto Piron, Andrea Turolla, Michela Agostini, Carla Zucconi, Feliciano Cortese, Mauro Zampolini, Mara Zannini, Mauro Dam, Laura Ventura, Michela Battauz, Paolo Tonin



INTERNATIONAL SOCIETY OF PHYSICAL AND REHABILITATION MEDICINE

THE RESULT OF THE MERGER AND INTEGRATION OF IRMA AND IFPMR

NEWS & VIEWS – NOVEMBER 2009

UPCOMING MEETINGS AND CONGRESSES

ISPRM World Congresses

- **6th Congress** **June 12 - 15, 2011** **San Juan, Puerto Rico**
- **7th Congress** **June 16 - 20, 2013** **Beijing, China**
- **8th Congress** **June 2015** **Berlin, Germany**

Congresses on:

- **Stroke** www.internationalstroke.org/s_content.php?id=fb2002-03-04-1020
- **Neurology** www.eurostroke.org/esc_main%20links.htm
- **Neurorehab** www.wfnr.co.uk/docs/events.htm
- **Spine** www.spine.org/calendar/nass_future_events.cfm
- **Brain Injury** www.internationalbrain.org/content.php?pages=congress
- **Osteoporosis** www.iofbonehealth.org/meetings-events.html



= congresses offering reduced registration fees for ISPRM members

2009

- **12th Asian Federation of Sports Medicine Congress**, 3-6 December, Amritsar, Punjab, India. Visit www.afsm2009.com
- **5th ASEAN Rehabilitation Medicine Association Congress**, 10-12 December, Bangkok, Thailand. Visit www.arma2009.org

2010

- **3rd International Football Medicine Conference**, 19-21 February, Sun City, South Afrika. Visit www.fifa.org
- **3rd Int. Congress on Gait & Mental Health (GAIT 2010)**, 26-28 February, Washington DC, USA, Visit www.kenes.com/gait
- **Eight World Congress on Brain Injury (IBIA)**, 10-14 March, Washington DC, USA. Visit www.internationalbrain.org
- **Clinical Osteoporosis 2010: An ISCD-NOF Symposium** March 10-13. San Antonio, Texas, USA Visit www.clinicalosteoporosis.org - Contact info@clinicalosteoporosis.org
- **World Congress of Internal Medicine**, 20-25 March, Melbourne, Australia. Info follows.
- **18th Annual Scientific Meeting of the Australasian Faculty of Rehabilitation Medicine**, 20-25 March, Melbourne, Victoria. Contact: afrm@racp.edu.au
- **6th World Congress for Neurorehabilitation**, 21-24 March, Vienna, Austria. Contact: traceymole@wfnr.co.uk
- **1st Baltic & North Sea Conference on PRM; "Reclaim Function!"**, 14-16 April 2010, Stockholm, Sweden

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Contact: www.bncprm2010.org

2nd Asia-Oceanian Conference on Physical and Rehabilitation Medicine, April 29 - 2 May Taipei, Taiwan, Visit: www.aocprm2010.com. Contact: aocprm2010@knaiintl.com.tw



- **SAS10 – Int. Society for the Advancement of Spine Surgery:** April 27 - 30, 2010. New Orleans, LA USA. Visit www.spinearthroplasty.org
- **World Congress on Osteoporosis,** 5-8 May, Venice, Italy, Visit www.iofbonehealth.org

17th European Congress on Physical Medicine & Rehabilitation, 23 - 27 May 2010, Venice, Italy. Contact: alessandro.giustini@ntc.it



- **7th World Conference, International Society for Gerontotechnology,** 27-30 May, Vancouver, Canada. Visit www.sfu.ca/grc/isg2010
- **37th World Congress of the International Society of Medical Hydrology,** 23-26 June, Paris, France. Visit www.ismh2010.org

XXIV Congress of the Latin American Medical Association of Rehabilitation – AMLAR. Includes the XII meeting of the Latin-American Society of Paraplegia and the XXV Congress of the Colombian Association of Physical Medicine and Rehabilitation. August 25-28, Hilton Convention Center, Cartagena, Colombia. Contact: Dr. Jorge E Gutierrez jegutier@gmail.com, Visit: <http://amlar2010.org>



- **13th World Congress on Pain,** 29 August-3 September, Montreal, Canada. Visit www.iasp-pain.org

8th Mediterranean Congress of Physical and Rehabilitation Medicine, September 29 to October 2, Limassol, Cyprus. Hosting the ISPRM Interim Board of Governors meeting. Contact Congress president: Nicolas Christodoulou. chrisfam@logosnet.cy.net - visit <http://www.medcongress.prm10.org>



- **2nd World Parkinson Congress,** 28 September – October 1, Glasgow, Scotland. Visit www.worldpdcongress.org
- **The Best of Both World-Rehabilitation 2010-Mind & Body:** 6-8 October, Hilton on the Park, Melbourne, Australia. Visit: www.dconferences.com.au/rehab2010
- **7th World Stroke Congress,** 13-16 October, Seoul, Korea. Visit www.kenes.com/stroke2010
- **National Congress of the French PM&R Society - SOFMER,** 13-16 October, Marseille. Visit: www.sofmer.com
- **71st Annual Meeting of the AAPM&R,** 3-7 November, Seattle, Washington, USA. Visit www.apmr.org

2011

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- 72nd Annual Assembly of the AAPM&R, 17-20 November, Orlando, Florida, USA. Website: www.aapmr.org

6th ISPRM World Congress, June, 12 - 15, 2011, San Juan, Puerto Rico

2012

- **World Congress for Neurorehabilitation**, 15 -19 May, Melbourne, Australia. Info follows.
- **3rd Conference of the Asian Oceania Society of PRM (AOSPRM)**, 17-19 May, Bali, Indonesia. Contact: aosprmbali@pharma-pro.com
- **Spineweek**, Third Combined Congress of the Different Spine Societies, May 27- June 1, Rai Amsterdam, The Netherlands. Info congresses@medicongress.com

2013

7th ISPRM World Congress, June 16 – 20, 2013, Beijing, China

2015

8th ISPRM World Congress, June 2015, Berlin, Germany