



14th ISPRM World Congress and 53rd AAP Annual Meeting

Connecting People, Changing the World



PRELIMINARY PROGRAM  REGISTER NOW TO SAVE AT WWW.ISPRM2020.COM

THANK YOU TO OUR CO-HOSTS!



Join Us for An Unforgettable Experience

ISPRM 2020 is the premier event for leaders and rising stars of physiatry and rehabilitation — around the world. Share, discover and connect at this joint Association of Academic Physiatrists (AAP) Annual Meeting and International Society of Physical & Rehabilitation Medicine (ISPRM) World Congress.

The Educational & Social Event of the Year

If there's any event to attend next year, this is it. With over 3,000 attendees, 1,500 poster presentations, 175 educational sessions, 5 signature networking events and 75 exhibitors, you can discover groundbreaking science and career-growth at every step of your ISPRM 2020 experience.

Get Your Best Rate

Become a member of the AAP and register by December 10, 2019 to enjoy significantly reduced registration rates. Join our community at www.physiatry.org/join or renew at www.physiatry.org/renew.

Apply for Your Visa Early!

If you need a visa to travel to the United States, we recommend you apply as early as possible, at least four months before departure. International attendees can find a letter of invitation, important information and links for your visa and/or passport, and other resources at www.physiatry.org/International.

Get Social with our Global Community

Meet peers and leaders that you can connect with face-to-face, hear from speakers and presenters, exchange diverse insights and opinions, and stay on top of the event's latest news using #ISPRM2020, our official event hashtag.

Receive ISPRM 2020 Text Updates! Get the most important deadlines and updates for our big event delivered to your mobile phone.

Text ISPRM2020 to 31996 to sign up. We promise not to spam you or send more than 2 messages a month!



Register Now

- Visit physiatry.org/Reg2020
- Mail your check (in US dollars) with the forms in the back of this program
- Call +1 (410) 654-1000 (credit card payments only)

REGISTER BY
DECEMBER 10, 2019
TO SAVE!

Connecting People, Changing the World

On behalf of the Association of Academic Physiatrists (AAP) and International Society of Physical & Rehabilitation Medicine (ISPRM) organizing committees, it is our pleasure to invite you to the international physiatry event of the year — ISPRM 2020 in Orlando, Florida, USA!

You will, of course, discover the latest in education, clinical techniques, research, technology and more. Yet, it is the 'people' — the physiatrists, educators, mentors, researchers, patient advocates and achievers from over 50 countries — who will make this a truly historic event. Together, we can and will change the world.

The AAP represents over 1,900 physical medicine and rehabilitation (PM&R) professionals dedicated to advancing academic practice, research and education. The ISPRM serves as the global agency for our specialty, representing 67 countries and more than 35,000 members worldwide.

These two influential societies have created an out-of-this-world conference, and you have the golden opportunity to experience it. Do you want ...

- ... to affect change at your institution or practice?
- ... to provide the highest quality care to your patients?
- ... to become a more effective educator, scientist and leader?
- ... to hear firsthand about research that is shaping the future?
- ... to lay the foundation for your dream career?
- ... to meet people who will help you achieve your goals?
- ... to know how our specialty will grow for many years to come?

Dedicate this time to yourself and you will achieve all of that and more. We promise you that ISPRM 2020 will be dynamic, stimulating and forward-thinking. Join us and be a part of lively conversations, passion-fueled sessions and networking events. Most importantly, join our global community of physiatrists and rehabilitation experts and choose to engage, challenge and learn with the vision to change the world!

Until We Meet in Orlando,

John Chae, MD, ME
Congress President,
ISPRM 2020

Chair and Professor of PM&R,
Case Western Reserve
University

Director, MetroHealth
Rehabilitation Institute

Gerard Francisco, MD
Chair, ISPRM Congress
Scientific Committee

Chair and Professor of PM&R,
McGovern Medical School at
UT Health

Chief Medical Officer, TIRR
Memorial Hermann Hospital

Mooyeon Oh-Park, MD, MS
Chair, AAP Program
Committee

SVP & Chief Medical Officer,
Burke Rehabilitation Hospital

Professor of Rehabilitation
Medicine, Albert Einstein
College of Medicine/
Montefiore

Welcome to Orlando —

The City Beautiful



Orlando is the most visited destination in the United States — and for good reason! With sunny year-round weather, award-winning restaurants and chefs at every turn, and world-class entertainment, you'll have an unforgettable time with your AAP and ISPRM families. Here are some of the unique thrills you can experience:

- **AS THE THEME PARK CAPITAL OF THE WORLD®**, immerse yourself in endless adventures at Walt Disney World® Resort, Universal Orlando Resort™, SeaWorld® Orlando, LEGOLAND® Florida Resort and more.
- **FILL UP ON THE EXPANSIVE DINING OPTIONS**, where you can dine with celebrity chefs that bring global cuisines and farm-to-table dishes to life.
- **SOAK IN THE SUN** with airboat tours, ziplining, golfing, hiking, scuba diving, kayaking and much more.
- **STROLL THROUGH A VIBRANT ENTERTAINMENT DISTRICT** where live music, high-energy dance clubs, sleek lounges, side-splitting comedy and more never ends.
- **THE ARTS COME ALIVE IN ORLANDO!** From the Dr. Phillips Center for Performing Arts to the Orlando Museum of Art and Cornell Fine Arts Museum, prepare to be awed.



BUILD YOUR TRIP AT
www.VisitOrlando.com!

 **Airport Code: MCO**

 **Currency: \$ USD**

 **Time Zone: EST**

ISPRM 2020 offers
unbiased, actionable
insights on the trends and
tools that are shaping our
specialty around the globe.
Take part in educational
sessions, lively networking
events and spontaneous
meet-and-greets.



Schedule at a Glance

WEDNESDAY, MARCH 4

Pre-Conference Workshops

THURSDAY, MARCH 5

Pre-Conference Workshops

Fellowship & Job Fair

FRIDAY, MARCH 6

Exhibit Hall Open

Plenary Speakers

Educational Sessions

Poster Gallery Reception

Opening Ceremony & Welcome Reception

SATURDAY, MARCH 7

Rehab 5K Run, Walk & Roll

Exhibit Hall Open

Educational Sessions

Plenary Speakers

Complimentary Lunch in the Exhibit Hall

ISPRM Assembly of Members

Poster Gallery Reception

Resident & Fellow Networking Night

SUNDAY, MARCH 8

Exhibit Hall Open

AAP Annual Member Caucus & Awards

Educational Sessions

Plenary Speakers

ISPRM Assembly of Delegates

Poster Gallery Reception

ISPRM 2020 Signature Networking Event

MONDAY, MARCH 9

Educational Sessions

Sidney Licht Lecture & Closing Ceremony

RMSTP Paper Presentations

Visit www.isprm2020.com for the most
up-to-date schedule and news!



67 Years of Mentorship, Leadership and Discovery

The MetroHealth Rehabilitation Institute in Cleveland was one of the first facilities in the nation dedicated solely to rehabilitation. Our institution continues to lead the way in rehabilitation research and education, while improving care for the most complex and disabling injuries and illnesses.

- Neurorehabilitation – one of only 14 centers in the nation designated as a Model System Center for spinal cord injury care.
- Research – No. 2 in the nation for National Institutes of Health funding for rehabilitation research.
- Innovation – new technology that uses electrical stimulation to improve arm and leg function after stroke and spinal cord injury.
- Education – residency training program and fellowships in brain injury, spinal cord injury and pain medicine.



John Chae, MD
Co-Director, MetroHealth Rehabilitation Institute
Past President, Association of Academic Physiatrists
Member, National Academy of Medicine



P. Hunter Peckham, PhD
Co-Director, MetroHealth Rehabilitation Institute
Member, National Academy of Engineering

To learn more about the MetroHealth Rehabilitation Institute, visit metrohealth.org/rehab or call 216-778-3776.



Plenary Speakers

These thought leaders bring big ideas that can influence your research, education, practice and career.



VICTOR DZAU, MD

SATURDAY, MARCH 7, 2020, 9:15AM-9:45AM

- President of the National Academy of Medicine
- Professor of Medicine and Pathology at Duke University School of Medicine

DeLisa Lecture



TO BE REVEALED IN OCTOBER 2019!

MONDAY, MARCH 9, 2020, 11:30AM-1:00PM

The Sidney Licht Lectureship Award is given annually to a physiatrist that has made consistent contributions to the advancement of international physical and rehabilitation medicine. Stay tuned to find out who will deliver this year's prestigious lecture.

Sidney Licht Lecture



PETER AGRE, MD

SATURDAY, MARCH 7, 2020, 9:45AM-10:15AM

- Bloomberg Distinguished Professor at Johns Hopkins University
- Director of Johns Hopkins Malaria Research Institute
- 2003 Nobel Prize in Chemistry

Aquaporin Water Channels: From Atomic Structure to Clinical Medicine



QUINN CAPERS, MD

FRIDAY, MARCH 6, 2020, 9:45AM-10:15AM

- Interventional Cardiologist, Professor of Medicine and Vice Dean of Faculty at The Ohio State University

Implicit Bias



ALARCOS CIEZA, PHD, MPH

SUNDAY, MARCH 8, 2020, 1:30PM-2:00PM

- Coordinator of Blindness and Deafness Prevention, Disability and Rehabilitation at the World Health Organization (WHO)

The WHO is Listening: How Can We Bring 'Health Systems Thinking' to the Minds & Actions of Rehabilitation Practitioners?

cont.



DER-SHENG HAN, MD

SATURDAY, MARCH 7, 2020, 2:00PM-2:30PM

- Medical Director at the National Taiwan University Hospital Beihu Branch
- Associate Professor at the National Taiwan University College of Medicine

Sarcopenia: Diagnosis, Comorbidities & Management



AKIKO ITO, PHD

SUNDAY, MARCH 8, 2020, 8:30AM-9:00AM

- Chief of Secretariat for the Convention on the Rights of Persons with Disabilities at the United Nations

UN Focal Point on Disability



CARLOTTE KIEKENS, MD

SUNDAY, MARCH 8, 2020, 2:00PM-2:30PM

- Field Coordinator for Cochrane Rehabilitation
- Head of Physical & Rehabilitation Medicine Clinic at the University Hospitals Leuven, Belgium

RehabUtopia: Strengthening Rehabilitation Services through Patient-Centered Organization & Evidence Implementation



KAREN NAKAMURA, PHD

SATURDAY, MARCH 7, 2020, 1:30PM-2:00PM

- Distinguished Chair of Disability Studies and Professor of Anthropology at the University of California, Berkeley

Disability and the Promise of Technology – Eugenics, Prosthetics, and Artificial Intelligence in Japan and the United States



THOMAS RANDO, MD, PHD

FRIDAY, MARCH 6, 2020, 9:15AM-9:45AM

- Professor of Neurology & Neurological Studies and Deputy Director of the Stanford Center on Longevity at Stanford University
- Director of Rehabilitation Research & the Development Center of Excellence at the Palo Alto VA Medical Center

Regenerative Rehabilitation: Physical Activity & Stem Cell Therapeutics for the Treatment of Muscle Damage



AMY WAGNER, MD

FRIDAY, MARCH 6, 2020, 1:30PM-2:00PM

- Professor, Vice Chair for Faculty Academic Development, Director of Translational Research and Director of the Brain Injury Medicine Fellowship at the University of Pittsburgh

Exploring Precision Medicine Opportunities Using the Rehabilomics Research Model: A TBI Exemplar

THE NAME IS NEW,
THE OUTCOMES
REMAIN JUST AS GREAT.



CRAIG H. NEILSEN REHABILITATION HOSPITAL IS EXCITED TO WELCOME YOU TO THE ISPRM CONFERENCE IN ORLANDO, FL, AND JUST AS EXCITED TO SHARE THE LATEST DEVELOPMENTS OF THE NEW HOSPITAL, OPENING SPRING 2020.

The Nielsen Rehabilitation Hospital will be the preeminent destination in the mountain west for patients recovering from and adjusting to life-altering injuries and conditions. This advanced facility will provide a healing environment designed to facilitate and improve quality of life for patients after they return home. The new building will provide state-of-the-art rehabilitation services, including:

- access to world-renowned physicians and clinicians
- an invigorating outdoor therapy terrace and smart technology patient rooms
- a spacious, welcoming therapy gym with features unique to rehabilitation
- inpatient beds with expansive views of the picturesque Salt Lake Valley



For more information on our services, visit:

uofuhealth.org/neilsen or call 801.581.3639

Who will you meet at ISPRM 2020?

Signature Networking Events

Opening Ceremony & President's Welcome Reception

FRIDAY, MARCH 7, 2020, 7:00PM - 9:00PM
ROSEN SHINGLE CREEK

Kick off ISPRM 2020 at our opening ceremony and welcome reception, hosted by AAP President Adam Stein, MD and sponsor Northwell Health! Experience live entertainment (to be revealed) then mix and mingle with peers and mentors around the globe as you enjoy hors d'oeuvres, cocktails and exhibitors.

Signature Networking Event **ADDITIONAL FEE!**

SUNDAY, MARCH 8, 2020, 7:00PM - 10:00PM
SEAWORLD ORLANDO, 7007 SEA WORLD DR., ORLANDO, FL 32821
\$130 PER PERSON

Every year, the ISPRM World Congress features a phenomenal night out – and this year's event will not disappoint. Join us and SeaWorld's Animal Ambassadors for a reception and dinner overlooking a lushly landscaped garden, followed by a private Sea Lion and Otter Show. Take in the sights and informal connection with your fellow attendees! *Dress casually and bring comfortable shoes to walk from dinner to the show.*

Resident & Fellow Networking Night

SATURDAY, MARCH 7, 2020, 7:00PM-8:30PM
TOPGOLF, 9295 UNIVERSAL BLVD., ORLANDO, FL 32819

Kick back and have a few laughs as you make lifelong connections with your PM&R peers. Enjoy food, drinks and friendly competition as you show off your swing at Topgolf Orlando. Thank you to our event sponsor Allergan for their longstanding support!



Other Opportunities to Connect & Collaborate

This is a unique opportunity to meet physiatry and rehabilitation experts from over 50 countries – and we're helping you create those career-building connections with these organized events.



Fellowship & Job Fair

THURSDAY, MARCH 5, 2020, 5:30PM - 7:00PM

Looking for a new challenge or weighing different career paths? Speak to more than 35 institutions recruiting for a variety of open positions, including fellowships!



Poster Gallery Receptions

FRIDAY, MARCH 6, 2020, 6:00PM-7:00PM
SATURDAY, MARCH 7, 2020, 6:00PM-7:00PM
SUNDAY, MARCH 8, 2020, 6:00PM-7:00PM

Discover cutting-edge research studies and case reports as you interact with PM&R residents and leading researchers. With over 1,500 posters being presented, you are sure to walk away with new ideas and collaborations! Refreshments will be served.



Town Halls & Round Table Discussions

Build connections, share ideas and get insights into challenges that lie ahead in our informal town halls and round table discussions!



Exhibit Hall Refreshments & Lunch

Get to know institutions and organizations that are offering innovative programs, services and products for physiatry and rehabilitation. From all-day beverage services to a signature lunch, we're making it easy for you to improve education and patient care. Join us for complimentary lunch on Saturday, March 7, 2020!

Breakfast & Lunch Symposiums

Fill your stomach and your mind at one of our sponsored breakfast or lunch symposiums! Topics and times will be announced. Space is limited, so keep an eye out for opportunities to reserve your spot.

Pre-Conference Workshops

Come early and dive deep to master an important skill. Plus, get bonus networking time with your peers in an intimate setting.



ADDITIONAL FEES!

Add any workshop to your conference registration to reserve your seat.



Musculoskeletal Ultrasound in PM&R: The Certified Basics

Wednesday, March 4, 2020, 8:00am-5:00pm &
Thursday March 5, 2020, 8:00am-12:00pm

Rochelle Dy, MD, Levent Özçakar, MD

In this intensive workshop, you will learn theoretical approaches of musculoskeletal ultrasound, discuss the advantages and disadvantages of its use as a diagnostic tool, recognize the ultrasonographic appearance of various normal tissues, and receive hands-on training in imaging. An experienced sonographer will demonstrate examinations of the shoulder, elbow, wrist-hand, hip, knee and ankle-foot, and participants will perform ultrasonography themselves under supervision of the instructors. You will also receive a certificate upon completion!

Price: \$500 for AAP & ISPRM members/
\$700 for non-members

Spasticity Management: Where Are We Now?

Thursday, March 5, 2020, 8:00am-5:00pm

Gerard Francisco, MD, Michael Creamer, DO, Alberto Esquenazi, MD, Sheng Li, MD, PhD, Alessandro Picelli, MD, PhD, Andrea Santamato, MD, Michael Saulino, MD, PhD

Join us to learn about the latest advances in spasticity management! You will dive deep into topics such as the Tardieu Method, safety and efficacy of phenol as a spasmolytic, utility of anesthetic nerve block in spasticity assessment, guided spasticity injections, do's and don'ts of botulinum toxin therapy, extracorporeal shock wave therapy, ultrasound elastography, the effect of intrathecal baclofen on pain and quality of life, ultrasound-guided intrathecal pump access and the guided self-rehabilitation contract.

Price: \$250 for AAP & ISPRM members/
\$400 for non-members

Neurotomy & Tenotomy: Revolutionizing Spasticity Care through Neuro-Orthopedics

Thursday, March 5, 2020, 8:00am-12:00pm

Thierry Deltombe, MD, François Genêt, MD, PhD, Thierry Gustin, MD, Emily Krauss, MD, Franco Molteni, PhD, Paul Winston, MD

Our presenters will take you on a journey of novel groundbreaking interventions for the management of spasticity. Using the screening tool of the diagnostic anesthetic nerve block, they will demonstrate multiple pathways with percutaneous laser neurotomy and cryoneurotomy laser neurotomy, surgical microvascular neurectomy, and bedside needle tenotomy. Our international faculty will prepare you for a new era in care.

Price: \$99 for AAP & ISPRM members/ \$149 for non-members

Cochrane Rehabilitation: Cochrane Evidence Examine & Deploy (CREED)

Thursday, March 5, 2020, 8:00am-12:00pm

Thiru Annaswamy, MD, William Leveck, PhD, Antti Malmivaara, MD, PhD, Sabrina Paganoni, MD, PhD, Julia Patrick Engkasan, MD, John-Ross Rizzo, MD

This workshop will introduce you to the key principles of systematic review and meta-analysis of published research. Delivered through presentations and exercises, you will learn the basic skills to appraise a systematic review and apply its evidence in the clinical setting. This presentation is designed for residents, specialists and other health professionals pivotal to healthcare decision-making.

Price: \$99 for AAP & ISPRM members/ \$149 for non-members

Cancer Rehabilitation: Global Perspectives for Delivery of Care

Thursday, March 5, 2020, 8:00am-12:00pm

Vishwa Raj, MD, Evren Atabas, MD, Jennifer Baima, MD, Cynthia Bennett, MD, Leighton Chan, MD, Andrea Cheville, MD, Christina de Brito, MD, PhD, Lynn Gerber, MD, Suzanne Gutiérrez Teissonniere, MD, Abderrazak Hajjioui, MD, Monica Hu, MD, Jae-Yong Jeon, MD, Fary Khan, MD, MBBS, Birgit Leibbrand, MD, Jianan Li, MD, Christine MacDonell, FACRM, Monica Pinto, MD

Gain a broad exposure to topics relevant for the delivery of cancer rehabilitation internationally. These internationally renowned speakers will share their subject matter expertise in the administrative, clinical, and research aspects for cancer rehabilitation care delivery.

Price: \$99 for AAP & ISPRM members/ \$149 for non-members

Moving the Needle on Myofascial Pain Syndrome

Thursday, March 5, 2020, 1:00pm-5:00pm

Lynn Gerber, MD, Secili DeStefano, PT, DPT, Dinesh Kumbhare, MD, PhD, Vy Phan, PhD, Jay Shah, MD, Siddhartha Sikdar, PhD, John Srbely, DC, PhD, Antonio Stecco, MD, PhD

Myofascial Pain Syndrome (MPS) is common, confusing and challenging to manage. Discover new ideas about taxonomy, mechanisms including peripheral and central sensitization, limbic system dysfunction, how to objectify clinical findings in MPS to improve its evaluation and management, and more. This workshop will also summarize current practice and effectiveness of treatment of MPS.

Price: \$99 for AAP & ISPRM members/ \$149 for non-members

Managing Swallowing Dysfunction & Dysphagia

Thursday, March 5, 2020, 1:00pm-5:00pm

Marlis Gonzalez-Fernandez, MD, PhD, Yoko Inamoto, PhD, Byung-Mo Oh, MD, PhD, Eric Verin, MD

Treatment-oriented evaluation based on imaging and advances in the science of swallowing are transforming

dysphagia rehabilitation. Swallowing function can be improved with exercise and understanding motor learning to promote performance change can improve patient outcomes. This workshop offers an approach to link evaluation and treatment to the underlying pathophysiology. You will divide into small groups to practice evaluation from videofluoroscopy (VF) and videoendoscopy (VE) images and to generate treatment plans based on real clinical images.

Price: \$99 for AAP & ISPRM members/ \$149 for non-members

Brain & Peripheral Nerve Stimulation for Post-Stroke Recovery

Thursday, March 5, 2020, 1:00pm-5:00pm

Gerard Francisco, MD, Pablo Celnik, MD, Richard Wilson, MD

Discover how to implement peripheral nerve stimulation to relieve shoulder pain in stroke survivors using peripheral nerve stimulation techniques. You will hear the latest evidence regarding peripheral nerve stimulation, the benefits of rTMS and TDCS, vagal nerve stimulation, indications for treatment, and instructions on performing treatment.

Price: \$99 for AAP & ISPRM members/ \$149 for non-members

Developing Quality & Process Improvement Projects

Thursday, March 5, 2020, 1:00pm-5:00pm

Leon Chandler, MD, Christopher Garrison, MD, MBA, James Sliwa, DO

Demystify the Practice Improvement Project (PIP) process that is part of Maintenance of Certification (Part IV) for physiatry. You will get an overview of Quality/ Performance Improvement, including strategies for applying the process to everyday problems in clinical, research, academic and administrative settings. You will also get hands-on experience in developing your own QI/ PI projects in small groups with the help of expert faculty.

Price: \$99 for AAP & ISPRM members/ \$149 for non-members

Special-Interest Workshops



The AAP's special interest workshops, made up of your academic peers, has put together an agenda of actionable sessions delivered by people who live and breathe the challenges and opportunities you face.

Residency & Fellowship Program Directors (RFPD) Workshop

This workshop keeps RFPD coming to the AAP Annual Meeting year after year — and this year will offer international networking! Come to connect, learn and grow your programs with best and novel practices. Program Coordinators are also welcome to join.

Price: \$250 for AAP & ISPRM members/
\$400 for non-members

WEDNESDAY, MARCH 4, 2020

12:00pm-1:30pm

Accreditation Council for Graduate Medical Education (ACGME) Update
Caroline Fischer, MBA and Wendy Helkowski, MD

1:45pm-2:30pm

Resident & Fellow Recruitment Update
Michael Saulino, MD, PhD

2:30pm-3:15pm

American Board of Physical Medicine & Rehabilitation (ABPMR) Update
James McDeavitt, MD

3:30pm-4:00pm

Practice Improvement Projects (PIP)
Carolyn Kinney, MD

4:30pm-5:15pm

RFPD Council Business Meeting
Rita Hamilton, DO

THURSDAY, MARCH 5, 2020

8:00am-12:00pm

Unconscious Bias
Quinn Capers, MD

Residents, Fellows & Medical Students Workshop

THURSDAY, MARCH 5, 2020

8:00am-12:00pm

Daniel Cushman, MD and Nathan Olafsen, MD

This half-day workshop will give you hands-on exposure to physiatric procedures — and it's FREE with your resident, fellow or medical student registration! You will rotate through separate stations taught by expert PM&R faculty and gain skills that will help you excel in your training and career. The stations will include ultrasonography, electromyography, spasticity management and fluoroscopic procedures.

At the end of this workshop, you will have better hands-on knowledge of how to perform basic procedures and identify common physiatric procedures. Reserve your spot when you register!

Price: Free (registration is required)



THE
promise
OF MEDICINE™

Johns Hopkins Rehabilitation Network

The Johns Hopkins Rehabilitation Network continues to push the boundaries of medical education, research and patient care through:

- **Educational and training programs**, including residencies and fellowships for physicians, psychologists and therapists to train future rehabilitation leaders in patient care and research across the world.
- **Research** in the areas of neurological rehabilitation, kinematics, gait, brain stimulation, swallowing disorders and outcomes improvement following injury.
- **Specialty rehabilitation programs** in areas such as neuromuscular disease, multiple sclerosis, stroke, brain injury, postural orthostatic hypotension (POTS), amputation, spinal cord injury, performing arts and swallowing.

To learn more about the Johns Hopkins Rehabilitation Network, please visit hopkinsmedicine.org/PMR/AAP



2018-19 Highlights:



In 2019, Johns Hopkins launched the **Precision Medicine Center of Excellence on Rehabilitation** in the Department of Physical Medicine and Rehabilitation.



Johns Hopkins receives a \$50 million donation to create the **Sheikh Khalifa Stroke Institute** to transform the care of patients with stroke from diagnoses to recovery and rehabilitation.



PM&R's **noninvasive brain stimulation (NIBS)** and **POTS programs** continue to expand in the areas of clinical expertise, research and education.



PM&R is ranked among the **top 10 in National Institutes of Health funding** for U.S. medical schools; 67 academic papers were published in FY 19.



PM&R faculty members and physician-residents developed **software called WeLearnON** to enhance interaction and to facilitate precision education; the group presented on the subject at Psychiatry '19.

Design Your ISPRM 2020 Experience

ISPRM 2020 offers stimulating plenary sessions that are designed to engage a diverse audience in strengthening the specialty of physiatry. We also feature speakers and presentations that showcase world-class research and off-the-press information about administration and education. We've organized the experience into 6 unique tracks:



Clinical

Take new worldwide insights to practice with our clinical track, bringing you the sought-after topics in patient care.



Academic & Research

Discover the best practices and latest trends in educational curricula, career development, research and more.



Administration

Find insights on building ongoing success for your program, department, institution, and the future of the specialty worldwide.



Student, Resident & Fellow

Trainees, learn critical career development skills from your peers and leaders in the specialty.



Spanish

We're thrilled to present sessions designed by the Mexican Society of PM&R, AMLAR, and others for our Spanish-speaking participants. We'll also have translation services for Plenary Sessions and other important topics throughout the meeting.



Technology

Learn the latest technological advances that can support your clinical care, research development and teaching.

Earn up to 32 AMA PRA Category 1 Credits™

Get the most up-to-date schedule, view speaker bios and more on the ISPRM 2020 Itinerary Planner. Visit www.physiatry.org/2020Schedule.

Friday | March 6, 2020



EDUCATIONAL SESSIONS 1

8:00am-9:00am



Implementing Innovative Curricula for Medical Students & Residents



Adam Stein, MD, Susan Maltser, DO

Discover three innovative curricula at distinct levels of medical education: "Living with Physical Challenges", "Implementing a Required Clinical Experience in a Third Year Curriculum" and "Implementing a Humanism Curriculum in a PM&R Residency". You will gain novel ideas for curricula that have been successfully implemented at a millennial medical school and an existing residency program.



Cardiac Rehabilitation (CR) in Non-Cardiac Patient Populations

Matthew Bartels, MD, MPH, David Prince, MD

We will review the latest techniques of CR for outpatient and post-acute care rehabilitation of patients with musculoskeletal and neuromuscular diseases as well as for patients who present with ischemic heart disease and heart failure. Similarly, CR principles for patients in intensive care settings will be discussed. Special attention will be given to how to apply CR principles to patients at higher risk for cardiovascular diseases, including peripheral vascular disease and stroke.



Regenerative Rehabilitation: Exploring New Frontiers (Part 1)



Walter Frontera, MD, PhD, Fabrisia Ambrosio, PhD, MPT, Thomas Rando, MD, PhD, Martin Stoddart, PhD

Advances in regenerative medicine and tissue engineering are burgeoning, and these technologies are poised to impact rehabilitation clinical practice. Learn all about the field of Regenerative Rehabilitation and exemplars that establish a mechanistic foundation for the application of rehabilitation protocols.



Navigating International Rehabilitation Research Collaborations

Kathleen Bell, MD, Thiru Annaswamy, MD, Mehari Gebreyohannis, MD, Qing Mei Wang, MD, PhD

Rehabilitation-trained health care providers in developing countries are often sparse. Discuss issues related to the planning and performing of international collaborative research in physiatry relevant topics, coping with scarce resources, language and cultural barriers, ethical questions, and strategies to better frame research questions that would be beneficial to the global setting.



Myofascial Pain Syndrome: Peripheral & Central Mechanisms

Dinesh Kumbhare, MD, PhD, Jay Shah, MD, John Srbely, DC, PhD, Antonio Stecco, MD, PhD

Explore the basic and clinical research in the area of chronic myofascial pain. You will discover the contribution of central sensitization and neurogenic inflammation in the clinical manifestation of chronic myofascial pain, as well as the emerging role of the fascia.



Prognosticating Recovery in Spinal Cord Injury

Steven Kirshblum, MD

Discuss parameters used to help prognosticate neurological recovery after traumatic spinal cord injury and predictive models for predicting walking.



Musculoskeletal Ultrasound in PM&R: Diagnostics & Intervention



Levent Özçakar, MD, Ricci Vincenzo, MD

Explore several aspects concerning the utility of ultrasound imaging in physiatry. You will participate in an in-depth discussion on concrete examples of how clinicians can implement this technique in their daily and academic practice.



Muscle Strength Assessment in Rehabilitation Worldwide



Joaquim Chaler, MD, PhD, Federica Anasetti, Roser Garreta, MD, Mercè Torra, MD

Get a thorough update of strength assessment methods in rehabilitation globally, recent and updated evidence on reliability and validity in real-life clinical situations, medico-legal applications of the techniques, future research needs, and more.



PLENARY SPEAKERS:
Thomas Rando, MD, PhD
and Quinn Capers, MD
9:15am-10:15am

REFRESHMENT BREAK IN THE EXHIBIT HALL
10:30am-11:00am

EDUCATIONAL SESSIONS 2

11:00am-12:00pm



Responding to the Opioid Crisis with a Rehabilitation-Based Approach



Steven Stanos, DO, Efthimios Kouloulas, MD, PhD

Learn about the evidence and current state of interdisciplinary pain programs, evolving models of care, and novel clinical integration of treatment interventions. You will be exposed to present US and European models of care, highlighting traditional behavioral interventions, occupational therapy, physical therapy, and pain education.

 Emotional Intelligence Training: Is There a Role in Medical Education?

 James Sliwa, DO, Monica Rho, MD

Emotional intelligence (EI) skills in physicians have been positively correlated with patient trust, improved patient follow-up, improved doctor- patient satisfaction, and resident well-being. Review the components of EI, its value in medical education and a pilot emotional intelligence training program for PM&R residents.

 Novel Advancements in the Treatment of Musculoskeletal Pain

Sheng Bi, MD, PhD, Carl Chen, MD, PhD, Ming-Yen Hsiao, MD, PhD, Gi-Young Park, MD, PhD, Yu-Cheng Pei, MD, Shaw-Gang Shyu, MD, Areerat Suputtitada, MD, Simon Tang, MD

Discover the newest advancements in pain treatments, including precision pain treatment using musculoskeletal ultrasound-guided injection skills.

 Mobility of the Aged Population

Walter Frontera, MD, PhD, Gerold Ebenbichler, MD, Lars Oddsson, PhD, Katharina Pils, MD

Understand current clinical knowledge about mechanisms that may contribute to mobility decline in elderly individuals in general and address the relevance of preserving back muscle function to prevent early functional decline and frailty in seniors. In addition, the concept and data on the efficacy of novel wearable sensory neuroprostheses for safer mobility and lower fall risk in the aged population will be presented.

 How to Implement Fragility Fracture Integrated Rehabilitation Management

 Jaewon Beom, MD, Ian Cameron, PhD, Maria Crotty, MPH, PhD, Bo-Ryun Kim, MD, PhD, Jae-Young Lim, MD, PhD, Mooyeon Oh-Park, MD

Get an overview of the global trends in fragility fracture care, and personal experiences in implementing fragility fracture rehabilitation to clinical practice fit for the health care system at the regional level.

 Regenerative Rehabilitation: Exploring New Frontiers (Part 2)

 Walter Frontera, MD, PhD, Fabrisia Ambrosio, PhD, MPH, Joanne Borg-Stein, MD, Sun Chung, MD, Sean Savitz, MD

In the second session of this two-part series, you will learn opportunities, obstacles and challenges encountered in the clinical translation of Regenerative Rehabilitation. You will also participate in an interactive and moderated discussion between panel members and the audience to map a strategic plan for advancing the field.

 Improving Outcomes with Chemodenervation Techniques

Alessandro Picelli, MD, PhD, Andrea Santamato, MD

Learn recent evidence-based data and expert consensus on optimizing chemodenervation technique to improve both patient-centered and technical outcomes.



PLENARY SPEAKER:
Amy Wagner, MD
1:30pm-2:00pm

EDUCATIONAL SESSIONS 3
2:45pm-3:45pm

 Medicinal Marijuana & Hemp in Rehabilitation Medicine: The Pediatric & Adult Experience

 Tamara Zagustin, MD, Amol Deshpande, MD, Marisa Flavin, MD, Nimish Mittal, MD, Maurice Sholas, MD, PhD, Pamela Wilson, MD

Join us as we review the current literature and practices for medicinal marijuana and hemp use in pediatric and adult populations, understand the role of medicinal marijuana and hemp in psychiatry, identify opportunities and needs to optimize the patient-physician relationship, explore the present and potential future with the use of medicinal marijuana and hemp, and more.

 Knee Osteoarthritis: What Can I Offer You?

Fernando Sepulveda, MD, Amit Bhargava, MD, Michael DePalma, MD

Osteoarthritis (OA) of the knee is a common degenerative chronic disease that causes debilitating pain and affects the quality of life. Discuss various treatments that have been documented (including medication, lifestyle, injections and surgery) and newer techniques.

 From Bench to Bedside: Plasticity in Human Neurodegeneration

Mark Hirsch, PhD, Patricia Heyn, PhD, Ted Kheng Siang Ng, PhD, Mark Newman, PhD, MPH, Erwin Van Wegen, PhD

Physical exercises and cognitive interventions have been shown to increase the concentration of peripheral brain-derived neurotrophic factor (BDNF) levels in the human brain with significant improvements in physical and/or cognitive functions. Discover the evidence underpinning the potential of BDNF as a biomarker and potential clinical outcome measures, as well as opportunities, pitfalls and recommendations for use.

 Exercise & Epigenetic Modulation

Viviane Rostirola Elsner, PhD



Physical exercise is known to be a potent modulator of epigenetic markers, which is associated with the improvement of clinical-functional outcomes in different populations. Develop a deeper understanding of these topics, demonstrating how the practice of exercise can influence the behavior of genes in both healthy individuals and patients with chronic pathologies.

 A Unified Model for Stroke Recovery & Rehabilitation

Preeti Raghavan, MD

Learn about recent efforts at the Johns Hopkins Sheikh Khalifa Stroke Institute to define and coordinate an intensive, strategic effort to develop effective stroke systems of care across the continuum by integrating operations, core outcome assessments, technology and education to facilitate post-stroke recovery and restoration of function and quality of life to those afflicted.

 Conservative Treatment of Hip Osteoarthritis

Marcelo Riberto, MD, PhD

Conservative strategies to control pain and improve functioning may be needed when total hip replacement is not available or indicated. Review the current evidence in rehabilitation interventions and research results related to the myofascial component of pain in the hip and neural block of the obturator nerve.

 Clinical Implementation of Evidence-Based Orthobiologics

Michael Baria, MD, James Borchers, MD

Gain a comprehensive, evidenced-based approach to orthobiologics, specifically platelet-rich plasma (PRP) and cellular products, for treating osteoarthritis and tendinopathy. You will analyze the basic science and clinical outcomes, discuss differences in PRP preparation techniques, dispel popular misconceptions, and get a user-friendly, evidenced-based framework to guide orthobiologic applications in patient care settings.

 How the Prescription Drug Epidemic Became an Opioid Epidemic

 Johnathan Goree, MD

Explore the many factors that contributed to the genesis of the opioid crisis, the history of illicit drug policy in the United States, if limitations on opioid prescribing are helpful or hurtful, and downstream clinical changes that may improve chronic pain and opioid related outcomes.

 Rehabilitation Care of Medically Complex Patients

Anne Felicia Ambrose, MD, MS, Sara Cuccurullo, MD, Mooyeon Oh-Park, MD, Marta Supervia, MD, PhD

Medical advancements for traumatic and chronic conditions have increased survival of patients. Learn how to provide the needed care for this population of patients with increasing complexity of their medical needs, through all the spectrum of acute and post-acute care.

 Exercise Training in Patients with Myocardial Infarction & Diabetes Mellitus Type 2

Milica Lazovic, MD, Carmen Terzic, MD, PhD

While the beneficial effects of exercise training (ET) and rehabilitation are well known, it remains unclear which characteristics of ET are most effective in rehabilitation of patients with myocardial infarction (MI) with comorbidity and diabetes mellitus (DM) type 2. Explore the science to guide your approaches.

 Adjunctive Therapies to Enhance Botulinum Toxin Injection for Focal Spasticity

 Stefano Carda, MD, Jordan Farag, MD, Jorge Jacinto, MD, Rajiv Reebye, MD, Areerat Suputtitada, MD

Get evidence and case-based practical approaches in utilizing adjunctive therapies such as serial casting, taping, electrical stimulation, shock wave therapy and neuromodulation to enhance spasticity management.

REFRESHMENT BREAK IN THE EXHIBIT HALL
4:00pm-4:30pm

EDUCATIONAL SESSIONS 4
4:30pm-6:00pm

 RATULS on Upper Extremity Rehabilitation Robotics

Helen Bosomworth, PhD, Hermano Igo Krebs, PhD, Helen Rodgers, MD, Frederike van Wijck, PhD

Robot Assisted Training for the Upper Limb After Stroke (RATULS) enrolled 770 stroke participants, making it the largest study of its kind. Get an overview of the study, clinical results, the kinematic measurements and enhanced upper limb therapy, and the possible advantages these interventions offer.

 Patient Profiling as Pain Biomarkers for Knee Osteoarthritis

Linamara Rizzo Battistella, MD, PhD, Roberto Abi Rached, MD, PhD, Marta Imamura, MD, PhD, Andre Tadeu Sugawara, MD

Total knee replacements are estimated to increase by 700% by 2030. Learn how to address the burden of this health condition using the knowledge of neural plasticity both in the assessment and management of pain and disability in this patient population.



3D Kinematic Analysis for Patients with Knee Osteoarthritis

Felipe Gonzales, MD, Leonardo Metsavaht MD, MSc, Ricardo Salvodelli, MD

The estimated symptomatic knee osteoarthritis (KOA) lifetime risk is 44.7%, and this slow progressive degenerative disorder affects a wide age range. Discuss the role of innovative 3D kinematic technologies and the evolving knowledge on biomechanics of lower limbs for improving diagnosis and optimizing rehabilitation.



#WhyWeMove: Physical Activity in People with Disabilities in the Digital Age

Mark Peterson, PhD, Joseph Balikuddembe, Rory Cooper, PhD, Uma Pandiyan MD, Abderrazak Hajjioui, MD, Yetza Tuakli-Wosornu, MD, MPH

Join our dialogue about modern-day correlates of mobility and physical activity in persons with impairment. With themes from diverse cultural contexts, you will get new, globally-balanced knowledge on this topic, in addition to reviewing pragmatic best practices and important knowledge gaps.



Tough Conversations: Delivering Effective Feedback



Alex Moroz, MD, MHPE, Kristin Carmody, MD, MHPE, Ninad Karandikar, MD, Sara Raiser, MD, Regan Royer, MD, Justin Weppner, DO

Take part in interactive small group activities to gain tools to provide timely, effective, high-quality feedback to trainees. Examine evidence-based approaches to providing effective feedback, factors that influence the quality of feedback, and put your new skills into action with case-based scenarios and role-playing techniques.



Cryoablation: Emerging Tech for Musculoskeletal & Peripheral Nerve Disorders

McCasey Smith, MD, John Alm, DO, Neil Segal, MD, MS

Discover the background and evolution of cryoneurolysis (a valuable non-surgical tool), as well as mechanism of action, evidence, uses, and technical considerations through a variety of audiovisual tools including treatment videos.



PM&R Investigations for Evaluation of Peripheral Nerves



Amit Bhargava, MD, Gulseren Akyuz, MD, Faren Williams, MD

Electroneuromyography (ENMG) provides functional information about the peripheral nervous system. Learn how to use this tool to diagnose problems, share the results with patients, discuss the healing process, and treat successfully. You'll also review various studies evaluating the size of the nerves.



Rehabilitation for Visceral Impairment

Masahiro Kohzuki, MD, PhD, Jianan Li, MD

Learn the present status of visceral impairment and dysautonomia, and the effect of rehabilitation for these patients.



Dysautonomia: More Common Than You Think

Bryan O'Young, MD, Tashof Bernton, MD, Robert Schwartz, MD

Autonomic dysfunction is quite common and has been implicated in numerous clinical conditions. Discover a paradigm of care utilizing sympathetic skin response testing to objectify dysautonomia and treatment protocols to address the various neuromuscular conditions with autonomic dysfunction.



Advances in Botulinum Toxin & Neuro-Engineering Technologies

Sheng Li, MD, PhD, Yen-Ting Chen, PT, PhD, Gerard Francisco, MD, Yingchun Zhang, PhD

Though its effectiveness in spasticity reduction is well studied, there are clinical and research challenges regarding the best practice of Botulinum Toxin (BoNT) therapy. Discuss clinical challenges and controversies in BoNT therapy and how neuro-engineering techniques can improve clinical application of BoNT in spasticity management.

POSTER GALLERY RECEPTION
6:00pm-7:00pm

OPENING CEREMONY & WELCOME RECEPTION
7:30pm-9:00pm



REHAB 5K RUN, WALK & ROLL

Benefitting the Foundation for PM&R

6:30am-7:30am

EDUCATIONAL SESSIONS 1

8:00am-9:00am



Machine Learning in Brain Injury Medicine



Lauren Shapiro, MD, MPH, Jerry Bonnell, Hannah Radabaugh, Dilip Sarkar, PhD, Odelia Schwartz, PhD

Explore the capabilities and limitations of machine learning in brain injury medicine. You will also gain an understanding of how this technology can augment our clinical decision-making to optimize outcomes for survivors of TBI, assist in prognostication, and facilitate the translation of diagnostic and treatment techniques to the care of these patients.



Lesiones Deportivas y Medicina Regenerativa: Cual es la Evidencia?

Francisco Bentz Brugal MD, Isabella Nunez, MD, Manuel Wong, MD

Se ha hecho cada vez mas frecuente recurrir a tratamientos de Medicina Re-generativa para ayudar a la solucion de lesiones en los atletas. La evidencia y pertinencia es muchos veces cuestionada. Ha llegado el tiempo de usar estos tratamientos como parte habitual de la terapeutica moderna? Este es el tema central de este workshop.



International Perspectives on Patients with Disorders of Consciousness



John Whyte, MD, PhD, Angela Colantonio, PhD, Flora Hammond, MD, Martin Monti, PhD, Caroline Schnakers, PhD, Aurore Thibaut, PhD, Thomas Watanabe, MD

Managing persons with disorders of consciousness (DOC) is an important area of rehabilitation that continues to evolve. Examine a wide range of issues, including systems-based, diagnostic accuracy, identification of best practice clinical care, scientific evidence for innovative interventions to enhance recovery, practice variations and the need for further research.



An Emerging ICF-Based Tool for Assessing & Reporting Patient Functioning

Julia Patrick Engkasan, MD, Francesca Gimigliano, MD, PhD, Jianan Li, MD, Masahiko Mukaino, MD, PhD, Aydan Oral, MD

The Clinical Functioning Information Tool (ClinFIT) is an emerging, universally accepted and simple-to-use data collection tool that can be tailored for use across

countries and the range of rehabilitation services. Hear about the experience of first implementation efforts across ISPRM member countries (China, Japan, Malaysia, and diverse European countries) and insights into benefits and areas of improvement.



Artificial Intelligence in PM&R

Chetan Anand, MD

Learn all about artificial intelligence (AI) – the various algorithmic models used in data processing that form the framework for AI, the current literature related to AI and studies related to the field of PM&R. You will also hear about its limitations, how AI could develop in the future, and how to make it a meaningful tool for patients.



Neuromodulation: From Head to Toe

Erin Feinstein, MD, Antonios Mammis, MD

Get an evidence-based review of the current state of science related to neuromodulation and its implications for rehabilitation specialists. Topics to be covered include mechanisms of action, evidence of clinical efficacy and indications based on current research and clinical studies.



Rehabilitation & New Technologies: Education & Relationships for Professionals

Alessandro Giustini, MD, Maria Chiara Carrozza, PhD, Daiana Popa, MD, PhD

Join the European Society of PRM's Interest Group on Robotic and New Technologies in Rehabilitation as we discuss new applications of technology in rehabilitation and the great needs for rehabilitative verifications on existing equipment, common clinical paradigms and protocols, a growing role for technicians and bioengineers, and research to better orient technological applications in the future.



ABPMR Longitudinal Assessment (CertLink): What It Means for You

Carolyn Kinney, MD

As of January 2020, diplomates of the American Board of Physical Medicine and Rehabilitation (ABPMR) use longitudinal assessment as part of their Maintenance of Certification (MOC) requirements. Get context and history of MOC Part III, longitudinal assessment basics, the ABPMR's longitudinal assessment pilot and user satisfaction results, the rationale behind implementation plans, and what the transition means for you.

 A Model Center for Limb Loss Restoration & Rehabilitation

David Crandell, MD, Danielle Melton, MD, Terrence Sheehan, MD

Working with patients with upper and lower limb loss creates unique rehabilitation challenges during pre-operative, post-operative, pre-prosthetic and prosthetic phases of care. Discover a civilian model of an interdisciplinary center for individuals with limb loss based on ongoing development at three academic physiatric programs.

 Updates in Pediatric Rehabilitation: Pain & Neuromuscular Diseases

 David Cancel, MD, Mario Giraldo-Prieto, MD, Dara Jones, MD, Veronica Matassa, MD, Coral Candelario-Velazquez, MD

Get practice updates in various aspects of pediatric clinical care, including pediatric pain, spinal muscular atrophy, Duchenne muscular dystrophy and vocational skills assessment for persons with intellectual disabilities.

 Implementation of an International SCI Survey

 Jerome Bickenbach, PhD, Gerold Stucki, MD, MS, James Middleton, PhD, Julia Patrick Engkasan, MD

The International Spinal Cord Injury (InSCI) community survey provides data on the lived experience of persons with SCI across 22 countries. It will be the first survey that identifies factors associated with functioning, health, and well-being of persons living with SCI. Learn more about InSCI, early results, and an implementation strategy.

 Applying to a PM&R Residency: Roundtable with Program Directors

Miguel Escalon, MD, Monica Rho, MD, Eric Wisotzky, MD, Emily Kivlehan, MD

Medical students, get your burning questions answered about the application and interview process and how to be successful in the PM&R match. Join us for a panel discussion followed by intimate small group discussions led by a Program Director.



PLENARY SPEAKERS:
Victor Dzau, MD (DeLisa Lecture) and Peter Agre, MD
9:15am-10:15am

REFRESHMENT BREAK IN THE EXHIBIT HALL
10:30am-11:00am

EDUCATIONAL SESSIONS 2
11:00am-12:00pm

 Disaster Rehabilitation: Common Injuries & Disabilities Seen Post-Disaster

 Maralee Alexander, MD, Jan Dietrich Reinhardt, PhD, Filipinas Ganchoon, MD, Su Yi Lee, PhD, Vandana Vasudevan

Discover the common injuries and disabilities seen during natural and manmade disasters, how they are classified based on ICF classification, their long-term outcomes and complications.

 How Social Media Can Positively Impact Your Medical Career

James Eubanks, MD, MS, Vinny Francio, MD, PhD, April Hyon, MS-IV, George Raum, MS-IV, Justin Schappell, MD, Raman Sharma, MD, Monica Verduzco-Gutierrez, MD, Eric Wisotzky, MD

Hashtag this! Get an enhanced professional toolbox of high-powered communication tools that you can use to advance your academic, research and advocacy agendas. You will learn current social media concepts, how it can positively impact your career (from medical students to faculty), and how our panel utilizes social media for professional development and networking.

 Delayed Recovery & Long-Term Consequences of Repetitive Head Trauma

Ross Zafonte, DO, Janine Brodovsky, PT, DPT, Thomas Watanabe, MD

Get an evidence-based review of the present literature and explore on-going innovative studies that are assessing risk factors for symptom chronicity, interventions that target symptom reduction in the first few weeks after injury, and ongoing studies that are examining the critical risk factors of long-term consequences of repetitive sport related concussion.

 Virtual Reality for the Treatment of Pain in the Outpatient Rehabilitation Setting

David Binder, MD, MBA, Zacharia Isaac, MD

Explore the benefits and evidence surrounding the use of virtual reality (VR) in outpatient spine/pain management practices, helpful implementation and protocol strategies, how to overcome common pitfalls, and important considerations when conducting research using VR technologies.

 Insights from the Clinical Sciences & Research Committee

Gulseren Akyuz, MD, Paolo Capodaglio, MD, Marco Franceschini, MD, Marta Imamura, MD, PhD, Giovanni Iolascon, MD, PhD, Dinesh Kumbhare, MD, PhD, Stefano Negrini, MD, Mauro Zampolini, MD

The ISPRM's Clinical Sciences & Research Committee was designed to improve the quality of research in PRM, enhance our understanding of disability issues, and inform disability policy. Explore research from its committee members and useful rehabilitative clinical recommendations.

 Rehabilitation Technology for Patients with Neurologic Dysfunction

Gerard Fluet, DPT, PhD, Sergei Adamovich, PhD, Jean Francois Daneault, PhD, Alma Merians, PT, PhD, Karen Nolan, PhD

Get updates on important technologies that are currently being incorporated into plans of care for persons with movement disorders, such as exoskeletons, robots, wearable sensors, virtually simulated rehabilitation activities and telerehabilitation interfaces.

 Underrepresented Minorities in PM&R in the United States

Miguel Escalon, MD, Joel Frontera, MD, Monica Verduzco-Gutierrez, MD

Help us improve inclusion, recruitment and advancement of underrepresented minorities in medicine in order to improve patient care and equity. We will look at the shortage of minorities who enroll in medical school and in PM&R at the residency and attending levels, as well as the issues that arise from these discrepancies.

 Amputation Rehabilitation Around the World

 Daniela Garcia, MD, Alberto Esquenazi, MD, Carolina Schiappacasse MD, Joseph Webster, MD

Come together with experts in amputation rehabilitation from several countries to compare the rehabilitation care provided to persons with limb amputation.

 Cancer Rehabilitation Care for Children with Hematologic/Oncologic Diagnoses

Christian Niedzwecki, DO, MS, Mona Shah, MD, MS, MBA

Explore rehabilitation considerations for treating childhood cancer, including the demographics of diagnoses, the philosophy of care based on clinician/discipline training, the rehabilitation experience, and palliative care for children with hematologic and oncologic diagnoses.

 Ejercicio y Deporte en Personas con Lesion Medular

Raul Smith, MD, MSc, Daniel Bueno, MD, MSc, Fatima Fernandes

La sesión mostrará la evolución del deporte para las personas con lesión medular en el contexto de la rehabilitación, inclusión social y el deporte paralímpico. Ofrece consejos prácticos sobre cómo aplicar la fisiología del ejercicio en rehabilitación y deporte.

 Demystifying the PM&R Boards

Carolyn Kinney, MD, Allison Bean, MD, PhD, Christopher Garrison, MD, MBA, James McDeavitt, MD

Preparing for the ABPMR Part II Examination? Get a brief overview of the board certification process and how to access free ABPMR resources for each step in the process. You will also get a mock demonstration of a Part II (oral) Examination session, including the latest changes to the exam structure, a discussion of the evaluation process and tips for success.

COMPLIMENTARY LUNCH IN THE EXHIBIT HALL
12:00pm-1:30pm



PLENARY SPEAKERS:
Karen Nakamura, PhD and Der-Sheng Han, MD
1:30pm-2:30pm

EDUCATIONAL SESSIONS 3
2:45pm-3:45pm

 Improving Static & Dynamic Balance in Neurologically Impaired Populations

Rakesh Pilkar, PhD, Didier Allexandre, PhD, Peter Barrance, PhD, Gail Forrest, PhD, Karen Nolan, PhD, Soha Saleh, PhD

Uncover novel approaches aimed at assessing and improving static and dynamic aspects of balance in neurologically-impaired populations. Learn underlying mechanisms of balance function, how a neurological impairment affects these mechanisms and overall function, and innovative rehabilitation approaches.

 New Frontiers in Pelvic Pain, Myofascial Pain Syndrome & Central Sensitization

Jay Shah, MD, Secili DeStefano, PT, DPT, Colleen Fitzgerald, MD, MS

Develop a framework for patients who have multiple co-morbidities associated with pain and central sensitization not limited to the pelvis. You will explore new insights into the relationship between pain and endometriosis, as well as the role viscero-somatic and somato-visceral interactions play in the assessment and management of chronic pelvic pain (CPP).

 Rehabilitation Robotics & Technology in PM&R

Franco Molteni, MD, Ning Cao, MD, Alberto Esquenazi, MD, Joel Stein, MD

Discover the use and application of robotics and other technologies in rehabilitation - from realities to myths to possibilities.

 Repetitive Brain Injury & its Effect on Health

Ross Zafonte, DO, Steve DeKosky, MD

Examine the history and evidence from pathological, epidemiological, biomarker and imaging data of the link with neurodegeneration after repetitive brain injury. Discuss how to deliver informed risk-based information to those involved in activities that could expose participants to repetitive brain injury and the diagnosis of neurodegenerative conditions in those with repetitive brain injury exposure.

 Implementing Exercise Programs Across the Cancer Rehabilitation Care Continuum

Ishan Roy, MD, PhD, Prakash Jayabalan, MD, PhD, Sonal Oza, MD, Rebecca Wilson-Zingg, DO

Join cancer and musculoskeletal physiatrists to explore the unique challenges of implementing individualized exercise therapies for cancer patients across the spectrum of rehabilitation - including program highlights from the University of Utah and the Shirley Ryan AbilityLab.

 Electromiografía (EMG) en América Latina

Jorge Gutierrez MD, PhD, Juan Manuel Guzman, MD, Carlos Rangel, MD

Acompáñenos y aprenda técnicas específicas de EMG en el contexto de la esclerosis lateral amiotrófica (ELA) y la disfunción neuromuscular en pacientes con cáncer; además, conozca los errores comunes que se cometen en los estudios de conducción de los nervios.

 mAb-normal Rehabilitation of Neuromusculoskeletal Complications of Biologic Therapy in Cancer

Michael Stubblefield, MD, Cristina Kline-Quiroz, DO, Ashish Khanna, MD

Develop your knowledge of monoclonal antibodies in cancer treatment, the potential neuromusculoskeletal complications and their clinical presentations, the role of the physiatrist in evaluation and treatment of neuromusculoskeletal complications, and more.

 CAPM&R Sessions: Canadian Approaches to Spasticity Care & Single-Payer Systems

Larry Robinson, MD, Paul Winston, MD

Brought to you by our co-hosts, the Canadian Association of Physical Medicine & Rehabilitation (CAPM&R)! In these back-to-back 30-minute sessions, you will hear about:

- The key role of the diagnostic anesthetic nerve block and novel innovation through cryoneurotomy and selective micro fascicular neurectomies;
- Observations on PM&R in single-payer Canada vs. the U.S. from a physiatrist who has worked in both systems.

 Navigating Global Health Opportunities in Physiatry Education

Amy Mathews, MD, Lauren Shapiro, MD, MPH, Leslie Rydberg, MD

Discuss issues related to the development and implementation of global health clinical opportunities for trainees in physiatry, such as the role of physiatrists in global health settings, building partnerships with existing medical school and residency global health programs, structuring rotations to maximize educational value for PM&R residents, and addressing ACGME requirements for trainees in planning global health rotations.

 A Neurocognitive Approach to Musculoskeletal Rehabilitation

Amy West MD, EdM, Chris Hunt PT, DPT, Dana Kotler, MD

Discover the potential application of neurorehabilitation principles to musculoskeletal pain treatment. You will learn to identify faulty movement patterns related to musculoskeletal injuries, emerging literature in musculoskeletal and pain rehabilitation, and how to assess functional movements, identify dysfunctional movement patterns, and effectively communicate concerns to a physical therapist.

 Medical Student & Resident Roundtables

Ask questions and discuss physiatry with fellow trainees representing a variety of subspecialties, interest, programs and regions!

 Bone-Tendon Junction Injury: Evolving Research & Clinical Approach

Kentaro Onishi, DO, Michael Fredericson, MD, James H-C Wang, PhD

Bone-tendon junction injuries are one of the most common, but many treatments are largely palliative, causing a high risk of recurrence. Learn the biology of bone-tendon junction, and the current state of both non-operative and operative approaches to this specific type of tendon injury.

 Reestablishing Spasticity Management for Adults with Cerebral Palsy

Heakyung Kim, MD, Amber Newell, OTRL, PNP, David Roye, MD

Learn how to approach spasticity management for adults with cerebral palsy (CP) with chemoneurolysis and/or orthopedic intervention. You will also explore how to treat this growing population, common orthopedic conditions that often lead to an increase in spasticity, and indications for orthopedic surgery for adults with CP.

 Evidence-Based Personalized Approach to Idiopathic Scoliosis

Stefano Negrini, MD

Recent advances in so-called conservative or PRM treatment of idiopathic scoliosis has shown the efficacy of braces and scoliosis specific exercises. Learn an integrated approach, combining the most effective tools in the specific patient's situation.

REFRESHMENT BREAK IN THE EXHIBIT HALL
4:00pm-4:30pm

EDUCATIONAL SESSIONS 4
4:30pm-6:00pm

 Meniscus Update: Evolving Research Models & Clinical Practice

Kentaro Onishi, DO, Andrew Gordon, MD, PhD

Discover the utility of ultrasound in evaluation of meniscus pathologies, two discreet research models, and the current status of meniscus injury treatment. Views will be presented not only by non-surgical musculoskeletal experts, but also from surgical experts.

 Optimizing the Care of Patients Transitioning from Pediatrics to Adult Medicine

Monica Tietsworth, MBA, Nicole Blitzler, RN, CNM, MSM, Brad Dicianno, MD, Kelly Heath, MD, Amy Houtrow, MD, MPH, PhD, Ashlee Jaffe, MD

The model of care in pediatric medicine is very different than adult medicine and often patients can get lost to follow up. Learn how collaborative effort can help the patient and their family access adult care services.

 Body Worn Technology in Mobility Assessment Following TBI

Shanti Pinto, MD, Nahir Habet, MS, Mark Hirsch, PhD, Mark Newman, PhD, MPH, Kathryn Williams, PT, DPT, CBIS

Many gait changes occur following traumatic brain injury (TBI). Dive deep into the assessment of gait and gait-related mobility abnormalities following TBI in both clinical and research settings. You will also get a framework for assessment of gait changes, and how dual task conditions and technology can be used in clinical and research settings.

 Enfoques Manuales e Instrumentales en los Tejidos Blandos

Elva Garcia, MD, Irene Rodriguez, MD

La medicina de rehabilitación desempeña un papel importante en la reducción del dolor musculoesquelético y relacionado con el movimiento. Aprenda sobre una estrategia que puede utilizar para apoyar a sus pacientes: cómo usar las manos y/o instrumentos en la movilización de los tejidos blandos.

 Trends in Knee Orthoses & Exoskeletons for Post-Stroke Locomotion Training

Nikola Dragojlovic, DO, Shuo-Hsiu Chang, PT, PhD, Hao Su, PhD

The knee joint is one of the strongest and most important joints in the human body. Discover current developments and uses of knee orthoses and exoskeletons for locomotion training in persons with gait disability following stroke, as well as common gait abnormalities and highlights from recent research.

 Long-Term Effects of Repetitive Head Trauma in Sports & Military

Daniel Daneshvar, MD, PhD

Chronic traumatic encephalopathy (CTE) is a neurodegenerative disease associated with exposure to repetitive head impacts. Explore what is known about the pathological and clinical diagnosis of CTE, risk factors for developing the disease, and the effect of age of first exposure.



RESIDENT/ FELLOW COUNCIL (RFC) ELECTIONS

Come cast your vote as candidates present their background, skills and goals as they vie for the RFC's 2020-2021 leadership roles!



Screening & Diagnosis of Sleep Apnea in Acute TBI

Risa Nakase-Richardson, PhD, Kathleen Bell, MD, Marc Silva, PhD

Review the results from a PCORI-funded comparative effectiveness clinical trial of sleep apnea screening and diagnostic tools conducted during inpatient rehabilitation at six TBI Model System Centers.



Writing a Scientific Manuscript & Getting Published

Walter Frontera, MD, PhD

Break down the scientific article and the content that should be included in each of the sections of a manuscript. You will also learn about the submission and peer-review process typically used by medical journals.



Evaluation & Assessment of Osteoarthritic Hand

Fitnat Dincer, MD

With respect to evidence-based medicine, learn how to evaluate and assess Osteoarthritic Hand as Nodal Hand Osteoarthritis (HOA), non-nodal HOA, erosive HOA, thumb-based HOA, and generalized HOA.



Evaluation of the Osteomuscular System in Rehabilitation & Daily Practice

Tomislav Kranjcec, MD

Explore common biomechanics exploration and evaluation systems, how they support a doctor's decision regarding labor and sports capacity, objectivizing evolution during recuperation/ rehabilitation, and determining functional incapacity and/or detecting simulation.



Leaving No One Behind: A Meaningful UN & ISPRM Partnership

Bryan O'Young, MD, Dianne Davis, PhD, Akiko Ito, PhD, Fary Khan, MD, MBBS, Sam Wu, MD, MBA, MPH

The sustainable development goals (SDGs) were approved by all 193 UN member states as a global framework towards an inclusive and sustainable world. ISPRM has partnered with the UN for the implementation of the SDGs to ensure that no person with disabilities is left behind. Join us as we identify the activities that directly and indirectly contribute to the SDGs and discuss publishing them in scientific journals for world recognition and utilization.



Getting Ahead for Your Behind: Multidisciplinary, Multimodal Cancer Prehabilitation



Jennifer Baima, MD, An Ngo-Huang, DO, Tara Rampal, MBBS, FRCA

Get an overview of the role of multidisciplinary, multimodal prehabilitation in cancer, as well as clinical and research examples of prehabilitation in practice in different countries for different cancer types.

ISPRM ASSEMBLY OF INDIVIDUAL MEMBERS
6:00pm-7:00pm

POSTER GALLERY RECEPTION
6:00pm-7:00pm

RESIDENT & FELLOW
NETWORKING NIGHT
7:00pm-8:30pm
Topgolf Orlando



AAP ANNUAL MEMBER CAUCUS & AWARDS
7:00am-8:30am



PLENARY SPEAKER:
Akiko Ito, PhD
8:30am-9:00am

EDUCATIONAL SESSIONS 1
9:15am-10:15am



Actigraphy in Acute TBI Polytrauma: The James A Haley VA Experience

Risa Nakase-Richardson, PhD, MHBS, Faiza Humayun, MD, Marissa McCarthy, MD, Marc Silva, PhD

Discuss novel approaches to using objective measures including actigraphy as a proxy measurement of sleep and the facilitators and barriers to adoption during inpatient rehabilitation. You will also hear studies that address the feasibility of actigraphy, validity as a proxy measure of sleep, and as an outcome metric in treatment studies during inpatient rehabilitation.



Motor Recovery After Stroke: Prediction, Neuroplasticity & Clinical Implications

Sheng Li, MD, PhD, Ning Cao, MD, MS, Pablo Celnik, MD, Wayne Feng, MD, MS

Numerous pharmacological agents, physical modalities and interventions have been utilized for stroke motor rehabilitation programs, but with varying degrees of success. Review recent research on neuroimaging and neurophysiological factors that can influence and predict motor recovery, neuroplasticity and its relations to motor recovery, and ways to apply new research and advanced technologies to promote motor recovery.



Best Practices for Curriculum Development: Creation, Implementation & Evaluation



Margaret Hayes, MD, Morgan Soffler, MD

Discover the pearls and pitfalls of curriculum development with practical tips from creation to evaluation. You will also review Kern's approach to curriculum development using a case-based format, effective evidence-based surveying methods for curriculum evaluation, and more.



Global Rehabilitation: Building Capacity in Low-Resource Countries (Part 1)

Wouter De Groot, MD

The ISPRM-WHO Working Group aims to move the agenda for medical rehabilitation forward in countries where the needs are high. Learn about the current evolutions in global rehabilitation, general principles of health system strengthening, the situation of people living with disabilities in low-resource countries, obstacles and opportunities for capacity building, and more.



Gene-Based Therapy for SMA: Translating Research to Clinical Practice

W. David Arnold, MD, Susan Apkon, MD, Stacy Suskauer, MD

Exciting progress over the last few years has resulted in the clinical approval of new gene-based therapies for Spinal Muscular Atrophy (SMA) including nusinersen and a viral vector-based treatment. Hear experiences initiating and maintaining programs to provide gene-based therapies to patients with SMA, as well as barriers/ challenges faced.



Literature & Research Updates on Pathobiology & Treatments for Osteoarthritis



Jonathan Kirschner, MD, Prakash Jayabalan, MD, PhD, Prathap Jayaram, MD, Rex Ma, MD, MS

Get a summary of recent updates on the current knowledge of osteoarthritis (OA), which will include a review of recent literature and research on the pathobiology. You will also apply this knowledge to better understand current treatments, evidence for these interventions, and the pipeline for future treatment options for OA.



Fellowship Roundtables

Join recent and new fellows from various subspecialties as you discern steps, best practices and answers to your important questions on applications, the interview process and career development.



Medical Leadership: Insights from the Vanguard of Systems-Based Practice

Sam Wu, MD, MA, MPH, MBA

Take advantage of this rare opportunity to meet physiatrists in prominent medical leadership positions around the world and gain insights into how their background in PM&R enhanced their influence and facilitated their advancement as well as their institution's growth. These leaders of the ISPRM and national medical organizations will share real-life experiences and advice that will help you be an effective leader.

 Advancing Management of Multiple Sclerosis: Evidence-Based Rehabilitation

 *Fary Khan, MD, MBBS, Bhasker Amatya, MD, MPH, Mary Galea, PhD*

Multiple sclerosis (MS) is a complex disabling condition with cumulative disabilities that impact outcomes in rehabilitation. Learn about the most recent evidence-based guidelines for treatment, implementation, research models and outcome measurement. You will be presented findings from over 50 scientific papers published in peer reviewed medical journals and the Cochrane Library.

 Diagnosing Entrapment Neuropathies

Michael Andary, MD, MS, Tracy Park, MD, Larry Robinson, MD

Learn the latest electrodiagnostic techniques and strategies for diagnosing common entrapment neuropathies by experts in ulnar neuropathy, lower limb entrapments and carpal tunnel syndrome.

REFRESHMENT BREAK IN THE EXHIBIT HALL
10:30am-11:00am

EDUCATIONAL SESSIONS 2
11:00am-12:00pm

 Fostering Wellness in Trainees: More than Reducing Work Hours

 *Allison Schroeder, MD, Allison Bean, MD, PhD, Kevin Franzese, DO, Charles Michael Taylor II, MD, MS, Monica Verduzco-Gutierrez, MD*

Fostering wellness and preventing burnout have become a priority in graduate medical education, even being added to ACGME's common program requirements. Discuss the impact of burnout on resident performance, how to identify burnout in trainees and colleagues, and evidence-based strategies to combat the issue.

 **Post-Traumatic Headache: A Pain in the Brain?**

Nathan Zasler, MD, Sara Etheredge, PT, DPT, CKTP

Led by an internationally known specialist in brain injury neurorehabilitation, get a hands-on interactive experience that will familiarize you with assessing persons with post-traumatic headache following brain, head and cervical trauma. Several local patients with Post-Traumatic Headache (PTHA) will participate in this workshop as subjects.

 Demystifying Central Fatigue

Qing Mei Wang, MD, PhD, Lisa Wood, PhD, RN, Nicole Mazwi, MD

Discuss the latest research on mechanism and potential biomarkers for central fatigue in neurological disorders and cancer as well as a step-by-step guide for evaluation and treatment based on current recommendations.

 Stroke Rehabilitation: Incorporating New Evidence into Practice & Clinical Trials

 *Joel Stein, MD, Michael O'Dell, MD, Steven Faux, MD, Yun-Hee Kim, MD, PhD, Robert Teasell, MD*

Stroke rehabilitation is in the midst of considerable clinical research, including major clinical trials that have important implications. Review the latest evidence from stroke clinical trials, and place this data into clinical context.

 ACRM Session: Building an Interdisciplinary Team to Advance Rehabilitation Care & Research

 *Richard Riggs, MD, Pamela Roberts, PhD*

Brought to you by our co-hosts, the American Congress of Rehabilitation Medicine (ACRM)! Discover how quality and data from clinical practice can improve care and characterize population-based patient outcomes. You will also get a roadmap of how to transform an operational and/or quality idea into health services research.

 Diagnosing Common Entrapment Syndromes

Larry Robinson, MD, Tom Miller, MD, Faye Chiou Tan, MD,

Uncover the diagnosis, prognosis and new/ emerging surgical treatments of traumatic neuropathies in three talks including traumatic peripheral nerve injuries, plexopathies, and using EMG in multidisciplinary clinics.

 The NIH Research Plan on Rehabilitation: Future Directions for the Field

 *Alison Cernich, PhD, Theresa Hayes Cruz, PhD*

The National Institutes of Health (NIH) has worked to advance their rehabilitation science priorities through funding opportunities, workshops, initiatives and workgroups. Get an overview of the work accomplished, as well as emerging areas that will impact rehabilitation medicine and potential priorities for the future. You will also have the opportunity to give input as the NIH works to revise their research plan for 2021.

 Guías de Práctica Clínica Para Personas con Amputaciones en Colombia

Mario Giraldo-Prieto, MD, Juan Manuel Guzman, MD, Marta Imamura, MD, PhD

Analice los avances en el sistema colombiano de atención a personas con amputaciones, revise las guías que se emplean en Brasil y México, y aporte recomendaciones adicionales para mejorar.

 Non-Invasive Neuromodulation in Rehabilitation

Sheng Li, MD, PhD, Joel Frontera, MD, Radha Korupolu, MD, MS, Argyrios Stampas, MD

Learn about new research on non-invasive, neuromodulation techniques for neuropathic pain, neurogenic bladder, and motor recovery after spinal cord injury (SCI). Presenters will share case studies on BreEstim (deep breathing with peripheral electric stimulation), tibial nerve stimulation, and transcutaneous spinal direct current stimulation (tsDCS).

 Improving Outcomes Across the Care Continuum: A Multi-Institutional Perspective

 *Sarah Welch, DO, Jonathan Bean, MD, MPH, Andrea Chevillie, MD, Erik Hoyer, MD*

Novel models of care that extend the bounds of traditional rehabilitation settings are needed to serve the growing numbers of hospitalized, chronically ill, and geriatric patients. Discover ongoing PM&R led efforts to reconceptualize rehabilitation care across the care continuum.

 Global Rehabilitation: Building Capacity in Low-Resource Countries (Part 2)

Wouter De Groote, MD

The ISPRM-WHO Working Group aims to move the agenda for medical rehabilitation forward in countries where the needs are high. Learn about the current evolutions in global rehabilitation, general principles of health system strengthening, the situation of people living with disabilities in low-resource countries, obstacles and opportunities for capacity building, and more.



PLENARY SPEAKERS:
Alarcos Cieza, PhD, MPH and Charlotte Kiekens, MD
1:30pm-2:30pm

ISPRM ASSEMBLY OF DELEGATES
2:00pm-6:00pm

EDUCATIONAL SESSIONS 3
2:45pm-3:45pm

 Nutrition & TBI: What the Science Says (and Doesn't)

Benjamin Seidel, DO, Yelizaveta Adamova, DO, Neil Jasey, MD, Peter Yonclas, MD

Discuss dietary neuroprotective trends such as the ketogenic diet in the context of traumatic brain injury (TBI). You will walk away with a useful introduction to diet and TBI, as well as practice suggestions.

 Academic Career Paths: Developing the Next Generation of Academicians

Allison Bean, MD, PhD, Walter Frontera, MD, PhD, Chan Gao, MD, PhD, Christopher Garrison, MD, MBA, Dinesh Kumbhare, MD, PhD, Allison Schroeder, MD, Patrick Spicer, MD, PhD, Amy Unwin, MD, Martin Weaver, MD

Learn about the diverse career opportunities in academic medicine for physiatrists: education, research and administration. Leaders in the field will describe different academic paths, helping you understand and prepare for a future career in academia. You will also hear about barriers to academic endeavors, the presenters' own career paths and recommendations, and more.

 Evidence-Based Strategies to Reduce Opioid Use for Pain Management

Douglas Oyler, PharmD

The University of Kentucky Office of Opioid Safety has collaborated with entities across the state to increase responsible use of opioids both locally and statewide. Learn about three initiatives within UK HealthCare that reduced unnecessary opioid use for pain management in trauma population.

 Rehabilitation 2030: Is the Field Ready to be the 21st Century Health Strategy?

Alarcos Cieza, PhD, MPH, Walter Frontera, MD, PhD, Carlotta Kiekens, MD

In February 2017, the World Health Organization brought together over 200 rehabilitation experts from 46 countries to highlight the global unmet need for rehabilitation. Explore the fundamental areas that require urgent response, developing a universal understanding of rehabilitation, the need for a more unified approach by rehabilitation professional groups and subspecialties, and more.

 Teaching in the 21st Century: The Science of Learning
Jeremy Richards, MD

Review the evidence for and application of modern, effective, and interactive teaching strategies for the classroom or in the clinical setting. You'll hear specific studies demonstrating the impact of contemporary teaching techniques and how you can apply evidence-based strategies to your educational activities.

 La Corriente Electromagnética en la Disfunción Pélvica y el Trasplante de Extremidades Superiores

Alberto Esquenazi, MD, Juan Manuel Guzman, MD, Martin Iglesias, MD, Macarena Montoya, MD, Tobias Valdes, MD

Aprenda a utilizar la electromiografía (EMG) en el suelo pélvico y conozca los resultados del primer procedimiento de reimplante de hombro desarticulado del mundo realizado en México.

 Potential Application of Genetic & Biomarkers in Post-Stroke Depression

Zhenxiang Han, MD, PhD, Nicole Mazwi, MD, Qing Mei Wang, MD, PhD

Review current literature of genetic variation, serum and neuroimaging biomarkers in post-stroke depression and discuss the potential application of genetic and biomarkers in post-stroke rehabilitation.

 Current Trends in Rehabilitation Medicine

Amiram Catz, MD, PhD, Dianne Michaeli, MD

 Review the disadvantages of certain trends in rehabilitation medicine and how to cope with them. You will discuss customary concepts concerning the status of longevity, the scarcity of assessing the net effect of rehabilitation, and interpretations of recently published effects of novel therapies for spinal cord recovery.

 AANEM Session: You Make the Call: An Approach to EMG Waveform Recognition Skills

Devon Rubin, MD

Brought to you by our co-hosts, the American Association of Neuromuscular & Electrodiagnostic Medicine (AANEM)! Learn how to identify the firing patterns of different types of EMG waveforms, characteristics of normal and abnormal spontaneous waveforms, normal and abnormal patterns of recruitment of MUAPs, and the significance of the changes in morphology of MUAPs in diseases.

 ACRM Session: Rehabilitation Technology for Advancing Clinical Care & Research

 Deborah Backus, PT, PhD, Michael Jones, PhD

Brought to you by our co-hosts, the American Congress of Rehabilitation Medicine (ACRM)! Learn strategies for the effective, efficient and ethical development and integration of technology into a clinical setting with the ultimate goal to maximize health and function of individuals with significant disabilities.

 ASIA Session: International Standards for Neurological & Autonomic Classification of SCI

Andrei Krassioukov, MD, Ruediger Rupp, PhD

Brought to you by our co-hosts, the American Spinal Cord Injury Association (ASIA)! Learn about the latest changes and additions to the International Standards for Neurological Classification of Spinal Cord Injury (ISNCSCI) and International Standards to document remaining Autonomic Functions after SCI (ISAFSCI).

REFRESHMENT BREAK IN THE EXHIBIT HALL
4:00pm-4:30pm

EDUCATIONAL SESSIONS 4
4:30pm-6:00pm

 Maximizing the Role of Physiatry in U.S. Academic Health Systems

 Heakyung Kim, MD, Mooyeon Oh-Park, MD

The U.S. healthcare system has been going through unprecedented changes in scope and magnitude. Physiatrists are well suited to serve a key role in this healthcare transformation with seamless transition of care and optimizing outcome which matters to the patients. Learn the key points of developing and executing an action plan which aims to integrate physiatry service (including its sub-specialties) within the healthcare system.

 Desarrollo Social y Académico de la Rehabilitación en América Latina

Viviana Crispin, MD, Maria Fernanda Calderón, MD, Solangel Hernandez, MD, Leandro Iuamoto, MD, Melina Longoni, MD, Noelia Montón, MD, Rolando Tijerina Reyes, MD

Explore el programa de estudios de formación de residentes de medicina física y rehabilitación en América Latina, además del desarrollo social y académico de la rehabilitación en las plataformas de comunicación.

 Global Academic Physiatry: Current Status, Future & Needs

 Michael Lee, MD, MHA, CPE, Nneka Ifejika, MD, MPH, Marta Imamura, MD, PhD, Peter Lim, MD, Olivier Remy-Neris, MD, PhD

Understand the current state of academic physiatry in various parts of the world as shared by thought leaders and help to open the venue for collaborative work to advance into the future.

 Precision Neuromodulation for Severe Stroke: Teasing Out the Unknowns

Lumy Sawaki, MD, PhD

Individuals with severe stroke can achieve meaningful functional improvements. Discuss the effects of different neuromodulatory interventions, the role of baseline corticospinal integrity for the trajectory of functional recovery, and potential future directions.

 Collaborating with Industry: How to Get Started

 W. David Arnold, MD, David Binder, MD, MBA, Mary Klein, PhD, Sabrina Paganoni, MD, PhD, John-Ross Rizzo, MD, Ross Zafonte, DO

There is a long tradition of industry support for biomedical research and different models of academia-industry relationships exist. Are you interested in collaborating but worried about navigating the industry-research environment without guidance? Get a framework for initiating successful academic-industry collaborations, including how to identify and navigate the different and diverse models.

 Neuroscience of Visual Arts

Sheryl Katta-Charles, MD, Derek Sebastian, CTRS

 Explore existing data about visual arts production and its therapeutic value, the difficulties of conducting research in holistic topics, and the role of critical thinking in the delivery of medicine using the biopsychosocial model. You will leave inspired to find research questions in your clinical cases and learn a technique to be better teachers, learners and clinicians.

 Certification of PM&R Specialists Around the World

 Gerard Francisco, MD, Carolyn Kinney, MD, Leonard SW Li, MD, Mauro Zampolini, MD

Receive an overview of PM&R certification in the US, Europe and Asia, and exciting developments in the certification process, such as ABPMR's initial certification and maintenance of certification. In addition, learn research on evidence of process validity, association with residency program standards, and value throughout a physician's career.

 Approaches to Building Research Capacity in PM&R

Michael Boninger, MD, David Morgenroth, MD, Leslie Morse, DO, Stefano Negrini, MD, Moon Suk Bang, MD, PhD, John Whyte, MD, PhD

Want to become a more successful researcher? Build research capacity by learning about the Rehabilitation Medicine Scientist Training Program (RMSTP) and international speaker perspectives from Asia and Europe.

 Supporting Lifelong Physical Activity Among Individuals with Disabilities

Mark Peterson, PhD, MS, Walter Frontera, MD, PhD, Abderrazak Hajjioui, MD, Uma Pandiyan, MD, Yetsa Tuakli-Wosornu, MD, MPH

Aging adults with disabilities need regular physical activity and physical interventions, and members of ISPRM's Task Force on Physical Activity for Persons with Disabilities (PAPD) research and ongoing clinical trial evidence to prove it. You will hear about chronic disease burden in persons with disabilities through the lifespan and interventions that may lessen the health burden of aging.

 Advanced Neuroprostheses for Spinal Cord Injury

P. Hunter Peckham, PhD

Uncover the physiological basis of the operation of implanted neuroprostheses, the clinical outcomes of neuroprostheses for restoring various functions for people with spinal cord injuries, and approaches for the unique challenges of clinical deployment for orphan populations.

 Geriatric Rehabilitation: What is Really Working?

Eleftheria Antoniadou, MD, PhD, Paolo Campodaglio, MD, Marco Franceschini, MD, Walter Frontera, MD, PhD, Francesca Gimigliano, MD, PhD, Der-Sheng Han, MD, PhD, Juan Manuel Guzman, MD, Mooyeon Oh-Park, MD

Hear from a team of experts in geriatric rehabilitation on the best evidence for important topics such as sarcopenia, falls, frailty, osteoporosis, delirium, and obesity.

POSTER GALLERY RECEPTION
6:00pm-7:00pm

ISPRM 2020 SIGNATURE NETWORKING EVENT
7:00pm-10:00pm
SeaWorld Orlando



EDUCATIONAL SESSIONS 1
8:00am-9:00am

Issues & Controversies in Managing the Young Athlete

William Micheo, MD, Gerardo Miranda-Comas, MD, Walter Frontera, MD, PhD, Fernando Sepulveda, MD

Join us for lectures and case discussions with practical applications that will result in a better understanding of current and controversial topics in Pediatric Sports Medicine, including risks of early sports specialization, the role of injury prevention programs, the benefits and timing of strengthening programs, and more.

Using Telemedicine to Increase Accessible & Affordable Rehabilitation Medicine

Marcalee Alexander, MD, Jaye Hefner, MD, Donna Nimec, MD, Ran Polak, MD, Jeffrey Schneider, MD, Adam Tenforde, MD

Develop your knowledge on novel use cases of telemedicine, including methods to effectively utilize in educational content and clinics to enhance patient care. You'll hear the role of telemedicine in addressing specific conditions, case-based examples and how to incorporate these concepts into practice.

Youth Athletes with Intellectual Disability: Clinical Considerations & Resources

Priya Chandan, MD, MPH, Matthew Adamkin, MD, Mary Dubon, MD

Help us create more inclusion for youth with intellectual disabilities (ID) in sports. Learn about the sports competition programs and health initiatives offered by Special Olympics International (SOI), and clinical considerations for youth athletes with ID.

Translating Neuroplasticity Principles into Clinical Practice

Mary Galea, PhD, Fary Khan, MD, MBBS

Get practical examples of how the principles of neuroplasticity can be applied in the rehabilitation setting through improved clinical reasoning, system re-design, use of inexpensive technology, and provision of an enriched environment.

Espasticidad: 10 Años de Experiencia en América Latina

Giovana Barragan, MD, Gustavo Bocca, MD, Alfredo Iglesias, MD

Analice el manejo de la espasticidad en niños y adultos, así como la rehabilitación pulmonar en pacientes espásticos.

Different Dimensions of Musculoskeletal Pain Pathophysiology

Aysegul Ketenci, MD, Dilsad Sindel, MD, Gulseren Akyuz, MD, Deniz Evcik, MD, Nur Kesiktas, MD, PhD, Aydan Oral, MD

Join the Turkish Society of PMR for a discussion about different mechanisms of chronic musculoskeletal pain in the light of current literature.

Neuroplasticity & Neurophysiological Biomarkers in Rehabilitation

Marcel Simis, MD, PhD, Linamara Battistella, MD, PhD, Felipe Fregni, MD, PhD, MPH, Marta Imamura, MD, PhD

Learn about the neuroplastic mechanisms involved in chronic pain and motor, sensorial and cognitive rehabilitation. In addition, you will explore the potential use of Transcranial Magnetic Stimulation (TMS), Functional Near-infrared Spectroscopy (fNIRS), Electroencephalography (EEG) and Magnetic Resonance Imaging (MRI) as neurophysiological biomarkers.

EDUCATIONAL SESSIONS 2
9:15am-10:15am

A New Era of Ultrasound-Guided Microsurgery

Joline Brandenburg, MD, A. Jason DeLuigi, DO, Andrew Gordon, MD, PHD, Kentaro Onishi, DO

Review ultrasound elastography technologies and use in measuring muscle properties, the pros and cons of orthopedic surgery (from open procedure to arthroscopy) and using ultrasound to guide micro-invasive or micro-surgical outpatient procedures performed using a local anesthetic.

Current State of Undergraduate Medical Education in PM&R

Marta Imamura, MD, PhD, Leandro luamoto, MD

Disability education is important in medical schools, yet many health professionals lack training to effectively deal with and treat patients with disabilities. Join us as we review the competencies in PM&R present in medical school curriculums, the current status of PM&R teaching at numerous universities, the main barriers to requiring PM&R education, and possible solutions and strategies to overcome those barriers.

Increasing Medical Student Interest in PM&R

Marta Imamura, MD, PhD, Margarida Miyazaki, MD, Katia Lina Miyahara, MD, Mariane Tateishi, MD, Elizabete Tsubomi Saito Guiotoku, MD

Rehabilitation needs are expected to increase with a graying population, widespread dissemination of noncommunicable diseases, and persistent injuries caused by road traffic accidents, violence and conflict. Discover different and complementary strategies you can use when reaching out to undergraduate medical students to raise awareness about the specialty and increase interest in the field.

Gait Analysis & Muscle Strength Assessment in Clinical Practice

Alberto Esquenazi, MD, Daniela Garcia, MD, Daniel Moon, MD, Masahiko Mukaino, MD

Explore the value of instrumented assessment of the upper limb muscle strength and movement during gait as a clinical tool. Experts from around the world will coalesce to share clinical applications of the techniques as used in various scenarios.

Cochrane Rehabilitation: The Way Forward to Strengthen Evidence

Charlotte Kiekens, MD, Stefano Negrini, MD, Francesca Gimigliano, MD, PhD, Antti Malmivaara, MD, PhD, Thorsten Meyer, PhD

Cochrane Rehabilitation's goal is to allow decision-makers to act according to the best and most appropriate evidence in the field of rehabilitation. Discover how Cochrane Rehabilitation conveys best evidence to rehabilitation professionals through various channels and projects, and how it strives to improve the methodology by which evidence for rehabilitation is produced.

ISPRM's Collaboration with the World Health Organization

Charlotte Kiekens, MD, Wouter De Groote, MD, Christoph Gutenbrunner, MD, PhD, Luz Helena Lugo, MD, Masahiko Mukaino, MD, PhD, Christine Thyrian

ISPRM has had an official relationship with the WHO since 1999, contributing to WHO activities and participating in WHO meetings and collaborations. Learn how we're working to strengthen rehabilitation and the specialty of PRM across the world (especially those around the "Rehabilitation 2030" initiative), standardize rehabilitation reporting, and actions for the future from the Chairs of the committee and working groups.

International Spinal Cord Injury Survey Results: A Study in 20+ Countries

Gerold Stucki, MD, MSc, Jerome Bickenbach, PhD, Mohit Arora, PhD

The first wave of data from the International Spinal Cord Injury (InSCI) community survey has informed important papers on the potential of inter-country comparisons as well as basic functioning and SCI. Discover the application of graphical modelling of the lived experience of SCI, the determinants of functional independence using SCIM subscales across the 22 participating InSCI countries, and a first look at comparing the social response to the service and support needs of people with SCI.

Back to Basics: History & Physical Exam in Sports & Musculoskeletal Medicine

William Micheo, MD, Gerardo Miranda-Comas, MD, Belmarie Rodriguez-Santiago, MD, Fernando Sepulveda, MD

Discover key findings of the history and physical examination in patients that present with shoulder pain secondary to overhead sports activity, knee pain associated to running and pivoting sports, and low back pain resulting from sports and exercise activities that require trunk rotation, repeated flexion and extension.

Rehabilitation Medicine Scientist Training Program (RMSTP) Scientific Paper Presentations

10:30am-11:30am



PLENARY SPEAKER:
TO BE ANNOUNCED!
Sidney Licht Lecture &
Closing Ceremony
11:30am-1:00pm

Concurrent Programs

These signature AAP programs will have workshops and sessions designed for this year's participants.

- **Program for Academic Leadership (PAL)** – Leadership training directed by William Bockenek, MD, CPE. Visit physiatry.org/PAL to learn more.
- **Rehabilitation Medicine Scientist Training Program (RMSTP)** – Research training directed by Michael Boninger, MD and John Whyte, MD, PhD. Visit physiatry.org/RMSTP to get involved.

PUSHING THE BOUNDARIES OF REHABILITATION

Penn Physical Medicine and Rehabilitation is delighted to be part of the Association of Academic Physiatrists meeting in Orlando, Florida.

As the first program of its kind in the nation, Penn PM&R has pioneered some of the most essential treatments and technological advancements for rehabilitation medicine and continues to optimize patient outcomes, advance research and elevate PM&R education.

- Our neurorehabilitation team at Penn led the assessment and rehabilitation of US government personnel stationed in Cuba with unexplained neurological symptoms.

(Verma R, Swanson RL, Parker D, Ould Ismail AA, Shinohara RT, Alappatt JA, Doshi J, Davatzikos C, Gallaway M, Duda D, Chen HI, Kim JJ, Gur RC, Wolf RL, Grady MS, Hampton S, Diaz-Arrastia R, Smith DH.: Neuroimaging Findings in US Government Personnel With Possible Exposure to Directional Phenomena in Havana, Cuba. JAMA 23;322(4): 336-347, Jul 2019)

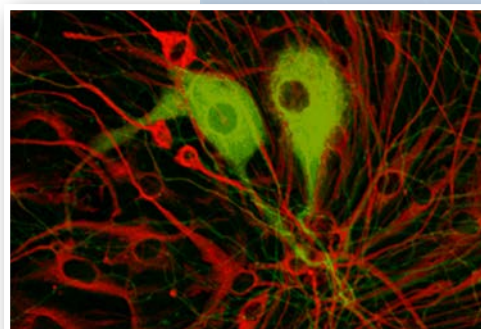
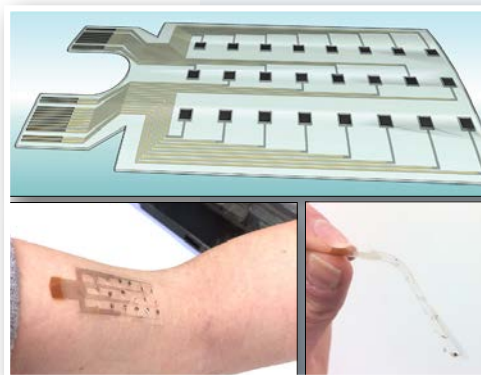
- Our new nanotechnology initiative in PM&R in partnership with the Penn Singh Center holds great promise for new rehabilitation technologies.

- Penn Medicine has been named among the top five employers in healthcare on Forbes magazine's "America's Best Employers for Women" list.

There are exciting things happening at Penn PM&R. To learn more about the ways we are advancing care, research and academics, visit PennMedicine.org/PMR.



TIMOTHY R. DILLINGHAM, MD, MS
CHAIR, DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION
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Administration Workshops

Academic administration can be one of the most rewarding roles in physiatry, but also the most challenging. These unique sessions will help you develop the right skills, resources and mindset to succeed.



Administrative Directors Sessions

THURSDAY, MARCH 5, 2020

1:00pm-2:00pm

Building and Maintenance: Physician Reputation
Kirk Roden, MBA, FACHE

2:00pm-3:00pm

CPT Billing Codes

3:00pm-4:00pm

Developing Mid-Level Providers in Physiatry

7:30pm-10:00pm

Joint Chair Council & Administrative Directors Session & Reception

FRIDAY, MARCH 6, 2020

11:00am-12:00pm

Evaluating Alternative Medicine Services
Alex Moroz, MD, Monica Tietsworth, MBA

2:45pm-3:45pm

Profitable Clinical Trial Business
Steve Tomsic, MBA

4:30pm-5:30pm

Administrative Directors Business Meeting

SATURDAY, MARCH 7, 2020

11:00am-12:00pm

Employee Contracting: Getting the Most Out of Your Job Offer

2:45pm-3:45pm

Physician Wellness Programs
Kirk Roden, MBA, FACHE

SUNDAY, MARCH 8, 2020

9:15am-10:15am

Physiatrists & the Service Line: Delivery as a Vertical Integration
Farha Ikramuddin, MD

Program Coordinators Sessions

THURSDAY, MARCH 5, 2020

1:00pm-1:30pm

Welcome & Introductions

1:30pm-2:30pm

ISPRM: How We Are Connected
Walter Frontera, MD, PhD

2:45pm-3:45pm

ACGME Accreditation Data System (ADS) Update
Wendy Helkowski, MD

5:30pm-7:00pm

Fellowship & Job Fair

FRIDAY, MARCH 6, 2020

Icebreaker

Nicole Prioleau

Wellness

Marni Hillinger, MD

Microaggression/ Professionalism
Jennifer Zumsteg, MD

Interview Techniques
Shannon Larisch

SATURDAY, MARCH 7, 2020

Coordinators 101 & 102

Cynthia Volack, C-TAGME, Kara Dyer, C-TAGME

TAGME Update

Cynthia Volack, C-TAGME

PM&R Student Interest Groups

Self-Study Panel

Leigh Austin, Terri Isbell, C-TAGME, Kimberly Garza

"International Faces of Disability" Photo Contest

Showcase your creativity and passion for giving back with this signature activity of the ISPRM World Congress. We are looking for unique photos that depict the international faces of disability:

- Individuals with disability around the world
- Physiatrists treating their patients around the world.

The entry fee is \$15 per photo and photos must be submitted by email to panderson@foundationforpmr.org between November 1, 2019 and March 8, 2020. *Submissions must not be copyright protected by anyone except the entrant and must include waivers and photo rights (if applicable). Entries may be used in future promotional materials of the AAP and Foundation for PM&R.*

Two winners will be selected by an international panel of physiatrists and honored at the ISPRM Closing Ceremony on Monday, March 9, 2020. The winners will receive free registration to the ISPRM 2021 in Lisbon, Portugal! Proceeds from this contest benefit the ISPRM Disaster Relief Fund and the Foundation for PM&R.



Rehab 5K Run/Walk & Roll Residency Program Challenge

**Saturday, March 7, 2020, 6:30am-7:30am
At the Rosen Shingle Creek**

Bring your running shoes for this early-morning fundraiser for physiatric research through the Foundation for PM&R! Join in the fun or cheer on your residency program as they compete for prizes in Fastest Runner, Largest Team and Most Team Spirit. Sign up when you register for ISPRM 2020 and take advantage of our early bird rate of \$25 (\$15 for students and residents).

For more information or to register for the Residency Program Challenge, contact Phyllis Anderson at panderson@foundationforpmr.org or call +1 (847) 737-6062.



The University of Miami Miller School of Medicine-UHealth is home to some of the brightest minds in the world. At the U, we are committed to attracting and retaining a talented workforce to support our common purpose of transforming lives through teaching, research, and service. Our Faculty teach students who represent the future of medicine. Our researchers are discovering breakthrough patient treatments. As an academic medical center, we are proud to serve South Florida, Latin America and the Caribbean. Our physicians represent more than 100 specialties and subspecialties, and have more than one million patient encounters each year.

The Department of Physical Medicine and Rehabilitation at the University of Miami Leonard M. Miller School of Medicine seeks physiatrists who are board admissible or board certified in Physical Medicine and Rehabilitation for several positions as an Assistant or Associate Professor. The ideal candidate will provide clinical services and will also participate in medical student, PM&R resident teaching and research activities; physician scientists are welcomed. Duties will include inpatient service coverage and outpatient clinics and supervising residents and medical students. Salary will be commensurate with training and experience. Compensation includes an excellent fringe benefits package, including dependent tuition benefits.

About Us: A private research university with more than 16,000 students from around the world, the University of Miami is a vibrant and diverse academic community focused on teaching and learning, the discovery of new knowledge, and service to the South Florida region and beyond. The University comprises 11 schools and colleges serving undergraduate and graduate students in more than 180 majors and programs. In 2016, U.S. News & World Report ranked UM No. 44 among the top national universities in the country in its "Best Colleges" listings. U.S. News also cites several of its programs in "America's Best Graduate Schools." Established in 1925 during the region's famous real estate boom, UM is a major research university engaged in more than \$324 million in research and sponsored program expenditures annually. While the majority of this work is housed at the Miller School of Medicine, investigators conduct hundreds of studies in other areas, including marine science, engineering, education, and psychology.

Interested individuals should submit a letter of interest and curriculum vitae to:

David R. Gater, Jr., MD, PhD, MS, Professor and Chair
Department of Physical Medicine & Rehabilitation
Medical Director of Rehabilitation, Jackson Memorial Hospital
Co-Director, NIDILRR South Florida Spinal Cord Injury Model System
University of Miami | Leonard M. Miller School of Medicine
1120 NW 14th Street, CRC 958 | Miami, FL 33136
Phone: (305) 243-9516 | Fax: (305) 243-4650
Email: dgater@miami.edu
Website: <http://umpmr.med.miami.edu>

The University of Miami is an Equal Opportunity Employer - Females/Minorities/Protected Veterans/Individuals with Disabilities are encouraged to apply. Applicants and employees are protected from discrimination based on certain categories protected by Federal law.

Don't Forget!

Add This Special Event to Your Registration

Join us for unexpected encounters and an unbelievable event!

ISPRM 2020 Signature Networking Event at

SeaWorld Orlando

Sunday, March 8, 2020, 7:00pm-10:00pm
\$130 per person

Every year, the ISPRM World Congress features a phenomenal night out — and this year's event will not disappoint. **Join your AAP and ISPRM families as we go behind-the-scenes at SeaWorld Orlando!**

Get up close and personal with SeaWorld's animals as you indulge in cocktails and dinner overlooking a lushly landscaped garden. Following dinner, we'll enjoy a private Sea Lion and Otter Show. Take in this full sensory experience as you connect with your fellow attendees!

Tickets to this Signature Networking Event are \$130 for attendees and non-attendee guests, and includes food, drinks and transportation.



Looking for Exhibitor & Sponsor Registration?



The world's most influential leaders and rising stars in physical medicine and rehabilitation (PM&R) will come together for ISPRM 2020. Showcase your world-class organization among this captivated audience who are eager to learn, network and collaborate.

Learn more and secure now at www.physiatry.org/SponsorExhibit or by contacting Bernadette Rensing, the AAP's External Affairs Director, at brensing@physiatry.org.

Registration

It's easy to see why you need to be at ISPRM 2020.

Three Ways to Register



VISIT: www.physiatry.org/Reg2020



MAIL FORM & CHECK (in US dollars):
10461 Mill Run Circle, Suite 730, Owings Mills, MD 21117



CALL: +1 (410) 654-1000 (credit card payments only)



Register by December 10, 2019 to save up to \$150

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	AAP & ISPRM Members	Non-Members	AAP & ISPRM Members	Non-Members
Physician (US & International)	☐ \$695	☐ \$995	☐ \$845	☐ \$1,145
Resident/ Fellow	☐ \$440	☐ \$590	☐ \$660	☐ \$810
Medical Student	☐ \$225	☐ \$225	☐ \$225	☐ \$225
Health Pro/ Researcher/ International (Low & Middle Income Countries)	☐ \$475	☐ \$540	☐ \$625	☐ \$690
Administrative Director/ Program Coordinator	☐ \$415	☐ \$565	☐ \$515	☐ \$665
Emeritus	☐ \$225	☐ \$225	☐ \$225	☐ \$225
One-Day ☐ Thurs ☐ Fri ☐ Sat	☐ \$300	☐ \$450	☐ \$475	☐ \$625

Pre-Conference Workshops	AAP & ISPRM Members	Non-Members
Musculoskeletal Ultrasound in PM&R: The Certified Basics	☐ \$500	☐ \$700
Residency & Fellowship Program Directors (RFPD) Workshop	☐ \$250	☐ \$400
Spasticity Management: Where Are We Now?	☐ \$250	☐ \$400
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Developing Quality & Process Improvement Projects	☐ \$99	☐ \$149
Residents, Fellows & Medical Students Half-Day Workshop	☐ \$0	☐ \$0

ADD-ONS

ISPRM 2020 Signature Networking Event

Sunday, March 8, 2020 at

SeaWorld Orlando

☐ \$130 per person



Rehab 5K Run, Walk & Roll

Saturday, March 7, 2020

☐ \$25 - Physician

☐ \$15 - Medical Student, Resident & Fellow

Guest Package

☐ \$215 per person

Registration Total:

\$ _____

Your Badge Information



Please include name, degree(s), institution, city and state exactly as you would like it to appear on your badge.

Name (First, MI, Last): _____
Degree(s): _____
Institution: _____
Address: _____
City: _____ State/ Province: _____ Zip: _____
Work Phone: _____
Email: _____
Emergency Contact: _____ Phone: _____

☐ Check if you or a guest require special assistance. Please explain: _____

Dietary Needs: ☐ Kosher ☐ Allergy (please explain) _____

*Guest Name/s: _____

*Must purchase guest badge

Registration Information



Member: This category is designed for ISPRM and AAP members who are not suspended or expired, or who are purchasing a membership at the time of registration. Please check that all memberships are current before sending in registration forms. If you are unsure of your membership status or category, please call 410-654-1000 or email meetings@physiatry.org. If registering online, log in when registering to receive your AAP member discount. ISPRM members will be provided a promo code from the ISPRM office.

Resident/ Fellow/ Medical Student: These packages are for residents, fellows and medical students only. In addition to full ISPRM 2020 registration, you will receive registration to the Resident & Fellow Networking Night. Registration to the half-day workshop on Wednesday, March 4, 2020 is free, but registration is required.

Guest: Our guest package includes all attendee meals and breaks, and entrance to the plenary sessions and Exhibit Hall. This package cannot be used for a colleague or doctor – it is intended for a guest, spouse or family members only. Participants and guests will not be allowed into the main hall without a name badge.

Your Registration Includes: Access to plenary and educational sessions, select meals and coffee breaks, networking events (including the Welcome Reception & Opening Ceremony, Poster Gallery Receptions and Resident & Fellow Networking Night), Closing Ceremony and the Exhibit Hall! Pre-conferences and the Signature Networking Event at SeaWorld have additional fees, so be sure to add them to your total when registering.

A Few Things to Note



- Log in to your AAP member account or register as an ISPRM member with your promo code to receive member discounts. Full payment is due at the time of registration.
- Full payment is due at the time of registration.
- Online registrations receive immediate confirmation; mailed registrations will be sent a confirmation within 21 days of receipt. If you do not receive a confirmation within 21 days, please call the AAP's office at +1 (410) 654-1000.
- All information must be accurately provided. Any registrations with information left blank will not be processed.
- Cancellations and full refund requests must be received in writing by December 30, 2019. A \$50 administrative fee will be deducted for active members and \$100 will be deducted for non-members. Forfeited fees may not be applied to other AAP programs.
- No fees will be refunded after December 30, 2019. Substitutions will be accepted if the request is made in writing via meetings@physiatry.org by January 24, 2020.
- Professional photographers and videographers will be documenting the conference events. By registering for ISPRM 2020, you give permission to the AAP and ISPRM to use all photos and videos with your likeness.

Venue & Hotel Information



Book Your Room Now!

ISPRM 2020 will be hosted at the Rosen Shingle Creek, conveniently minutes away from the Orlando International Airport, Universal Orlando Resort™, Walt Disney World® Resort, SeaWorld® Orlando, award-winning golf courses and more! Discounted room rates of \$219/night are reserved for attendees. You must book your room early to guarantee availability.

You may also stay at the Rosen Inn at Pointe Orlando at a discounted room rate of \$129/night. Shuttles to and from our event venue will be provided daily.

Complimentary WiFi and access to a fitness center are included with both hotel reservations.

To book a room at the Rosen Shingle Creek, visit www.physiatry.org/RosenShingle.
To book a room at the Rosen Inn at Pointe Orlando, visit www.physiatry.org/RosenInn.



Rates cannot be changed for guests who do not identify their affiliation at the time their reservation is made. All rooms are subject to availability. Once the block is full, no additional rooms will be available, so please book early. Thank you, in advance, for staying in rooms at our conference hotels as it helps the AAP offset the costs of meeting space and other costs associated with the meeting (from tables and chairs to power, air/heat and lighting)! Please help us keep registration fees down by making your reservation through our dedicated link or calling the hotel and requesting the AAP discounted rate!

The AAP/ ISPRM do not use a third-party housing company nor will anyone from the AAP/ ISPRM contact you to reserve your room. Anyone claiming to represent the AAP or ISPRM requesting to reserve your room or offer you a lower prize is fraudulent and should be reported.

THANK YOU to our Organizing Committees

ISPRM 2020 wouldn't be possible without the tireless efforts of these AAP and ISPRM teams.

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