Welcome to ISPRM 2020, the International Physiatry Conference!

ISPRM 2020
14th ISPRM World Congress and
53rd AAP Annual Meeting
MARCH 4-9, 2020
ROSEN SHINGLE CREEK
ORLANDO, FLORIDA, USA
2020 FINAL PROGRAM

Connecting People, Changing the World

CONNECT, DISCOVER, SHARE: #ISPRM2020  PHYSIATRY.ORG/2020

THANK YOU TO OUR CO-HOSTS!
Welcome to ISPRM 2020, the joint International Society of Physical & Rehabilitation Medicine (ISPRM) World Congress and Association of Academic Physiatrists (AAP) Annual Meeting.

TABLE OF CONTENTS
General Information ................................................... 5
Schedule at a Glance ................................................... 8
Plenary Speakers ......................................................... 11
Pre-Conference Workshops .......................................... 14
DAILY SCHEDULES
Friday ........................................................................ 23
Saturday ..................................................................... 28
Sunday ....................................................................... 33
Monday ....................................................................... 41
Paper & Poster Presentations ........................................ 46-48
Networking Activities ................................................ 50
Award Winners .......................................................... 55
Activities in the Exhibit Hall ......................................... 58
Sponsored Events ....................................................... 61
Exhibitor Guide .......................................................... 64-69
2021 Save the Dates .................................................... 71-72
AAP Academic Partners .............................................. 73
Rosen Shingle Creek Map ............................................. 74
Our Sponsors ............................................................. 77
REGISTRATION HOURS
Rosen Shingle Creek, Gatlin C .....................................
Wednesday, March 4, 2020 ........................................ 7:00am-4:00pm
Thursday, March 5, 2020 ........................................... 7:00am-4:00pm
Friday, March 6, 2020 ................................................ 7:00am-4:00pm
Saturday, March 7, 2020 ........................................... 7:00am-4:00pm
Sunday, March 8, 2020 .............................................. 7:00am-4:00pm
Monday, March 9, 2020 ............................................. 7:00am-10:00am
EXHIBIT HALL ACTIVITIES
Rosen Shingle Creek, Gatlin C .....................................
Find even more activities on pages 58!
FRIDAY, MARCH 6, 2020
Refreshment Break ....................................................... 10:15am-11:00am
Exhibitor Meet & Greet ................................................ 12:00pm-1:30pm
Refreshment Break ....................................................... 3:45pm-4:30pm
Opening Ceremony & President’s Welcome Reception .......................... 7:00pm-9:00pm
SATURDAY, MARCH 7, 2020
Refreshment Break ....................................................... 10:15am-11:00am
Complimentary Lunch ............................................... 12:00pm-1:30pm
Refreshment Break ....................................................... 3:45pm-4:30pm
SUNDAY, MARCH 8, 2020
Refreshment Break ....................................................... 10:15am-11:00am
Exhibitor Meet & Greet ................................................ 12:00pm-1:30pm
Refreshment Break ....................................................... 4:15pm-4:30pm

SPONSORED ACTIVITIES
Enjoy complimentary food and beverages at our sponsored events, including Lunch & Learns, Happy Hour Symposiums and Demonstration Pods. Find details on page 58 and 61!

GET SOCIAL AT ISPRM 2020!
There is a vibrant online community waiting to connect with you! Use the hashtag #ISPRM2020 to see a live feed of ISPRM 2020 and attendee updates, build relationships and share your memories.

DOWNLOAD THE EVENT APP
Get every session, event and update from ISPRM 2020 delivered to your device. You’ll also be able to customize your daily schedule, access course handouts, connect with attendees and more. Search for ISPRM 2020 or AAP Meetings in your app store to download the ‘AAP Meetings’ App. Aren’t sure of your login information? Check the back of your badge or visit the Registration Desk and we’ll help get you connected!

Welcome to Orlando and ISPRM 2020!
It is our pleasure to welcome you to ISPRM 2020, the international destination for physiatry professionals at every level of their career. As you made your way to registration, you may have noticed name tags listing countries from near and far. We’re proud to share that you are standing here on this peninsula with leaders and rising stars from 75 countries — from Argentina to Vietnam and every letter in between. From early morning into the evening, we have six days of jam-packed opportunities to learn, connect and share. We’re sure that this engaged community and preeminent program will inspire you personally and professionally for years to come.

DON’T MISS THE FOLLOWING EVENTS WE HAVE PLANNED FOR YOU:
• 75 compelling educational sessions presented by physiatry and rehabilitation experts from all over the globe
• Plenary sessions from 11 renowned scientists and academicians (see the full lineup on page 11)
• Our signature networking event at SeaWorld Orlando, a phenomenal night out where we will indulge in dinner, a world famous Orca Experience Show, and cocktails while visiting the Wild Arctic Habitat (stop by registration if you haven’t purchased your ticket!)
• We have more activities in the exhibit hall than ever! Meet our 83 exhibitors showcasing products, services and societies while you enjoy meals, book signings, demonstrations and even a few animal sightings
• Visit with leading researchers at our three poster gallery receptions this year showcasing 1,600 global innovations in physiatry
• 37 scientific paper presentations, including those from the AAP’s Rehabilitation Medicine Scientist Training Program (RMSTP)

Soak it all in and be sure to explore the world-class entertainment, theme parks, restaurants and outdoor activities you’ll find in Orlando. Finally, we wish to acknowledge the outstanding and innovative efforts of the members of the AAP Program Committee, ISPRM Congress Scientific Committee and the AAP’s small but mighty staff.

John Chae, MD, ME
Congress President, ISPRM 2020
Gerard Francisco, MD
Chair, ISPRM Congress Scientific Committee
Mooyon Oh-Park, MD, MS
Chair, AAP Program Committee
Congress President, ISPRM
Chair and Professor of PM&R, Case Western Reserve University
Director, MetroHealth Rehabilitation Institute
Professor of PM&R and Neurology, Albert Einstein College of Medicine
SVP & Chief Medical Officer, Burke Rehabilitation Hospital

Director, UT Health
Director, TIRR Memorial Hermann Hospital
General Information

Locations
All workshops and sessions will be held at the Rosen Shingle Creek (9939 Universal Blvd, Orlando, Florida 32819). The Resident/ Fellow Networking Event on Saturday, March 7, 2020 will be held at Topgolf Orlando. The ISPRM 2020 Networking Event on Sunday, March 8, 2020 will be held at SeaWorld Orlando.

Registration
The Registration Desk is located in front of the Gatlin ballrooms at the Rosen Shingle Creek. All attendees must check in during the designated hours, which you can find on the inside front cover of this program.

Transportation To & From Hotels & Special Events
Free shuttles will be provided daily to and from the Rosen Inn at Pointe Orlando and the Rosen Plaza Hotel to the Rosen Shingle Creek. In addition, free shuttles will be provided to and from these signature networking events:
- Resident/ Fellow Networking Event at Topgolf – Shuttles leave from the Rosen Shingle Creek between 7:00pm-7:20pm, and return immediately following the event
- ISPRM 2020 Networking Event at SeaWorld – Shuttles leave from the Rosen Shingle Creek between 7:15pm–7:30pm, and return immediately following the event

Additional Fees
Throughout ISPRM 2020, there are events and sessions which may require additional fees to attend. To help you identify these sessions, look for this icon throughout the event program:

Continuing Medical Education Credits (CMEs)
You can earn up to 32.0 AMA PRA Category 1 Credits™ ISPRM 2020 CMEs and evaluations will be accepted online only. Visit Physiatry.org/CME2020 during or after the meeting to complete evaluations, claim education credit and print your CME certificate. CME credits claimed by AAP members will be electronically submitted to the American Board of Physical Medicine and Rehabilitation (ABPMR) on June 26, 2020. There will be a $25 fee for participants who claim their CMEs after June 26, 2020.

Photo & Video Disclosure
The AAP intends to take photos and video of this event for use in AAP and ISPRM news and promotional materials, in print, electronic and other media, including the website. By participating in this event, you grant the AAP and ISPRM the right to use any image, photograph, voice or likeness without limitation in its promotional materials and publicity efforts without compensation. All media becomes the property of the AAP and ISPRM. Media may be displayed, distributed or used by the AAP and ISPRM for any purpose.

Seating Policy
All educational sessions are open seating, which means they are filled on a first-come, first-served basis. We did our best to match room size with anticipated demand, but we encourage you to arrive at meeting rooms as early as possible. Capacity limits are strictly enforced by hotel management and fire marshals.

Anti-Harassment Policy
The AAP and ISPRM are dedicated to providing a harassment-free experience for everyone at its conferences. Harassment of any form will not be tolerated at ISPRM 2020. If you experience harassment or discrimination at ISPRM 2020, please email report@physiatry.org. Violators of this Anti-Harassment Policy may be sanctioned or expelled from the event at the discretion of ISPRM 2020 event organizers.

Nursing & Prayer Rooms
We are proud to offer designated areas for nursing moms and prayer/meditation. If interested, please ask the registration desk for the room locations.

Visit booth 202
PLEASE JOIN US FOR AN INTERACTIVE PRESENTATION
Sponsored by Ipsen Biopharmaceuticals, Inc.

Learn About a Treatment Option for Pediatric Spasticity

Friday, March 6, 2020 • 12:00 PM - 1:00 PM

Location:
Gatlin A1
Rosen Shingle Creek Orlando
American Academy of Pediatrics/
International Society of Physical and
Rehabilitation Medicine

Speaker:
Sally Evans, MD
Pediatric Physical Medicine and
Rehabilitation Children's Hospital of Philadelphia (CHOP)

Visit Booth
212

ENJOY YOUR TIME IN
“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 theme parks and entertainment, you’ll have an unforgettable time with your peers, your family or on a solo adventure.

PLAN YOUR TRIP AT
www.VisitOrlando.com
Schedule at a Glance

WEDNESDAY, MARCH 4

7:00am - 4:00pm  Registration Open
6  8:00am - 5:00pm  Pre-Conference Workshop:
   • Musculoskeletal Ultrasound in PM&R: The Certified Basics
6  10:00am - 7:30pm  Residency & Fellowship Program Directors (RFPD) & Program Coordinators Workshop

THURSDAY, MARCH 5

7:00am - 4:00pm  Registration Open
6  8:00am - 12:00pm  Medical Students, Residents & Fellows Workshop
6  8:00am - 5:00pm  Pre-Conference Workshops:
   • Musculoskeletal Ultrasound in PM&R: The Certified Basics
   • Neurotomy & Tenotomy: Revolutionizing Spasticity Care through Neuro-Orthopedics
   • Cochlear Rehabilitation: Evidence Examine & Deploy (CREED)
   • Cancer Rehabilitation: Global Perspectives for Delivery of Care
   • Moving the Needle on Myofascial Pain Syndrome
   • Managing Swallowing Dysfunction & Dysphagia
   • Brain & Peripheral Nerve Stimulation for Post-Stroke Recovery
   • Developing Quality & Process Improvement Projects
6  10:00am - 4:00pm  Administrative Director & Program Coordinator Sessions
6  5:30pm - 7:00pm  Fellowship & Job Fair

FRIDAY, MARCH 6

7:00am - 4:00pm  Registration Open
6  8:00am - 6:00pm  Educational Sessions
6  9:15am - 10:15am  Plenary Presentations: Thomas Rando, MD, PhD & Quinn Capers, IV, MD
6  10:15am - 11:00am  Refreshment Break
6  12:00pm - 1:30pm  Exhibitor Meet-and-Greet
6  1:30pm - 2:30pm  Plenary Presentation: Victor Dzau, MD & Alarcos Cieza, PhD, MPH
6  3:45pm - 4:30pm  Refreshment Break
6  6:00pm - 7:00pm  Poster Gallery Reception
6  7:00pm - 9:00pm  Opening Ceremony & President’s Welcome Reception

SATURDAY, MARCH 7

6:30am - 7:30am  Rehab 5K Run, Walk & Roll
6  7:00am - 4:00pm  Registration Open
6  8:00am - 6:00pm  Educational Sessions
6  9:15am - 10:15am  Plenary Presentations: Amy Wagner, MD & Peter Agre, MD
6  10:15am - 11:00am  Refreshment Break in the Exhibit Hall
6  12:00pm - 1:30pm  Complimentary Lunch
6  1:30pm - 2:30pm  Plenary Presentations: Karen Nakamura, PhD & Deer-Sheng Han, MD
6  3:45pm - 4:30pm  Refreshment Break
6  6:00pm - 7:00pm  ISPRM Assembly of Individual Members
6  6:00pm - 7:00pm  Poster Gallery Reception
6  7:30pm - 9:30pm  Resident/Fellow Networking Event – Topgolf Orlando

SUNDAY, MARCH 8

7:00am - 4:00pm  Registration Open
6  7:00am - 8:30am  AAP Annual Member Caucus & Awards
6  8:30am - 9:00am  Plenary Presentation: Akiko Ito, PhD
6  9:15am - 6:00pm  Educational Sessions
6  10:15am - 11:00am  Refreshment Break
6  1:30pm - 2:00pm  Plenary Presentation: Charlotte Kieken, MD
6  3:45pm - 4:30pm  Refreshment Break
6  2:00pm - 6:00pm  ISPRM Assembly of Delegates
6  6:00pm - 7:00pm  Poster Gallery Reception
6  7:00pm - 10:00pm  ISPRM 2020 Networking Event – SeaWorld Orlando

MONDAY, MARCH 9

7:00am - 10:00am  Registration Open
6  8:00am - 10:15am  Educational Sessions
6  10:30am - 11:30am  RMSTP Paper Presentations
6  11:30am - 1:00pm  Plenary Presentation (Naomi Lynn Gerber, MD) & Closing Ceremony

Presentations, times and schedules are subject to change.
Visit www.physiatry.org/schedule for the most up-to-date information.

Thank You to our Organizing Committees

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

AAP PROGRAM COMMITTEE

• Moon Suk Bang, MD, PhD
• Mohammad Agha, MD
• Patricia Rosales, MD
• Ross Zafonte, DO
• Simon Tang, MD
• Moon Suk Bang, MD, PhD
• Patricia Rosales, MD

ISPRM CONGRESS SCIENTIFIC COMMITTEE

• Gerard Francisco, MD - Chair
• Ian Cameron, MD
• Andrea Cheville, MD
• Alberto Esquenazi, MD
• Walter Frontera, MD, PhD
• Naomi Lynn Gerber, MD
• Heakyung Kim, MD
• Steven Krichman, MD
• Joelanta Kuwada, MD, PhD
• Isabelle Laffont, MD, PhD
• Milica Lazovic, MD, PhD
• William Micheo, MD
• Mooyeon Oh-Park, MD, MS
• Joao Páscoa Pinheiro, MD, PhD
• Danielle Perret Karimi, MD
• Larry Robinson, MD
• Sara Pinto, MD
• John Metzler, MD
• Monica Tietzworth, MBA
• Mark Tomero, MD
• Cynthia Volack
• Peter Vocias, MD

Take part in educational sessions, lively networking events and spontaneous meet-and-greets.
All events will be held at the Rosen Shingle Creek (9939 Universal Blvd, Orlando, Florida 32819) unless otherwise noted. You’ll find specific rooms on the event app, event website or the detailed schedule in this program!
Please join us for a special lunch & learn presentation featuring Dr. Fernando Pagan

Discover a Proven Therapy for Adult Patients with Chronic Sialorrhea

Saturday, March 7th
12 - 1 PM
Gatlin A1
Hosted by Merz Neurosciences

Fernando Pagan MD is a Neurologist and Movement Disorder Specialist at Georgetown University Hospital in Washington DC. Dr. Pagan is the Professor and Vice Chairman of Neurology, Director of the Movement Disorders Center, Medical Director for the Parkinsonism Foundation Center of Excellence; and Fellowship Director of the Movement Disorder Program at Georgetown University Hospital. Dr. Pagan is also the Medical Director of the Translational Neurotherapeutics program at Georgetown University Medical Center.

Booth #302

Copyright © 2020 Merz Pharmaceuticals, LLC. All rights reserved. MERZ and the MERZ logo are registered trademarks of Merz Pharmaceuticals, LLC. DR-34313-02

Dr. Pagan is a paid speaker on behalf of Merz North America, Inc.

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

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

ALARCOS CIEZA, PhD, MPH
Friday, March 6, 2020, 2:00PM-2:30PM
- 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?

QUINN CAPERS, IV, 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

VICTOR DZAU, MD
Friday, March 6, 2020, 1:30PM-2:00PM
- President of the National Academy of Medicine
- Professor of Medicine and Pathology at Duke University School of Medicine

AMY WAGNER, MD
Saturday, March 7, 2020, 9:15AM-9:45AM
- Professor, Vice Chair for Faculty Academic Development, Director of Translational Research and Director of the Brain Injury Medicine Fellowship at the University of Pittsburgh
- The WHO is Listening: How Can We Bring ‘Health Systems Thinking’ to the Minds & Actions of Rehabilitation Practitioners?
- Exploring Precision Medicine Opportunities Using the Rehabilomics Research Model: A TBI Exemplar
Plenary Speakers

**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

**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

**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

**CARLOTTE KIEKENS, MD**
SUNDAY, MARCH 8, 2020, 1:30PM-2:00PM
- Field Coordinator for Cochrane Rehabilitation
- Spinal Unit Director at the Montecatone Rehabilitation Institute

**NAOMI LYNN GERBER, MD**
MONDAY, MARCH 9, 2020, 11:30AM-12:15PM
- University Professor at George Mason University
- Director of the Center for the Study of Chronic Illness & Disability at George Mason University
- Director of Research for the Department of Medicine at Inova Fairfax Hospital

**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

**Sarcopenia: Diagnosis, Comorbidities & Management**
DER-SHENG HAN, MD
- Medical Director at the National Taiwan University Hospital Beihu Branch
- Associate Professor at the National Taiwan University College of Medicine

**Disability and the Promise of Technology — Eugenics, Prosthetics, and Artificial Intelligence in Japan and the United States**
KAREN NAKAMURA, PhD
- Distinguished Chair of Disability Studies and Professor of Anthropology at the University of California, Berkeley

**UN Focal Point on Disability**
AKIKO ITO, PhD
- Chief of Secretariat for the Convention on the Rights of Persons with Disabilities at the United Nations

**RehabUtopia: Strengthening Rehabilitation Services through Person-Centered Organization & Evidence Implementation**
CARLOTTE KIEKENS, MD
- Field Coordinator for Cochrane Rehabilitation
- Spinal Unit Director at the Montecatone Rehabilitation Institute

**Fight Back: Stop the Negative Functional Impact of Metabolic Syndrome and Obesity**
NAOMI LYNN GERBER, MD
- University Professor at George Mason University
- Director of the Center for the Study of Chronic Illness & Disability at George Mason University
- Director of Research for the Department of Medicine at Inova Fairfax Hospital

**Aquaporin Water Channels: From Atomic Structure to Clinical Medicine**
PETER AGRE, MD
- Bloomberg Distinguished Professor at Johns Hopkins University
- Director of Johns Hopkins Malaria Research Institute
- 2003 Nobel Prize in Chemistry

**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

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.

PMR’s noninvasive brain stimulation (NIBS) and POTS programs continue to expand in the areas of clinical expertise, research and education.

PMR 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.

PMR faculty members and physician-residents developed software called WeLearnON to enhance interaction and to facilitate precision education; the group presented on the subject at Physiatry ’19.

2018-19 Highlights:
Pre-Conference Workshops

There's still time to add one of these in-depth sessions to your registration! Master these important skills and get bonus networking time with your peers in an intimate setting. Stop by the registration desk to learn more.

Musculoskeletal Ultrasound in PM&R: The Certified Basics (SOLD OUT)
Wednesday, March 4, 2020, 8:00am-5:00pm & Thursday, March 5, 2020, 8:00am-5:00pm
Room: St. John’s 22/23
Levent Ozçakar, MD, Michael Bionca, MD, Armit Bhargava, MD, MS, Nithin Jase, MD, MSPH, Kamal Mezian, MD, PhD, Nimish Mittal, 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
In-kind support provided by Konica Minolta Healthcare

Spasticity Management: Where Are We Now?
Thursday, March 5, 2020, 8:00am-5:00pm
Room: Gatlin A2
Gerard Francisco, MD, Michael Creamer, DO, Thievy Deltombe, MD, Alberto Esquenazi, MD, Cindy Ivanhoe, MD, Sheng Li, MD, PhD, Alessandro Picelli, MD, PhD, Andrea Santomato, MD, Michael Saulino, MD, PhD, Monica Verdugo-Gutierrez, MD
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 spasmyloptelic 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 access and the guided self-rehabilitation contract.
Price: $250 for AAP & ISPRM members/ $400 for non-members
Partial financial and in-kind support provided by Saol, Medtronic, Ipsen, Max, Fluoroscan and Allergan. Attendees of this workshop can also enjoy a complimentary coffee break (10:15am-10:45am) and lunch (12:30pm-1:30pm) provided by Saol and Medtronic

Cancer Rehabilitation: Global Perspectives for Delivery of Care
Thursday, March 5, 2020, 8:00am-12:00pm
Room: Gatlin E4
Vishva Raj, MD, Evren Atasos, MD, Jennifer Baima, MD, Cynthia Bennett, MD, Andrea Cheville, MD, Christina May Moran de Brita, MD, PhD, Lynn Gerber, MD, Suzanne Gutierrez Teissenneire, MD, Abdelrassak Hajjoui, MD, Joe-Yong Jeon, MD, Fary Khan, MD, MBBS, Birgit Leibrand, MD, Jianan Li, MD, Christine MacDowell, FACPM, Amy Ng, MD, MPH, Monica Pinto, MD, Ji-Hye Hwang, MD, PhD
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

Brain & Peripheral Nerve Stimulation for Post-Stroke Recovery (SOLD OUT)
Thursday, March 5, 2020, 1:00pm-5:00pm
Room: Conway
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 TDCC, vagal nerve stimulation, indications for treatment, and instructions on performing treatment.
Price: $99 for AAP & ISPRM members/ $149 for non-members
In-kind support provided by Roche and Jali Medical

Developing Quality & Process Improvement Projects
Thursday, March 5, 2020, 1:00pm-5:00pm
Room: St. John’s 25
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

Spasticity Management: Where Are We Now?
Thursday, March 5, 2020, 8:00am-12:00pm
Room: Gatlin A4
Thievy Deltombe, MD, Francois Gennit, MD, PhD, Thievy Gutlin, MD, Emily Krauss, MD, 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 neurotomy, 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

Moving the Needle on Myofascial Pain Syndrome
Thursday, March 5, 2020, 1:00pm-5:00pm
Room: Gatlin A4
Lynn Gerber, MD, Secki DeStefano, PT, DPT, Dinesh Kumhare, MD, PhD, Vj Phan, PhD, Joy Shoh, MD, Siddhartho Sidker, PhD, John Sibelius, DC, PhD, Antonio Stoco, 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 objectively 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
Room: Gatlin E4
Marlis Gonzalez-Fernandez, MD, PhD, Yoko Inamoto, PhD, Bjuung-Mo Oh, MD, PhD, Eric Stein, 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 videoeendoscopy (VE) images and to generate treatment plans based on real clinical images.
Price: $99 for AAP & ISPRM members/ $149 for non-members
The future of rehabilitation starts in Pittsburgh.

The future of vision and rehabilitation excellence is being built from the ground up in Pittsburgh at the UPMC Vision and Rehabilitation Tower - a cornerstone of the UPMC Rehabilitation Institute. When the state-of-the-art outpatient facility opens its doors in 2022, it will bring researchers and clinicians together in a collaborative environment where innovative rehabilitation findings can translate directly into clinical practice. By pioneering the healing power of biology and engineering through regenerative rehabilitation, robotics-assisted therapies, and personalized exercise-based approaches, UPMC will ensure that research innovations truly address the critical needs of patients. Visit UPMC.com/VisionRehabHospital to learn more.

Special-Interest Workshops

Stay after the workshops for:
Fellowship & Job Fair
Thursday, March 5, 2020, 5:30pm-7:00pm
Room: Gatlin D
Looking for a new challenge or weighing different career paths? Speak to more than 50 institutions recruiting for a variety of open positions, including fellowships!

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

WEDNESDAY, MARCH 4, 2020
12:00pm-1:00pm
Accreditation Council for Graduate Medical Education (ACGME) Update
Caroline Fischer, MBA and Wendy Hekowski, MD

1:00pm-1:45pm
Resident & Fellow Recruitment Update
Michael Saulino, MD, PhD

1:45pm-2:30pm
American Board of Physical Medicine & Rehabilitation (ABPMR) Update
James McDeavitt, MD

3:00pm-3:30pm
Practice Improvement Projects (PIP)
Carolyn Kinney, MD

3:30pm-4:00pm
How Residency Training Can Better Prepare Physicians for Practice
Gregory Worsowicz, MD

4:00pm-5:00pm
RFPD Council Business Meeting
Rita Horonitzt, DO

THURSDAY, MARCH 5, 2020
8:00am-12:00pm
Ultrasound Introduction

8:10am-8:20am
EMG Introduction

8:20am-11:30am
Small Group Rotations:
(1) Ultrasound Rotation
(2) Fluoroscopic Procedures
(3) Spasticity Management
(4) Electromyography

11:30am-12:00pm
Faculty Q&A and Wrap Up

THURSDAY, MARCH 5, 2020
8:00am-8:10am
Welcome & Brief Didactic Lecture

8:10am-8:20am
Ultrasound Introduction

8:20am-8:30am
EMG Introduction

8:30am-11:30am
Small Group Rotations:
(1) Ultrasound Rotation
(2) Fluoroscopic Procedures
(3) Spasticity Management
(4) Electromyography

11:30am-12:00pm
Faculty Q&A and Wrap Up

Medical Students, Residents & Fellows Workshop (SOLD OUT!)
Partial financial and in-kind support provided by:
Cadwell, Medtronic, Ipsen, Med, Allergan, and FujiFilm Sonosite

Procedures in PM&R
Room: Gatlin D
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.
Special-Interest Workshops

SATURDAY, MARCH 7, 2020
8:30am-9:00am / Room: Gatlin E 3/4
Artificial Intelligence in PM&R
Chetan Anand, MD

11:00am-12:00pm / Room: St. John’s 26
Employee Contracting: Getting the Most Out of Your Job Offer
Steve Tomsic, MBA

2:45pm-3:45pm / Room: St. John’s 26
Physician Wellness Programs
Kirk Roden, MBA, FACHE

4:30pm-6:00pm / Room: Gatlin A 3/4
Optimizing the Care of Patients Transitioning from Pediatrics to Adult Medicine
Nicole Blitzer, RN, CNM, MSM, Kelly Heath, MD, Ashlee Jaffe, MD

Program Coordinators Sessions
Sessions take place in Gatlin E2 on Thursday and St. John’s 27 on Friday and Saturday (unless otherwise noted).

THURSDAY, MARCH 5, 2020
1:00pm-1:30pm
Welcome & Introductions
Jennifer Zumsteg, MD

1:30pm-2:30pm
ISPRM: How We Are Connected
Walter Frontera, MD, PhD

2:45pm-3:45pm
Perspective on the ACGME Accreditation Data System (ADS) Update
Wendy Helkowski, MD

5:30pm-7:00pm
Fellowship & Job Fair

FRIDAY, MARCH 6, 2020
8:00am-9:00am
Microaggression/ Professionalism
Jennifer Zumsteg, MD

9:00am-10:00am
Icebreaker
Nicole Prioleau

10:30am-11:30am
Self-Study Panel
Leigh Austin

1:00pm-2:00pm
Wellness
Marni Hillinger, MD

2:00pm-3:00pm
Game

7 Habits of Highly Effective Coordinators
Charlene Larson Rotondi, AB, C-TAGME

SATURDAY, MARCH 7, 2020
9:00am-10:00am
Coordinators A-Z
Cynthia Velocat, C-TAGME, Kara O’Dwyer, C-TAGME, Mallory Pridy

10:30am-11:30am
Milestone Assessment: The Coordinator’s Role
Jessico Burkhardt

1:30pm-2:00pm
ABPM&R Update
Carmen Pitzer

2:00pm-3:00pm
Game
Stacey Sneed-Peterson, MS, Cindy Grogg

Chair & Chief Sessions
THURSDAY, MARCH 5, 2020
8:30am-9:00am / Room: St. John’s 25
Chairs Council Business Meeting

SUNDAY, MARCH 8, 2020
9:15am-10:15am / Room: St. John’s 26
Physiatrists & The Service Line: Delivery as a Vertical Integration
Farha Ikramuddin, MD

2:45pm-3:45pm / Room: Gatlin A 3/4
Evidence-Based Strategies to Reduce Opioid Use for Pain Management
Douglas Oyler, PharmD

Administrative Directors Sessions
THURSDAY, MARCH 5, 2020
12:00pm-1:00pm / Room: Gatlin E1
Administrative Directors Networking Lunch

1:00pm-2:00pm / Room: Gatlin E1
Update on CPT Billing & Codes
Amine Dahab

2:00pm-3:00pm / Room: Gatlin E1
Innovation & Efficiency in Provider Scheduling
Lauren Collins, MHA, Rebecca Holmberg, MBA, Mallory Pridy

3:00pm-4:15pm / Room: Gatlin E1
TBD

5:30pm-7:00pm / Room: Gatlin D
AAP Fellowship & Job Fair

FRIDAY, MARCH 6, 2020
8:00am-9:00am / Room: Gatlin A3
Cardiac Rehabilitation in Non-Cardiac Patient Populations
Matthew Bartels, MD, MPH, David Prince, MD

11:00am-12:00pm / Room: Gatlin E1
Profitable Clinical Trial Business
Steve Tomsic, MBA

4:30pm-5:30pm / Room: Gatlin E1
Administrative Directors Business Meeting

RFPD Pre-Conference Workshop for Program Directors & Coordinators (Additional Fee)

Program Coordinators Sessions
Sessions take place in Gatlin E2 on Thursday and St. John’s 27 on Friday and Saturday (unless otherwise noted).

THURSDAY, MARCH 5, 2020
1:00pm-1:30pm
Welcome & Introductions
Jennifer Zumsteg, MD

1:30pm-2:30pm
ISPRM: How We Are Connected
Walter Frontera, MD, PhD

2:45pm-3:45pm
Perspective on the ACGME Accreditation Data System (ADS) Update
Wendy Helkowski, MD

5:30pm-7:00pm
Fellowship & Job Fair

FRIDAY, MARCH 6, 2020
8:00am-9:00am
Microaggression/ Professionalism
Jennifer Zumsteg, MD

9:00am-10:00am
Icebreaker
Nicole Prioleau

10:30am-11:30am
Self-Study Panel
Leigh Austin

1:00pm-2:00pm
Wellness
Marni Hillinger, MD

2:00pm-3:00pm
Game
Stacey Sneed-Peterson, MS, Cindy Grogg

7 Habits of Highly Effective Coordinators
Charlene Larson Rotondi, AB, C-TAGME

THURSDAY, MARCH 5, 2020
1:00pm-2:00pm
Building & Maintenance: Physician Reputation
Kirk Roden, MBA, FACHE

2:00pm-2:30pm
Update on CPT Billing & Codes
Amine Dahab

2:30pm-3:00pm
Innovation & Efficiency in Provider Scheduling
Lauren Collins, MHA, Rebecca Holmberg, MBA, Mallory Pridy

3:15pm-4:15pm
TBD

5:30pm-7:00pm
Fellowship & Job Fair
As the world's first university-affiliated facility devoted entirely to rehabilitation medicine, Rusk Rehabilitation at NYU Langone Health is proud to celebrate more than 70 years providing patients with the necessary physical, social, emotional, vocational, and recreational skills to reach the highest possible levels of independence and quality of life.

Rusk Rehabilitation has been voted the best rehabilitation hospital in New York and among the top ten in the country by U.S. News & World Report since it began its rankings.

855-NYU-RUSK • nyulangone.org/rusk • @RuskInsights
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 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**
- These sessions are designed by the Mexican Society of PM&R, AMLAR, and others for our Spanish-speaking participants. We’ll also have translation services for Plenary Presentations and other sessions taking place in Gatlin D. There will also be Spanish posters in all of our poster gallery receptions.

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

---

**EDUCATIONAL SESSIONS 1**

**Implementing Innovative Curricula for Medical Students & Residents**
- 8:00am-9:00am / Room: Gatlin A4
- Adam Stein, MD, Janice John, DO, 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**
- 8:00am-9:00am / Room: Gatlin A3
- Matthew Bortels, 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.

**Bone-Tendon Junction Injury: Evolving Research & Clinical Approach**
- 8:00am-9:00am / Room: Gatlin A2
- Kentaro Otsuki, DO, MD, Michael Freidricson, MD, James H-C Wong, 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.

**Musculoskeletal Ultrasound in PM&R: Diagnostics & Intervention**
- 8:00am-9:00am / Room: Gatlin D
- Kamal Mezian, MD, Levent Ozcokar, MD
- Explore several aspects concerning the utility of musculoskeletal 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.

**Regenerative Rehabilitation: Exploring New Frontiers (Part 1)**
- 8:00am-9:00am / Room: Gatlin E2
- Walter Frontero, MD, PhD, Fabrisio Ambossio, 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.

**Prognosticating Recovery in Spinal Cord Injury**
- 8:00am-9:00am / Room: Gatlin E 3/4
- Steven Kirshblum, MD
- Discuss parameters used to help prognosticate neurological recovery after traumatic spinal cord injury and predictive models for predicting walking.

**Myofascial Pain Syndrome: Peripheral & Central Mechanisms**
- 8:00am-9:00am / Room: Conway
- Dinesh Kumbar, MD, PhD, Jay Shoh, MD, John Sibely, 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 fascia.

**A Neurocognitive Approach to Musculoskeletal Rehabilitation**
- 8:00am-8:30am / Room: Gatlin A2
- Amy West MD, EdM, 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.

---

**Friday | March 6, 2020**

**ISART Symposium: Advanced Technologies, Changing the Professional Profile of Therapists**
- 7:00-8:00am / Room: Gatlin A1
- Alberto Esquenazi, MD, Martino Spiess, PhD, PT, Deborah Backus, PhD, PT, Candy Tefertiller
- Gain insights into how the rehab care delivery model is affected by advanced technologies and how educational institutions can prepare for the new generation of clinician change. Clinicians, technology experts and educators will share their experiences and discuss the necessary adaptations.

**Innovative Curricula for Medical Students & Residents**
- 8:00am-9:00am / Room: Gatlin A4
- Adam Stein, MD, Janice John, DO, 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.

**Clinical**
- Take new worldwide insights to practice with our clinical track, bringing you 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.
A Unified Model for Stroke Recovery & Rehabilitation
11:00am-12:00pm / Room: Gatlin E3/4
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, restoration of function and quality of life to those affected.

Novel Advancements in the Treatment of Musculoskeletal Pain
11:00am-12:00pm / Room: Gatlin A2
Ming-Yen Hsiao, MD, PhD, Yu-Cheng Pei, MD, Aareet Suputtitada, MD
Discover the newest advancements in pain treatments, including precision pain treatment using musculoskeletal ultrasound-guided injection skills.

Mobility of the Aged Population
11:00am-11:30am / Room: Gatlin A4
Walter Frontera, MD, PhD, Gerald Ebenbichler, MD, Lars Oddsson, PhD
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 prostheses for safer mobility and lower fall risk in the aged population will be presented.

Emotional Intelligence Training: Is There a Role in Medical Education?
11:00am-12:00pm / Room: Gatlin E5
James Siwek, 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.

Regenerative Rehabilitation: Exploring New Frontiers (Part 2)
11:00am-12:00pm / Room: Gatlin E2
Walter Frontera, MD, PhD, Fabrisio Ambrosio, PhD, MPT, 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
11:00am-12:00pm / Room: Gatlin D
D. Alessandro Picelli, MD, PhD, Andrea Sontomoto, MD
Learn recent evidence-based data and expert consensus on optimizing chemodenervation technique to improve both patient-centered and technical outcomes.

Medical Marijuana & Hemp in Rehabilitation Medicine: The Pediatric & Adult Experience
2:45pm-3:45pm / Room: Gatlin A2
Tamaras Zygus, MD, Amol Deshpande, MD, Marisa Flavin, MD, Ninhim Miltol, MD, Maurice Solhas, 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 use of medicinal marijuana and hemp, and more.

Knee Osteoarthritis: What Can I Offer You?
2:45pm-3:45pm / Room: Gatlin A3
Amrit Bhargava, MD, Jonathan Kirschner, MD, Brittany Moore, MD, MS
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.
**Educational Sessions 4**

**RATULS on Upper Extremity Rehabilitation Robotics**
4:30pm-6:00pm / Room: Gatlin A2
Hermano-Igo Krebs, PhD, Helen Rodgers, MD, Frederike van Wyck, PhD
Robots 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 Biomarkers for Knee Osteoarthritis**
4:30pm-5:15pm / Room: Gatlin A3
Linamara Rizzo Bottistello, MD, PhD, Roberto Abi Rached, MD, PhD, Mario Mauro, 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**
5:15pm-6:00pm / Room: Gatlin A3
Leonardo Metavováh, MSc, Riccardo Soldovelli, MD
The estimated symptomatic knee osteoarthritis (OKA) 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.

**IfWeMove: Physical Activity in People with Disabilities in the Digital Age**
4:30pm-6:00pm / Room: Gatlin A4
Mark Peterson, MD, Joseph Boklundt, MD, Roy Cooper, PhD, Uma Pandiyan, MD, Abderrezek Hajjou, MD, Yeto Tzuki-Woosum, 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**
4:30pm-6:00pm / Room: Gatlin E2
Alex Moroz, MD, MHPE, Kirienn Cermody, MD, MHPE, Ninaad Karonisker, MD, Sara Hoier, MD, Regan Royer, MD, Justin Wepner, 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.

**PM&R Investigations for Evaluation of Peripheral Nerves: EMG & Ultrasound**
4:30pm-6:00pm / Room: Gatlin E 3/4
Amrit Bhargava, MD, Guleseren Akuz, MD, Faron Williams, MD
Electromyography (EMG) 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.

**Improving Outcomes Across the Care Continuum: A Multi-Institutional Perspective**
4:30pm-6:00pm / Room: Conway
Sarah Welch, DO, Jonathan Beon, MD, MPH, Andrea Cheville, MD, Erik Hoger, 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.

**Rehabilitation for Visceral Impairment**
4:30pm-5:15pm / Room: Gatlin E5
Mosabeh Kuhzki, MD, PhD, Jianqin 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**
5:15pm-6:00pm / Room: Gatlin E5
Bryan O'Young, MD, Toshaf Benton, 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**
4:30pm-6:00pm / Room: Gatlin D
Yen-Ting Chen, PT, PhD, Thierry Deltombe, MD, Gerard Franciscio, MD, Sheng Li, MD, PhD, Athul Patel, 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.
Saturday  |  March 7, 2020

EDUCATIONAL SESSIONS 1

Machine Learning in Brain Injury Medicine
8:00am-9:00am / Room: Gatlin A2
Louren Shapiro, MD, MPH, Jerry Bonnell, Hannah Rodabaugh, Dilip Sorkar, PhD, Odella 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?
8:00am-9:00am / Room: St. John’s 28/29
Francisco Bentz Brugal MD, Isabella Nunez, MD, Manuel Wong, MD
Se ha hecho cada vez mas frecuente recurrir a tratamientos de Medicina Regenerativa para ayudar a la solucion de lesiones en los atletas. La evidencia y pertinencia es muchas 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 (Part II)
8:00am-9:00am / Room: Gatlin D
John Whyte, MD, PhD, Angela Colantonio, PhD, Flora Hammond, MD, Petru Mavrou-Karavetou, PhD, MSC, Caroline Stillman, 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.

Neuromodulation. From Head to Toe
8:00am-8:30am / Room: Gatlin E3/4
Erin Feinstein, MD, Antonius Mannonis, 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.

Artificial Intelligence in PM&R
8:30am-9:00am / Room: Gatlin E1/4
Chetan Anand, MD
Learn all about artificial intelligence (AI) - the various algorithmic models used in data processing that form the framework of 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.

Rehabilitation & New Technologies: Education & Relationships for Professionals
8:00am-9:00am / Room: Gatlin ES
Alessandro Giustini, MD, Mario Chiara Corrozza, PhD, Daisola Popo, MD, PhD
Join the European Society of PRoM’s Interest Group on Robotic and New Technologies in Rehabilitation as we discuss new applications of technology in rehabilitation and the great need 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.

AHPMR Longitudinal Assessment (LA-PHMR): What It Means for You
8:00am-9:00am / Room: Conway
Carolyn Kinney, MD
As of January 2020, diplomats 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 AHPMR’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
8:00am-9:00am / Room: Butler
David Cronedd, MD, Danielle Melton, MD, Terence Sherwood, 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
8:00am-9:00am / Room: Sandlake
David Condey, MD, Mario Giraldo-Prieto, MD, Dora Jones, MD, Veronica Matasso, 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 occupational skills assessment for persons with intellectual disabilities.

Applying to a PM&R Residency. Roundtable with Program Directors
8:00am-9:00am / Room: Room: St. John’s 32/33
Miguel Escalon, MD, Monica Rha, MD, Eric Wisotzky, MD, Emily Kivelov, MD, Alessandro de Sire, 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.

Scientific Paper Presentations – Biomechanics & ICF
8:00am-9:00am / Room: Gatlin A1/4
Scientific Paper Presentations – Medical Rehabilitation Session Chairs: Maher Benjdid, MBBS, DMR, and Daniel Fechtner, MD
Room: St. John’s 30/31

PLenary Speakers: Amy Wagner, MD and Peter Agie, MD
Room: Gatlin D
9:15am-10:15am

REFRESHMENT BREAK IN THE EXHIBIT HALL
10:15am-11:00am

ISPRM World Youth Forum Task Force Panel Discussion
10:30am-12:00pm / Room: St. John’s 27

Saturday  |  March 7, 2020

EDUCATIONAL SESSIONS 2

 Disaster Rehabilitation: Common Injuries & Disabilities Seen Post-Disaster
11:00am-12:00pm / Room: Gatlin A2
Marcelle Alexander, MD, Jan Dietrich Reinhardt, PhD, Filipinas Gonchon, MD, Su Yi Lee, PhD, Vondenda Vusvudew, MBBS
Discover the common injuries and disabilities seen during natural and manmade disasters, how they are classified based on ICF classification, and their long-term outcomes and complications.

How Social Media Can Positively Impact Your Medical Career
11:00am-12:00pm / Room: Gatlin A 3/4
James Eubanks, MD, MS, Vinny Francisio, PhD, MD, April Hyon, MS-IV, George Roum, OMS-IV, Justin Schoppell, MD, Roman Sharma, MD, Mario Verduzio-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
11:00am-12:00pm / Room: Gatlin D
Ross Zafonte, DO, Jonve Bradowski, PT, DPT, Thomas Watanabe, MD
Get an evidence-based review of the present literature and explore ongoing 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.

Implementation of an International SCI Survey
11:00am-12:00pm / Room: St. John’s 30/31
Jerome Bickenbach, PhD, Gerald Stucki, MD, James Middleton, PhD, Jerome Bickenbach, PhD, Gerold Stucki, MD, Monica Rho, MD, Eric Wisotzky, MD
The International Spinal Cord Injury (InSCI) community with SCI. Learn more about InSCI, early results, and an implementation strategy.
the issues that arise from these discrepancies.

In PM&R at the residency and attending levels, as well as the shortage of minorities who enroll in medical school and of underrepresented minorities in medicine in order 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 in the board certification process and how to overcome common pitfalls.

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.
**Saturday | March 7, 2020**

**Navigating Global Health Opportunities in Physiatry Education**
2:45pm-3:45pm | Room: Conway
Amy Mathews, MD, Lauren Schopin, 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.

**Medical Student & Resident Roundtables**
2:45pm-3:45pm | Room: St. John’s 32/33
Ask questions and discuss physiatry with fellow trainees representing a variety of subspecialties, interest, programs and regions.

**International Perspectives on Patients with Disorders of Consciousness (Part 2)**
2:45pm-3:45pm | Room: Butler
Angela Colonotinis, PhD, Flora Hammonds, MD, Patricia Mauer-Kranut, PhD, MSc, Caroline Schnakers, PhD, Thomas Wolbers, 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.

**Reestablishing Spasticity Management for Adults with Cerebral Palsy**
2:45pm-3:15pm | Room: Sandlake
Heojuang Kim, MD, Amber Newell, OTRL, PNP, Paolo Selber, 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 or orthopedic intervention. You will also explore how to treat this growing population, common orthopedic interventions, and indications for orthopedic surgery for adults with CP.

**Evidence-Based Personalized Approach to Idiopathic Scoliosis**
3:15pm-3:45pm | Room: Sandlake
Stefano Negriini, MD
Recent advances in so-called conservative or PRM treatment of idiopathic scoliosis have 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**
3:45pm-4:30pm

**EDUCATIONAL SESSIONS 4**

**Meniscus Update: Evolving Research Models & Clinical Practice**
4:30pm-6:00pm | Room: Gatlin A2
Kentaro Onishi, DO, Andrew Gordon, MD, PhD, Jacob Resiner, DO
Discover the utility of ultrasound in evaluation of meniscal 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**
4:30pm-6:00pm | Room: Gatlin A3/4
Nicole Bitter, RN, CMF, MSH, Kelly Heath, MD, 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.

**Icy Wear Technology in Mobility Assessment Following TBI**
4:30pm-5:15pm | Room: Gatlin D
Shanti Pinto, MD, Nahid Habib, MS, Mork Newman, PhD, MPH, Kathryn Williams, PT, DPT, CBIS
Many gait changes occur following traumatic brain injury (TBI). Dive into deep 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.

**Trends in Knee Orthoses & Exoskeletons for Post-Stroke Locomotion Training**
5:15pm-6:00pm | Room: Gatlin D
Nikola Dragoljovic, DO, Shuo-Huai 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.

**Evidence-Based Personalized Approach to Idiopathic Scoliosis**
3:15pm-3:45pm | Room: Sandlake
Stefano Negriini, MD
Recent advances in so-called conservative or PRM treatment of idiopathic scoliosis have 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**
3:45pm-4:30pm

**Enfoques Manuales e Instrumentales en los Téjidos Blandos**
4:30pm-6:00pm | Room: St. John’s 28/29
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.

**Long-Term Effects of Repetitive Head Trauma in Sports & Military**
4:30pm-5:15pm | Room: Gatlin E1/2
Daniel Doneshvar, 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.

**Screening & Diagnosis of Sleep Apnea in Acute TBI**
5:15pm-6:00pm | Room: Gatlin E 1/2
Rino Nakose-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.

**RESIDENT/ FELLOW COUNCIL (RFC) ELECTED**
4:30pm-6:00pm | Room: St. John’s 32/33
Come cast your vote as candidates present their background, skills and goals as they vie for the RFC’s 2020-2021 leadership roles!
POSTER GALLERY RECEPTION
6:00pm-7:00pm
Room: Gatlin B

Discover cutting-edge research studies and case reports as you interact with PM&R trainees and leading researchers from around the globe. With over 1,600 posters being presented this year, you are sure to walk away with a new idea and/or collaboration! Refreshments will be served.

SPONSORED BY:
Allergan

EDUCATIONAL SESSIONS 1

A New ICF-Based Tool for Assessing & Reporting Patient Functioning
9:15am-10:15am / Room: Gatlin E 1/2
Julia Patrick Engkasan, MD, Jonan Li, MD, 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. In this hands-on workshop, you’ll receive guidance on establishing development and implementation projects, building blocks and guiding principles using case examples in diverse rehabilitation services types and settings, initial experiences of countries who have implemented initial versions of ClinFIT, and future development and implementation activities.

Actigraphy in Acute TBI Polytrauma: The James A. Haley VA Experience
9:15am-10:15am / Room: Gatlin E 1/2
Rizo Nakase-Richardson, PhD, MD, PHB, Faizo 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
9:15am-10:15am / Room: Gatlin D
Sheng Li, MD, PhD, Ning Coo, 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
9:15am-10:15am / Room: Butler
Margaret Huyes, MD, Morgan Soffer, 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)
9:15am-10:15am / Room: Gatlin A 3/4
Wouter De Groote, MD, Abderrazak Hajiouli, MD, Nitin Jain, MD, Brenda Saria, MBBS
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.

Motor Recovery After Stroke: Prediction, Neuroplasticity & Clinical Implications
9:15am-10:15am / Room: Gatlin D
Sheng Li, MD, PhD, Ning Coo, 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
9:15am-10:15am / Room: Butler
Margaret Huyes, MD, Morgan Soffer, 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.
Sunday | March 8, 2020

**Academic Career Paths: Developing the Next Generation of Academicians**
9:15am-10:15am / Room: St. John's 12/13
Allison Bean, MD, PhD, Chan Goo, MD, PhD, Christopher Garrison, MD, MBA, Dinesh Kumhare, 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.

**Cochrane Rehabilitation: The Way Forward to Strengthen Evidence**
9:15am-10:15am / Room: Gatlin A2
Corlotta Kiekens, MD, Stefano Negri, MD
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 convenes 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.

**Diagnosing Entrapment Neuropathies**
9:15am-10:15am / Room: Conway
Michael Andary, MD, HS, Truc Phuoc, MD, Larry Robinson, MD

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

**Scientific Paper Presentations – Spasticity, Stroke & TBI**
9:15am-10:15am / Room: St. John’s 22

**REFRESHMENT BREAK IN THE EXHIBIT HALL**
10:15am-11:00am

**EDUCATIONAL SESSIONS 2**

- **Fostering Wellness in Trainees: More than Reducing Work Hours**
  11:00am-12:00pm / Room: St. John’s 32/33
  Allison Schroeder, MD, Allison Bean, MD, PhD, Kevin Franzese, DO, Charles Michael Taylor II, MD, MS, Monico Verdezugo-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-Concussive Headache: Concepts, Caveats & Controversies**
  11:00am-12:00pm / Room: Gatlin E 3/4
  Na-than Zosler, MD

Get insights into the myriad causes of headache following trauma, including concussion, and the importance of defining the specific pain generators to optimize treatment efficacy. You will also learn headache classification, etiology and pathophysiology, as well as examination caveats and treatment options. Concluding the session, you will walk away with advice for future research to enhance our understanding of this class of headache disorders as related to improving clinical treatment outcomes.

- **Demystifying Central Fatigue**
  11:00am-12:00pm / Room: Gatlin A 3/4
  Qiong Mei Wang, MD, PhD, Lisa Wood, PhD, RN, Nicole Mazzi, 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**
  11:00am-12:00pm / Room: Gatlin D
  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**
11:00am-12:00pm / Room: Gatlin ES
Richard Riggs, MD, Pamela Roberts, PhD

Brought to you by 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.

**EMG in Traumatic Neuropathy**
11:00am-12:00pm / Room: Conway
Larry Robinson, MD, Thomas 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.

**Global Rehabilitation Building Capacity in Low-and Middle Income Countries (Part 2)**
11:00am-12:00pm / Room: Gatlin A2
Wouter De Groote, MD, Abderazzak Hajjouri, MD, Nitin Jain, MD, Brenda Soria, MBBS

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.

**Scientific Paper Presentations – Best Paper Research**
11:00am-12:00pm / Room: St. John’s 22

**PLENARY SPEAKER:**
Corlotta Kiekens, MD
Room: Gatlin D
1:30pm-2:00pm

**Non-Invasive Neuromodulation in Rehabilitation**
11:00am-12:00pm / Room: Sandlake
Sheng Li, MD, PhD, Joel Fronteni, MD, Radha Korupolu, MD, MS, Argynio Stamps, 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 BreStim (deep breathing with peripheral electric stimulation), tibial nerve stimulation, and transcutaneous spinal direct current stimulation (tDCS).

**Rehabilitation 2030: Is the Field Ready to be the 21st Century Health Strategy?**
11:00am-12:00pm / Room: Gatlin E 1/2
Antony Duttine, MSc, DrPH, Filipinas Ganchoon, MD, Walter Frontera, MD, PhD

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 professionals and subspecialties, and more.

**Guías de Práctica Clínica Para Personas con Amputaciones en Colombia**
11:00am-12:00pm / Room: St. John’s 26/29
Mario Grodengo-Prieto, MD, Juan Manuel Guzman, MD, Merto Inmomo, 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 apunte recomendaciones adicionales para mejorar.

**The NIH Research Plan on Rehabilitation: Future Directions for the Field**
11:00am-12:00pm / Room: Butler
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.
Learn about three initiatives within UK HealthCare that responsibly use opioids both locally and statewide.

2:45pm-3:45pm / Room: Gatlin
Pain Management

Martin Iglesias Morales, MD, Macarena Montoya, MD, Alberto Esquenazi, MD, Juan Manuel Guzman, MD

La Corriente Electromagnética en la Disfunción Pélvica y del mundo realizado en México.

Biomarkers & Management for Vascular Cognitive Impairment
2:45pm-3:45pm / Room: Gatlin D
Qing Mei Wang, MD, PhD, Nicole Mozell, MD

Discover new evidence to identify risk factors for vascular cognitive impairment using body fluid and neuroimaging biomarkers and get a comprehensive review of current recommendations for prevention and treatment.

Potential Application of Genetic & Biomarkers in Post-Stroke Depression
3:15pm-3:45pm / Room: Gatlin D
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
2:45pm-3:45pm / Room: Gatlin A2
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.

Fellowship Roundtables
2:45pm-3:45pm / Room: St. John’s 32/33
Jeremy Richards, MD

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.

AANEM Session: You Make the Call
An Approach to EMG Waveform Recognition Skills
2:45pm-3:45pm / Room: Butler
Devon Rubin, MD

Brought to you by our co-host, 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
2:45pm-3:45pm / Room: Gatlin E1.3/4
Deborah Backus, PT, PhD, Michael Jones, PhD

Brought to you by our co-host, 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
2:45pm-3:45pm / Room: Sandlake
Andrei Krasiliovuk, MD, Ruediger Rupp, PhD

Brought to you by our co-host, 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 (ISASFSC). 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
4:30pm-6:00pm / Room: Gatlin E1.3/4
Michael Lee, MD, MHA, CPE, Rochelle Dy, MD, Nneka Ifejika, MD, MPH, Marta Ianmuro, MD, PhD, Peter Lim, MD, Olivier Reuymen, 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
4:30pm-6:00pm / Room: Gatlin D
Lumy Sowoki, MD, PhD

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.
Rehabilitation needs are expected to increase with a graying population, widespread dissemination of road traffic accidents, violence and conflict. Back to Basics: History & Physical Exam in Sports & Musculoskeletal Medicine
9:15am-10:15am / Room: Gatlin E 1/2
William Mihceo, MD, Gerardo Miranda-Comas, MD, Belmonde-Rodriguez-Santiago, MD, Fernando Siquivelva, 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.

Gait Analysis in Clinical Practice Across the World
9:15am-10:15am / Room: Gatlin A 1/2
Daniela Garcia, MD, Daniel Moon, MD
Explore approaches to gait analysis used as a clinical tool in rehabilitation. Experts from different regions of the world will coalesce to share clinical applications of the techniques as used in traumatic brain injury, stroke and cerebral palsy.

Ultrasound Elastography for Measurement of Muscle Properties
9:45am-10:15am / Room: Gatlin A 3/4
Joline Brandenburg, MD
Use of ultrasound imaging for diagnostic and interventional purposes is growing in PM&R practices. Get an overview of ultrasound elastography technologies and its use in measuring muscle properties, including measuring muscle properties in children with spastic cerebral palsy.

Neuroplasticity & Neurophysiological Biomarkers in Rehabilitation
9:15am-10:15am / Room: Gatlin ES
Marta Imamura, 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 aspects caused by road traffic accidents, violence and conflict.

Back to Basics: History & Physical Exam in Sports & Musculoskeletal Medicine
9:45am-10:15am / Room: Gatlin E 1/2
Marta Imamura, MD, PhD, Leandro Iuamoto, 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.

Increasing Medical Student Interest in PM&R
9:45am-10:15am / Room: Gatlin E 1/2
Marta Imamura, MD, PhD, Marigonda Miyazaki, MD, Korta Lino Miyahara, MD, Marione Toteishi, MD, Elzibete Tsukinomi Sato Guineiro, 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.

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 get involved.
- 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.

Ultrasound Elastography for Measurement of Muscle Properties
9:45am-10:15am / Room: Gatlin A 3/4
Joline Brandenburg, MD
Use of ultrasound imaging for diagnostic and interventional purposes is growing in PM&R practices. Get an overview of ultrasound elastography technologies and its use in measuring muscle properties, including measuring muscle properties in children with spastic cerebral palsy.
Penn State Health Milton S. Hershey Medical Center is committed to the provision of comprehensive physical medicine and rehabilitation programs and services to maximize the health, function, and quality of life to those we serve, ultimately returning those persons to their communities. Applications are now being accepted for the following positions:

- General Physiatrist – Primarily inpatient
- Outpatient Physiatrist – State College, PA
- Pediatric Physiatrist – Inpatient and outpatient
- Consult Physiatrist - Inpatient and outpatient

Successful applicants for these positions will be expected to contribute to the mission areas of patient care, education, and research. Penn State Health Rehabilitation Hospital offers flexible schedules, manageable call, and a team-oriented approach to patient care. A competitive salary and an excellent benefits package await you!

For immediate consideration, please send curriculum vitae to:
Ashley Nippert, Physician Recruiter
Email: anippert@pennstatehealth.psu.edu | Tel: 717-531-0003 x320184

Penn State Health Milton S. Hershey Medical Center offers the following ACGME accredited training programs:
- Physical Medicine and Rehabilitation Residency
- Brain Injury Fellowship
- Spinal Cord Injury Fellowship

For more information please contact:
Michelle Osterlund, Residency & Fellowship Program Coordinator
Email: mosterlund@pennstatehealth.psu.edu
Tel: (717) 531-0003 x282045

Join us at the ISPRM 2020 Signature Networking Event!
Hosted by the AAP Board of Trustees and ISPRM Executive Committee

Experience Unexpected Encounters & Connections at SeaWorld Orlando

Sunday, March 8, 2020, 7:00pm-10:00pm
$130 per person
STOP BY REGISTRATION TO GET YOUR TICKET IF YOU HAVEN’T ALREADY!

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 Orca Encounter, desserts and entertainment in the Wild Arctic Habitat! Take in this full sensory experience with your fellow PM&R leaders and rising stars.

FREE SHUTTLES WILL BE PROVIDED!
Buses are leaving the Rosen Shingle Creek between 7:00pm-7:20pm. They will return to the hotel immediately after the event.
Scientific Paper Presentations

Saturday, March 7, 2020

Group A – Biomechanics & ICF
8:00am – 9:00am / Room: Gatlin A 3/4

The Relationship Between Gait Complexity and Decline in Physical Function
Neil Segal, MD, MS

Preliminary Effect of Three-Dimensional Printing Dynamic Ankle Foot Orthosis on Plantar Pressure Distribution in Stroke Patients
Chun Ming Fu, MD, PhD

The Implementation Process of Disability Evaluation System Based on the ICF in Taiwan: 10-Year Experience
Tian-Hon Liou, MD, PhD

High Prevalence of Disability in Children Aged 2-17 years Old in Honduras, Central America, 2017
Gabriela Goldamez, MD; Norma Castellanos, MD, Ismary Rodriguez, MD

Group B – Medical Rehabilitation (Including Cardiopulmonary)
8:00am – 9:00am / Room: St. John’s 30/31

Cachexia Syndrome is Associated with the Functional Recovery of Cancer Patients in Inpatient Rehabilitation
Ishan Roy, MD, PhD

High Rates of Vitamin D Deficiency in Acute Inpatient Rehabilitation Patients during Acute Inpatient Rehabilitation
Amee Ali, DO

A Retrospective Review of Chemoprophylaxis for Deep Venous Thrombosis (DVT) in Post-Operative Hip Fracture Patients
Jennifer Wu, MD, PhD

Functional Restoration in Burns A Comparison Between Enzymatic Escharysisation and Surgery
Davide Dalla Costa, MD

Group C – Rehabilitation Research Experience for Medical Students (RREMS)
4:30pm 6:00pm / Room: St. John’s 30/31

Factors Associated with Ambulatory and Transfer Ability: A Study from the National Spina Bifida Patient Registry
Nicholas Benjamin, BS

Saltbutamol Improves Fidelity of Neuromuscular Junction Transmission and Physical Function in Aged Mice
Elizabeth Page, BS

Effect of Independent Versus Common Goal Task Condition on Paediatric Arm Movement Performance
Gordon Ridgeway

The Effects of a Very Common BDNF Gene Variant on Motor Neurons Derived from Human Induced Pluripotent Stem Cells
Joseph Ruiz, BSc

The Human Preference for Symmetric Gait Disappears When One Leg is Constrained
Cam Smock, BS

Sunday, March 8, 2020

Group D – Spasticity, Stroke & TBI
9:15am-10:15am / Room: St. John’s 30

Treatment of Spastic Hemiparesis with Guided Self-Rehabilitation Contracts Combined with Simultaneous Injections of AbobotulinumtoxinA in Upper and Lower Limbs: Results from the ENGAGE Study
Jean-Michel Gricies, MD, PhD

Ipsilateral Intracortical Excitability and Hand Recovery After Stroke: An Integrative Neuroimaging Approach
Carmen Cirstea, MD, PhD

Augmented Reality Treadmill Training as a Modality to Improve Gait Rehabilitation Post-Stoke
Nabila Enam, MD

Diagnostic Utility of Electromyography to Assess Consciousness in Patients with Disorders of Consciousness: A Literature Review
Nathan Darji, DO

Group E – Health Policy & Systems
9:15am-10:15am / Room: St. John’s 30/31

The Quality of Rehabilitation Clinical Practice Guidelines: An Overview Study
Thiri Aunawsoogy, MD, NA

The Impact of CMS’ Mandatory Bundled Payment Model on Post-Acute Care DischargeDisposition of Patients with Lower Joint Replacements: A National Study
Lilianna Pizzin, PhD, JD

Knowledge, Attitudes and Practices of Health Personnel Regarding Rehabilitation in Inpatients, Honduras 2019
Mano Calderon, MD; Karla Funes, MD

Teaching Rehabilitation in Low Resource Countries
Germano Pestelli, MD

Best Paper Presentations
11:00am-12:00pm / Room: St. John’s 22

The Acute Impact of Lower Body Positive Pressure Treadmill Walking on Biological Markers of Joint Disease and Joint Pain in Individuals with Knee Osteoarthritis
Sarah Libfraind, BS

Prevalence of Obesity and Cardiometabolic Syndrome in SCI Patients in an Academic University Hospital System
Tsan-Hon Liou, MD, PhD; Joshua Elkin, MD

Perceived Benefits with the Implementation of a Cadaver-Based Ultrasound Procedure Workshop Curriculum in Physical Medicine and Rehabilitation (PM&R) Residents and Fellow Trainees
Sharon Bushi, MD

Mild Traumatic Brain Injury is Associated with Increased Dual Task Cost During Ambulation
Shanti Pinto, MD

Group F – Limb Loss & Therapeutics
2:45pm-3:45pm / Room: St. John’s 22

Injections of AbobotulinumtoxinA in Upper and Lower Limbs: Results from the ENGAGE Study
Ramesh Munjal, MS, FRCS

Functional Changes After Multilevel Surgery in Children with Cerebral Palsy
Javier Delgado Martinez

Monday, March 9, 2020

Rehabilitation Medicine Scientist Training Program (RMSTP) Presentations 10:30am – 11:30am / Room: Gatlin D

Wearable Electromyography Decoding for People with Tetraplegia Demonstrated with Smartphone Control and Virtual Reality Navigation
B. James Cotton, MD

Sodium Nitrite Ameliorates Skeletal Muscle Functional Ischemia in DMD
Sarah Simmons, MD

Modulating Spinal Reflex Pathway for Treatment of Detrusor Overactivity in Patients with Spinal Cord Injury by Stimulating Sacral Afferents at Sole of Foot
Abhinav Singh, MBBS

Group G – Diagnosis, MSK, SCI & Pediatrics
2:45pm-3:45pm / Room: St. John’s 22

Prevalence of Lateral Epicondylosis in Manual Wheelchair Users Participating in Adaptive Sports
Nabela Enam, MD

The Effect of Paraspinal Muscles on the Improvement of the Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
Andrea Cyr, DO

Prevalence of Lateral Epicondylosis in Manual Wheelchair Users Participating in Adaptive Sports
Natasha Bhatia, MD; Joshua Elkin, MD

The Effect of Paraspinal Muscles on the Improvement of the Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
R. James Cotton, MD

The Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
Kyle Ryan, MD

Microprocessor Knee Technology Reduces Odds of Incurring an Injurious Fall for Diabetic/ Dysvascular Amputees
Phil Stevens, MEd, CPO

Development of a Novel Task-Oriented Rehabilitation Program Using a Rehabilitation Robot
Yi Mei Chen

Somatosensory Evoked Potentials Suggest Differences in Underlying Neuropathology Between Subtypes of Multiple Sclerosis: White Matter Demyelination is Decreased in PPMs Compared to RRMS and SPMS
Sarah Simmons, MD

The Acute Impact of Lower Body Positive Pressure Treadmill Walking on Biological Markers of Joint Disease and Joint Pain in Individuals with Knee Osteoarthritis
Sarah Libfraind, BS

Prevalence of Obesity and Cardiometabolic Syndrome in SCI Patients in an Academic University Hospital System
Tsan-Hon Liou, MD, PhD; Joshua Elkin, MD

Perceived Benefits with the Implementation of a Cadaver-Based Ultrasound Procedure Workshop Curriculum in Physical Medicine and Rehabilitation (PM&R) Residents and Fellow Trainees
Sharon Bushi, MD

Mild Traumatic Brain Injury is Associated with Increased Dual Task Cost During Ambulation
Shanti Pinto, MD

Group F – Limb Loss & Therapeutics
2:45pm-3:45pm / Room: Gatlin E5

Early Amputation vs Limb Salvage: Comparing the Impact on Quality of Life
Ramesh Munjal, MS, FRCS

The Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
Andrea Cyr, DO

Prevalence of Lateral Epicondylosis in Manual Wheelchair Users Participating in Adaptive Sports
Natasha Bhatia, MD; Joshua Elkin, MD

The Effect of Paraspinal Muscles on the Improvement of the Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
R. James Cotton, MD

The Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
Kyle Ryan, MD

Microprocessor Knee Technology Reduces Odds of Incurring an Injurious Fall for Diabetic/ Dysvascular Amputees
Phil Stevens, MEd, CPO

Development of a Novel Task-Oriented Rehabilitation Program Using a Rehabilitation Robot
Yi Mei Chen

Somatosensory Evoked Potentials Suggest Differences in Underlying Neuropathology Between Subtypes of Multiple Sclerosis: White Matter Demyelination is Decreased in PPMs Compared to RRMS and SPMS
Sarah Simmons, MD

The Acute Impact of Lower Body Positive Pressure Treadmill Walking on Biological Markers of Joint Disease and Joint Pain in Individuals with Knee Osteoarthritis
Sarah Libfraind, BS

Prevalence of Obesity and Cardiometabolic Syndrome in SCI Patients in an Academic University Hospital System
Tsan-Hon Liou, MD, PhD; Joshua Elkin, MD

Perceived Benefits with the Implementation of a Cadaver-Based Ultrasound Procedure Workshop Curriculum in Physical Medicine and Rehabilitation (PM&R) Residents and Fellow Trainees
Sharon Bushi, MD

Mild Traumatic Brain Injury is Associated with Increased Dual Task Cost During Ambulation
Shanti Pinto, MD

Group F – Limb Loss & Therapeutics
2:45pm-3:45pm / Room: Gatlin E5

Early Amputation vs Limb Salvage: Comparing the Impact on Quality of Life
Ramesh Munjal, MS, FRCS

The Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
Andrea Cyr, DO

Prevalence of Lateral Epicondylosis in Manual Wheelchair Users Participating in Adaptive Sports
Natasha Bhatia, MD; Joshua Elkin, MD

The Effect of Paraspinal Muscles on the Improvement of the Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
R. James Cotton, MD

The Phantom Limb in Upper Extremity Limb Loss: Identifying Barriers to Prosthetic Limb Utilization
Kyle Ryan, MD

Microprocessor Knee Technology Reduces Odds of Incurring an Injurious Fall for Diabetic/ Dysvascular Amputees
Phil Stevens, MEd, CPO

Development of a Novel Task-Oriented Rehabilitation Program Using a Rehabilitation Robot
Yi Mei Chen

Somatosensory Evoked Potentials Suggest Differences in Underlying Neuropathology Between Subtypes of Multiple Sclerosis: White Matter Demyelination is Decreased in PPMs Compared to RRMS and SPMS
Sarah Simmons, MD
Poster Gallery

Receptions

We are showcasing a record number of poster and paper presentations at ISPRM 2020, including Spanish posters! Case reports and research studies are available on our event microsite (www.eventscribe.com/2020/ISPRM) and can be filtered by presenter, date or topic. We’ll be offering cocktails at each reception to help you unwind and have lively conversations with PM&R residents and leading researchers from around the world. Here’s what will be presented at each reception.

Friday, March 6, 2020
6:00pm-7:00pm / Room: Gatlin B
- Acquired Brain Injury other than Stroke and TBI
- Biomedical Sciences
- Biomechanics
- Genetics
- Molecular and Cellular Biology
- Neurosciences
- Physiology
- Electrodiagnostic
- Functioning & Disability
- ICF
- Classification Systems (ICD)
- Labor Market and Participation
- Social Sciences
- Biostatistics
- Economics
- Disability Studies
- Psychology
- Spasticity, Immobilization and Frailty
- Spinal Cord Injury (SCI)
- Stroke
- Traumatic Brain Injury (TBI)

Saturday, March 7, 2020
6:00pm-7:00pm / Room: Gatlin B
- Diagnosis (EMG & Ultrasound)
- Engineering & Technology
- Assistive Products
- Mobility
- Prosthetics and Orthotics
- Robotics
- Limb Loss
- Medical Student Summer Clinical Experience (MSSCE)
- Musculoskeletal (including spine and degenerative conditions)
- Pain
- Specialty Development
- Education
- Organizational Development
- Research
- Specific Target Groups
- Sports Medicine

Sunday, March 8, 2020
6:00pm-7:00pm / Room: Gatlin B
- Health Policy & Systems
- Community-Based Rehabilitation
- Finances, Cost-effectiveness
- Infrastructure and Resources
- National Policy and Law
- Rehabilitation Across the Continuum of Care
- Rehabilitation Management (accreditation and certification)
- Medical Rehabilitation (including cardiopulmonary)
- Multiple Sclerosis and Other Degenerative Diseases
- Osteoporosis and Sarcopenia
- Pediatrics
- Regenerative Rehabilitation
- Therapeutics
- Exercise
- Injections
- Integrative Medicine
- Pharmacological Agents
- Neurostimulation

Navigating towards a new future.
Networking Events

Committee & Business Meetings

Is your council not listed? Reach out to your council leadership for your meeting date and time!

Residency & Fellowship Program Directors (RFPD) Reception
Wednesday, March 4, 2020
5:00pm-7:00pm
Room: Gatlin E 1/2

Fellowship & Job Fair
Thursday, March 5, 2020
5:30pm-7:00pm
Room: Gatlin D

Joint Chairs & Administrative Directors Session & Dessert Reception
Thursday, March 5, 2020
7:00pm-8:30pm
Room: St. John’s 25

Poster Gallery Reception
Friday, March 6, 2020
6:00pm-7:00pm
Room: Gatlin B

Opening Ceremony & President’s Welcome Reception
Friday, March 6, 2020
7:00pm-9:00pm
Room: Gatlin C

Poster Gallery Reception
Saturday, March 7, 2020
6:00pm-7:00pm
Room: Gatlin D

ISPRM Assembly of Individual Members
Saturday, March 7, 2020
6:00pm-7:00pm
Room: Gatlin E

Resident/Fellow Networking Night
RSVP required
Saturday, March 7, 2020
7:30pm-9:30pm
Location: Topgolf Orlando
92925 Universal Blvd.
Orlando, Florida 32819

AAP Annual Member Caucus & Awards
Sunday, March 8, 2020
7:00am-8:30am
Room: Gatlin D

ISPRM Assembly of Delegates
Sunday, March 8, 2020
2:00pm-6:00pm
Room: St. John’s 30/31

ISPRM 2020 Networking Night
Sunday, March 8, 2020
7:00pm-10:00pm
Location: SeaWorld Orlando
7007 Sea World Drive,
Orlando, Florida 32821

Closing Ceremony
Monday, March 9, 2020
12:00pm-1:00pm
Room: Gatlin D

Wednesday, March 4, 2020
RFPO Council Meeting
4:30pm-5:15pm, Room: Gatlin E 1/2

Thursday, March 5, 2020
• ISPRM Pre-Committee Meeting
  8:00am-9:00am, Room: Suwanee 20
• ISPRM Awards & Nominating Committee
  9:00am-9:30am, Room: Suwanee 18
• ISPRM Disaster Rehabilitation Committee
  9:00am-12:00pm, Room: St. John’s 24
• ISPRM Publications & Communications Committee
  9:00am-11:15am, Room: Suwanee 20
• ISPRM-WHO Working Group I
  9:00am-10:30am, Room: Suwanee 19
• ISPRM Education Committee
  9:15am-11:30am, Room: Suwanee 21
• ISPRM Congress Scientific Committee (ISPRM 2021 Lisbon)
  9:30am-10:30am, Room: Suwanee 18
• ISPRM-WHO-LC
  10:30am-12:30pm, Room: Suwanee 19
• ISPRM Statistics Committee
  11:15am-12:45pm, Room: Suwanee 18
• WFYT/TF Board Meeting
  11:30am-11:55pm, Room: Suwanee 21
• ISPRM Clinical Sciences & Research Committee
  11:30am-1:30pm, Room: Suwanee 20
• AAP Membership Committee
  12:30pm-2:00pm, Room: TBD
• InSci & ISPRM-WHO-LC Subcommittee II
  12:30pm-4:30pm, Room: St. John’s 24
• IEDF Committee
  12:45pm-1:30pm, Room: Suwanee 18
• AAP Education Committee
  1:00pm-2:30pm, Room: Gatlin E3
• ISPRM Editorial Board
  1:00pm-3:30pm, Room: Suwanee 21
• ISPRM Council of Past Presidents
  1:30pm-2:15pm, Room: Suwanee 18
• International Exchange Committee
  2:00pm-3:00pm, Room: Suwanee 19
• Physical Activity for Persons with Disabilities Task Force
  2:30pm-3:45pm, Room: Suwanee 18
• AAP SDPO Committee
  2:30pm-4:00pm, Room: Gatlin E3
• ISPRM Audit & Finance Committee
  3:00pm-4:00pm, Room: Suwanee 19
• ISPRM-WHO-LC Working Group
  3:30pm-4:30pm, Room: Suwanee 21
• UN Liaison Committee
  3:45pm-5:45pm, Room: Suwanee 18
• AAP Leadership Development & Recognition Committee (LDRC)
  4:00pm-5:00pm, Room: TBD
• Raising Rehabilitation Awareness in Medical Journals Task Force
  4:00pm-7:00pm, Room: TBD
• AAP Veterans Affairs Council
  4:30pm-5:30pm, Room: Gatlin E3
• Clarifi Task Force
  4:30pm-7:00pm, Room: St. John’s 24
• ISPRM Women & Health Task Force
  5:00pm-6:30pm, Room: Suwanee 20
• ISPRM-WHO Liaison Committee
  6:30pm-7:30pm, Room: Suwanee 20
• AAP Program Committee
  7:15pm-9:15pm, Room: Gatlin E1
• AAP Chairs Council
  8:30pm-9:00pm, Room: St. John’s 25
• ISPRM President’s Cabinet & Executive Committee
  7:30pm-10:00pm, Room: Suwanee 19

Friday, March 6, 2020
• ISPRM Task Force
  8:00am-9:30am, Room: TBD
• ISPRM Task Force
  10:00am-11:30am, Room: TBD
• ISPRM Task Force
  1:30pm-3:30pm, Room: TBD
• AAP Task Force
  4:30pm-5:30pm, Room: TBD
• AAP Task Force
  6:30pm-7:00pm, Room: TBD
• AAP Task Force
  8:30pm-9:00pm, Room: TBD

Saturday, March 7, 2020
• Cancer Rehab Special Interest Group
  7:45am-9:00am, Room: St. John’s 27
• AAP Medical Student Council
  12:00pm-1:30pm, Room: TBD
• Cochrane Rehabilitation Committee
  Advisory Board
  12:00pm-2:00pm, Room: St. John’s 27
• AAP Program Coordinators Council
  1:00pm-1:30pm, Room: St. John’s 27
• Cochrane Rehabilitation Executive Committee
  3:30pm-6:00pm, Room: St. John’s 27

Sunday, March 8, 2020
• InSci Mini Workshop
  7:30am-9:00am / 12:00pm-2:00pm, Room: TBD
• AAP Medical Student Educators Council
  10:15am-11:00am, Room: Butler
• ISPRM-WHO Task Force
  7:30am-9:30am, Room: TBD
• AAP Task Force
  8:00am-9:30am, Room: TBD
• ISPRM Task Force
  10:00am-11:30am, Room: TBD
• AAP Task Force
  1:00pm-3:00pm, Room: TBD
• AAP Task Force
  3:30pm-5:30pm, Room: TBD
• AAP Task Force
  6:30pm-8:00pm, Room: TBD
• AAP Task Force
  9:00am-10:30am, Room: TBD
• AAP Task Force
  10:30am-12:00pm, Room: TBD
• AAP Task Force
  1:00pm-2:00pm, Room: TBD
• AAP Task Force
  2:30pm-4:00pm, Room: TBD
• AAP Task Force
  4:30pm-6:00pm, Room: TBD
• AAP Task Force
  6:30pm-8:00pm, Room: TBD

Monday, March 9, 2020
• InSci Scientific Committee
  7:30am-9:00am, Room: St. John’s 28
• Foundation for PM&R Board
  7:00am-10:00am, Room: St. John’s 26
• ISPRM Executive Committee II
  9:00am-10:30am, Room: St. John’s 28
• AAP Board of Trustees
  1:00pm-5:00pm, Room: Boardroom

Tuesday, March 10, 2020
• AAP Board of Trustees
  7:00am-11:30am, Room: Boardroom
This is the world's largest interdisciplinary rehabilitation research conference. With steady growth and increasing interest each year, this is THE event for the science behind rehabilitation and the passionate, warm, and welcoming community where ALL are welcomed. For maximum learning, CME/CEUs, value, networking & connecting — do not miss: ACRM.org/2020

Maximize your patient’s recovery

For more than 35 years, our patients have come to know us as the first choice for traumatic brain injury, spinal cord injury, stroke, orthopedic and neuro rehabilitation. From hospital to home, we provide a continuum of care to help drive your patient’s road to recovery.

BSWRehab.com/Continuum

Photography may include models or actors and may not represent actual patients. Physicians provide clinical services as members of the medical staff at Baylor Scott & White Institute for Rehabilitation and are neither employees nor agents of Baylor Scott & White Institute for Rehabilitation, Baylor Health Care System, Scott & White Health or any of its affiliates. Baylor Scott & White Institute for Rehabilitation is part of a comprehensive inpatient and outpatient rehabilitation network formed through a joint venture between Baylor Institute for Rehabilitation at Gaston Episcopal Hospital and Select Physical Therapy Texas Limited Partnership (BAIR). GP-8509 Baylor Scott & White Health.
1970: Cathedral Rehabilitation Hospital celebrates its grand opening in Jacksonville, Fla.

1990: The first rehabilitation outpatient center is established within Memorial Healthcare Plaza.

1992: Researchers from the University of Florida College of Public Health & Health Professions begin to research at Brooks.

2006: University of North Florida names College of Health after Brooks Rehabilitation.

2008: Brooks Brain Injury Clubhouse opens.

2010: The first Brooks Neuro Recovery Center opens.

2013: The Bartram Park campus opens.

2013: Halifax Health | Brooks Rehabilitation Center for Inpatient Rehabilitation opens.

2015: Brooks home health services expand with the acquisition of Americare.

2016: University Crossing skilled nursing facility opens.

2017: Helen’s House, patient and family housing, opens.

2019: The inpatient hospital celebrates 25 years of caring for patients.

1982: J. Brooks Brown, MD, oversees Memorial’s acquisition of six licenses from Cathedral Rehabilitation, establishing the area’s only hospital-based rehabilitation facility.

1994: Memorial Rehabilitation Center becomes Memorial Rehabilitation Hospital.

2002: Doug Baer becomes president and CEO after J. Brooks Brown, MD, retires.

2005: Brooks Physicians Practice (now Brooks Medical Group) opens.

2007: The Brooks Residency and Fellowship Program is implemented.

2008: Brooks begins offering home health as a service with the acquisition of Home Care Advantage.

2010: The Brooks Rehabilitation Clinical Research Center is established.

2015: The Brooks Rehabilitation Aphasia Center opens.

2015: Jacksonville University names College of Health Sciences after Brooks Rehabilitation.

2016: Brooks Rehabilitation Hospital achieves Magnet Certification.

2018: In January, Brooks Rehabilitation mourns the passing of founder J. Brooks Brown, MD, at age 97.

We are excited to share with you the winners of the 2020 AAP Awards! These individuals have made significant contributions to the specialty of physiatry, the AAP and the rehabilitation community at large.

2020 AAP AWARD WINNERS

DISTINGUISHED ACADEMICIAN
Gerard Franciscus, MD
LIT Health Science Center at Houston, McGovern Medical School / TIRR Memorial Hermann

MCLEAN OUTSTANDING RESIDENT/ FELLOW AWARD
Allison Bean, MD, PhD
University of Pittsburgh Medical Center

AAP OUTSTANDING SERVICE AWARD
Danielle Pernet Karimi, MD
University of California, Irvine

AAP OUTSTANDING SERVICE AWARD
Eric Wisotzky, MD
University of Washington/ VA Puget Sound Health Care System

AAP OUTSTANDING SERVICE AWARD
David Morgenroth, MD
University of Washington/ VA Puget Sound Rehabilitation Network

PUBLIC SERVICE AWARD
Victor Calise
New York City, Mayor’s Office for People with Disabilities

EARLY CAREER ACADEMICIAN
Ellen Casey, MD
Georgetown University/ MedStar National Rehabilitation Network

FELLOW AWARD
Shane Pinto, MD
Carolina Rehabilitation/ Atrium Health

“Injuries of Traumatic Brain Injury is Associated with Increased Dual Task Cost During Ambulation”

RESIDENT
Natasha Bhatia, MD and Joshua Elkin, MD
Emory University

“Prevalence of Obesity and Cardiometabolic Syndrome in SCI Patients in an Academic University Hospital System”

FACULTY
Shani Pinto, MD
Carolina Rehabilitation/ Atrium Health

“Mild Traumatic Brain Injury is Associated with Increased Dual Task Cost During Ambulation”

MEDICAL STUDENT
Sarah Libfraind, BS
Feinberg School of Medicine at Northwestern University

“The Acute Impact of Lower Body Positive Pressure Treadmill Walking on Biological Markers of Joint Disease and Joint Pain in Individuals with Knee Osteoarthritis”

BEST PAPER AWARDS

INNOVATION & IMPACT AWARD
Reynaldo Rey-Matias, PTRP, MD, MSHMS
St. Luke’s Medical Center College of Medicine

DISTINGUISHED ACADEMICIAN
Kristian Ragnonsson, MD
Icahn School of Medicine at Mount Sinai

FELLOW
Sharon Bush, MD
Rutgers New Jersey Medical School/ Kessler Institute of Rehabilitation

“Perceived Benefits with the Implementation of a Cadaver-Based Ultrasound Procedure Workshop Curriculum in Physical Medicine and Rehabilitation (PM&R) Resident and Fellow Trainees”

RESIDENT
Natasha Bhatia, MD and Joshua Elkin, MD
Emory University

“Prevalence of Obesity and Cardiometabolic Syndrome in SCI Patients in an Academic University Hospital System”

FACULTY
Shani Pinto, MD
Carolina Rehabilitation/ Atrium Health

“Mild Traumatic Brain Injury is Associated with Increased Dual Task Cost During Ambulation”

MEDICAL STUDENT
Sarah Libfraind, BS
Feinberg School of Medicine at Northwestern University

“The Acute Impact of Lower Body Positive Pressure Treadmill Walking on Biological Markers of Joint Disease and Joint Pain in Individuals with Knee Osteoarthritis”
OSTEOPOROSIS-RELATED REHABILITATION RESEARCH GRANT
Matthew Sherrier, MD
University of Pittsburgh Medical Center

“Impact of Leukemia Inhibitory Factor on Bone Health in Duchenne Muscular Dystrophy”

AMERICAN JOURNAL OF PHYSICAL MEDICINE & REHABILITATION (AJPM&R) AWARDS

EXCELLENCE IN RESEARCH WRITING AWARD
Sara Cucurullo, MD; Talya Fleming, MD; William Kostis, MD; Christine Greiss, DO; Martin Giazi, MD, PhD; Anne Eckert, AuD, MBA, CCC-A; Arlen Razin Bay, PT; Rossam Scarpaci, RN; Nora Cosgrove, RN, CCRC; Trayon Beavers, BS; Javier Cabrera, PhD; Davit Sargyan, MS; John Kostis, MD, PhD

“Impact of a Stroke Recovery Program Integrating Modified Cardiac Rehabilitation on All-Cause Mortality, Cardiovascular Performance and Functional Performance”

ERNEST W. JOHNSON EXCELLENCE IN RESEARCH WRITING IN-TRAINING AWARD
Yen-Ting Chen, PhD; Shengai Li, MS; Craig DiTommaso, MD; Ping Zhou, PhD; Sheng Li, MD, PhD

“Possible Contributions of Ipsilateral Pathways from the Contralateral Motor Cortex to the Voluntary Contraction of the Spastic Elbow Flexors in Stroke Survivors: A TMS Study”

OUTSTANDING REVIEWER
Matthew Bartels, MD, MPH
Montefiore Medical Center / Albert Einstein College of Medicine

THE FOUNDATION FOR PM&R AWARDS

OSTEOPOROSIS-RELATED REHABILITATION MIDCAREER INVESTIGATOR GRANT
Adam Tenforde, MD
Harvard Medical School / Spaulding Rehabilitation Hospital

“Evaluating the Relative Influence of Bone and Foot Strength to Metatarsal Bone Stress Injuries in Athletes”

2020 AAP PROGRAM FOR ACADEMIC LEADERSHIP (PAL) GRADUATES
Daniel Cushman, MD
University of Utah

Jayne Donovan, MD
Rutgers New Jersey Medical School / Kessler Institute for Rehabilitation

Sarah Eckmeyer, MD
University of Kansas Health System

Miguel Escalon, MD, MPH
Icahn School of Medicine at Mount Sinai

Sandra Heim, MD
University of Michigan

Daniel Herman, MD, PhD
University of Florida

John Norbury, MD
East Carolina University

Adam Tenforde, MD
Spaulding Rehabilitation Hospital

OTHER RECOGNITION

2020 AAP PROGRAM FOR ACADEMIC LEADERSHIP (PAL) GRADUATES

Sara Cucurullo, MD, Member-at-Large
Rutgers Robert Wood Johnson Medical School / JFK Johnson Rehabilitation Institute

Laura Kezar, MD, AAMC Representative
University of Alabama at Birmingham

Mooyeon Oh-Park, MD, Program Committee Chair
Burke Rehabilitation Hospital / Montefiore Health System

Neal Rakesh, MD, RFC Chair
New York Presbyterian Hospital / Columbia and Cornell

John Whyte, MD, PhD, Public Policy Committee Chair
Moss Rehabilitation Research Institute

THANK YOU TO THE FOLLOWING INDIVIDUALS FOR THEIR SERVICE ON THE AAP’S BOARD OF TRUSTEES!

CONT.
Visit the ISPRM 2020 state-of-the-art Exhibit Hall, with 83 leading companies featuring the latest technology, services and products in physiatry and rehabilitation. We’re also hosting fun activities in the Exhibit Hall that you won’t want to miss!

**Happening in the Exhibit Hall**

**Exhibit Hours**
- **Friday, March 6, 2020** – 10:00am-8:00pm
- **Saturday, March 7, 2020** – 10:00am-4:30pm
- **Sunday, March 8, 2020** – 10:00am-4:30pm

**Complimentary Coffee Breaks:**
- **Friday, March 6, 2020** - 10:15am-11:00am & 3:45pm-4:30pm
- **Saturday, March 7, 2020** - 10:15am-11:00am & 3:45pm-4:30pm
- **Sunday, March 8, 2020** - 10:15am-11:00am & 3:45pm-4:30pm

**Complimentary Lunch:**
- **Saturday, March 7, 2020** - 12:00pm-1:30pm

**Entertainment**

**Pet a Vet Dog**
Stop by the AAP Experience Booth #424 to meet a furry friend. Tweet a pic of Clove, the Vet Dog, with the hashtag #ISPRM2020 or make a donation and the AAP will match!
- **Friday, March 6, 2020** - 12:00pm - 4:00pm
- **Saturday, March 7, 2020** - 10:00am-12:00pm

The service dog programs of America’s VetDogs were created to provide enhanced mobility and renewed independence to veterans, active-duty service members, and first responders with disabilities, allowing them to once again live with pride and self-reliance. America’s VetDogs specializes placing highly-skilled service and guide dogs to individuals with physical injuries, PTSD, hearing and vision loss, and seizures. All services are provided at no cost.

**Names & Faces**
Stop by the AAP Experience Booth #424 and our artists will create a quick digital caricature of your face or tropical painting of your name that you can take home with you!
- **Saturday, March 7, 2020** - 12:00pm-4:00pm
- **Sunday, March 8, 2020** - 12:00pm-4:00pm

**Book Signing & Photo Lineup**
Stop by the Demonstration Pod in the Exhibit Hall to purchase a book and get an autograph or photo with the authors!
- **Physical Medicine and Rehabilitation Board Review: Fourth Edition**
  - Sara Cuccurullo, MD  
  - Saturday, March 7, 2020, 10:15am-11:00am

**Demonstration Pods**
Join the following companies for small group presentations and hands-on demonstrations. Coffee and light refreshments will be served. There is no fee to attend, registration is not required, and seating is available on a first-come, first-serve basis.
- **Friday, March 6, 2020**
  - 10:15am-10:45am Join us to learn more about our Prometra® drug delivery system as an optimal solution for the treatment of your patients’ numerous neurological disorders including pain and spasticity.
  - 12:00pm-12:45pm Flashwave® therapy is a revolution in regenerative medicine. Learn how Flashwave allows trained users to non-invasively activate endogenous muscular stem cells, which induces healing on a cellular level.
  - 3:45pm-4:30pm Join Atul Patel, MD for Allergan’s chronic migraine hands-on demo pod.
- **Saturday, March 7, 2020**
  - 10:15am-11:00am Join Christopher Consell, MD and Monica Verduzco-Gutierrez, MD for Allergan’s spasticity and movement disorders hands-on demo pod.
  - 3:45pm-4:30pm EmCyte Corporation is the world leader in Platelet Rich Plasma and Progenitor Stem Cell Biologics with products that meet the highest achievable performance standard.

**Additional Information**
- **Named Best Rehab Facility**
- **ACCREDITED BY**
- **More than 40 Years of Providing Quality Rehabilitation to obtain optimal function and Independence.**
- **Comprehensive Inpatient, Outpatient Adult and Pediatric Rehabilitation Services**
- **ACCREDITATION COUNCIL FOR GRADUATE CONTINUING MEDICAL EDUCATION (ACGME) PROGRAMS INCLUDE:**
  - Physical Medicine & Rehabilitation Residency Program
  - Pain Medicine Fellowship
  - Brain Injury Medicine Fellowship
- **SPECIALIZED CARE:**
  - Neurological Disorders, Brain Injuries, Stroke, Amputation, Orthopedics, Balance Disorders, Cardiopulmonary Disorders

**JFK Johnson Rehabilitation Institute**

**The Leader in Providing Quality Rehabilitation Care**

- **JFKJOHNSON.org | (732) 321-7733**

**Named Best Rehab Facility**

- More than 40 Years of Providing Quality Rehabilitation to obtain optimal function and Independence.
- Comprehensive Inpatient, Outpatient Adult and Pediatric Rehabilitation Services

**ACCREDITATION COUNCIL FOR GRADUATE CONTINUING MEDICAL EDUCATION (ACGME) PROGRAMS INCLUDE:**

- Physical Medicine & Rehabilitation Residency Program
- Pain Medicine Fellowship
- Brain Injury Medicine Fellowship

**SPECIALIZED CARE:**
- Neurological Disorders, Brain Injuries, Stroke, Amputation, Orthopedics, Balance Disorders, Cardiopulmonary Disorders

**JFKJOHNSON.org | (732) 321-7733**
Sponsored Events

**Lunch & Learn Symposiums**

**Location:** Gatlin A1

Grab lunch, hosted by the following companies, and enjoy a 60-minute presentation exploring hot topics in physiatry. There is no fee to attend, registration is not required, and seating is available on a first-come, first-serve basis.

- **Friday, March 6, 2020, 12:00pm-1:00pm**
  Enjoy a complimentary lunch and educational program: Learn About a Treatment Option for Pediatric Spasticity, presented by Sally Evans, MD.

- **Saturday, March 7, 2020, 12:00pm-1:00pm**
  Enjoy a complimentary lunch and educational program: Discover a Proven Therapy for Adult Patients with Chronic Sialorrhea presented by Fernando Pagan, MD.

- **Sunday, March 8, 2020, 12:00pm-1:00pm**
  Enjoy a complimentary lunch and educational program: Muscle Selection Pattern and Dosing in Poststroke Lower Limb Spasticity presented by Alberto Esquenazi, MD.

**Happy Hour Symposiums**

**Location:** Gatlin A1

After your long day of inspiring sessions, enjoy a 60-minute presentation over cocktails and other light refreshments. There is no fee to attend, registration is not required, and seating is available on a first-come, first-serve basis.

- **Friday, March 6, 2020, 6:00pm-7:00pm**
  Enjoy a happy hour and educational program brought to you by Merz.

- **Saturday, March 7, 2020, 6:00pm-7:00pm**
  Enjoy a happy hour and educational program brought to you by Johns Hopkins Rehabilitation Network.

**Spasticity Workshop Breakfast & Lunch**

**Thursday, March 5, 2020 7:30am-8:00am (breakfast); 12:00pm-1:00pm (lunch)**

Room: TBD

Attendees of the “Spasticity Management: Where Are We Now?” workshop are invited to attend a coffee break and enjoy a complimentary lunch and educational program.

**Administrative Directors Networking Lunch**

**Thursday, March 6, 2020 12:00pm-1:00pm / Room: TBD**

Administrative and finance Directors are invited to join Merz for a networking lunch.

**REMS & MSSCE Dessert Reception**

**Friday, March 6, 2020 7:00pm-8:00pm / Room: TBD**

Medical students who participated in the AAP’s summer externship programs — the Rehabilitation Research Experience for Medical Students (REMS) and Medical Student Summer Clinical Externship (MSSCE) — are invited for a dessert reception hosted by longstanding externship supporter the Craig H. Neilson Foundation.

**Resident / Fellow Networking Night**

**RSVP required**

**Saturday, March 7, 2020 7:30pm-9:30pm**

Location: Topgolf Orlando

All residents and fellows are invited to enjoy complimentary drinks, food and friendly competition. This event is only open to current PM&R residents and fellows.

Complimentary shuttles will be provided from the Rosen Shingle Creek.

---

**Visit us at Booth 416!**

---

**LEADING REHABILITATIVE RESEARCH RANKED #5 IN NIH FUNDING AMONG PUBLIC UNIVERSITIES**

---

**Learn more at kumc.edu/pmr**
Spaulding and its Department of Physical Medicine & Rehabilitation at Harvard Medical School support the work of more than 200 scientists, fellows, and research staff. Our pioneering investigators are internationally renowned leaders who publish nearly 400 research reports a year in prestigious medical journals—advancing the science of recovery and transforming the lives of rehabilitation patients.

Through Spaulding Research Institute, we can—and we will—revolutionize recovery in our lifetime. We will advance translational research on Brain Injury and Concussion, Spinal Cord Injury, Stroke, Musculoskeletal Injury, Chronic Pain and other debilitating conditions affecting one billion people globally.

“We will make impossible recoveries possible by accelerating scientific breakthroughs at a record-setting pace.”

Dr. Ross Zafonte
Senior Vice President of Medical Affairs, Research and Education, Spaulding Rehabilitation Network
Earle P. and Ida S. Charlton Professor and Chair, Department of Physical Medicine and Rehabilitation, Harvard Medical School

The University of Miami Miller School of Medicine 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 physicists 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. 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 College” 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, NINDS/RD South Florida Spinal Cord Injury Model System
University of Miami Leonard M. Miller School of Medicine
1120 NW 14th Street, CRC 938
Miami, FL 33136
Phone: (305) 243-9515 Fax: (305) 243-4650
Email: dgater@miami.edu
Website: http://jpuma.mcmd.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.
American Association of Neuromuscular & Electrophysiology Medicine (AANEM)
Rochester, Minnesota
www.aanem.org
Booth 408
AANEM is a nonprofit membership association whose members are dedicated to improving the quality of care for patients with neuromuscular and related disorders. We are offering special incentives to residents and fellows who would like join and submit abstracts to our 2020 meeting in Orlando!
American Board of Physical Medicine & Rehabilitation (ABPMR)
Rochester, Minnesota
www.abpmr.org
Booth 105
ABPMR is the certifying board for PM&R and seven subspecialties in the United States. The ABPMR’s mission is to promote the public welfare by setting competency standards for physiatry and its subspecialties through the certification process, including initial certification and continuing certification requirements.
American Congress of Rehabilitation Medicine (ACRM)
Reston, Virginia
www.acrm.org
Booth 213
ACRM is a non-profit organization of rehabilitation professionals dedicated to serving people with disabling conditions by supporting research that promotes health, independence, productivity, quality of life, and meeting both the needs of rehabilitation clinicians and people with disabilities.
Arecthe
Ashburn, Virginia
www.arecthe.com
Booth 414
Arecthe has a strong commitment to quality and innovation. The company’s ZeroG Gait and Balance System offers safety to patients as they practice functional activities with dynamic body-weight support and full protection. Arecthe’s newest innovation is Ovation, an interactive treadmill system for patients up to 700 lbs.
Association of Academic Physiatrists
Cleveland, Maryland
www.physiatry.org
Booth 424
The AAP is proud to be hosting the ISPHM 2020 World Congress Stop by the AAP Experience Booth for fun activities throughout the meeting. Visit Clove the VetDog and tweet a picture for a donation. Get your digital caricature or name drawing from our talented artists. Snap a picture at the photo booth during the President’s Reception, snap on AAP cookies, and more!
Baylor Institute for Rehabilitation
Dallas, Texas
www.baylorhealth.com/rehab
Booth 111
Baylor Institute for Rehabilitation is dedicated to helping patients find their way back from all types of injuries, illnesses, and chronic and acute conditions. We offer a network of inpatient rehabilitation facilities and outpatient clinics throughout Dallas/Fort Worth.
Boxed Medical System, Inc
Shirley, New York
Booth 05
Based on decades of research showing the power of music in treating movement disorders, Brooks brings Music-Assisted Therapy to the Gait Trainer 3. Neurologic music, biofeedback and repetition of treadmill training are together for the first time to enhance neuromuscularity and recover lost movement.
Brooks Rehabilitation
Jacksonville, Florida
www.brookssystem.org
Booth 231
For more than 50 years, Brooks Rehabilitation has been a resource for physical rehabilitation services. Brooks operates a 160-bed inpatient hospital, a home care agency, 39 outpatient clinics, an inpatient unit at Halifax Health, a physician group, a research center, two skilled nursing facilities, assisted living, memory care and community programs.
Burke Rehabilitation Hospital
White Plains, New York
www.burke.org
Booth 409
Burke Rehabilitation Hospital in New York has been a leader in acute medical rehabilitation for 100 years.
Cadwell Industries, Inc
Kennesaw, Washington
www.cadwell.com
Booth 314
Cadwell Sierra Summit EMG system - with 2, 6 or 12 channels, dual speakers, StimTrolr hardware and electrode diagnostics, dual stim, EMG compatibility, CadLink™ data management, single fiber EMG, GEMS and the outstanding report generator feature you expect from Cadwell.
Canadian Association of Physical Medicine & Rehabilitation
Ontario, Canada
www.capmra.org
Booth 410
CASPI International
Tucson, Arizona
www.caspif.org
Booth 312
Founded in 1966, CASPI has been enhancing the quality of services in medical rehabilitation through standards reflecting best practices and leadership in the field internationally. CASPI focuses on helping providers implement an internal process of continuous quality improvement and person-centered services to achieve outcomes desired by persons served.
Carolina Rehabilitation
Charlotte, North Carolina
www.astruction.org/rehabilitation
Booth 211
Atrium Health’s Carolina Rehabilitation has the technology, specialists and resources to help you achieve the highest level of functioning, and get you home as quickly as possible. With four inpatient hospitals and more than 20 outpatient physician and therapy locations, we provide complete, comprehensive rehabilitative care.
CNS Vital Signs
Morrisville, North Carolina
www.crvs.com
Booth 440
Since 2005, CNS Vital Signs has been a world leader in providing clinicians in-office and out-of-office/Telemedicine computerized-neuropsychological testing solutions. Learn how our reimbursable tools and technology platform can help you evaluate, manage and track neurocognitive status.
Defense and Veterans Brain Injury Center
James A. Haley Veterans Hospital
Tampa, Florida
www.dbic.dcoe.mil
Booth 438
As the traumatic brain injury (TBI) Pathway of Care manager within the Military Health System (MHS), the Defense and Veterans Brain Injury Center promotes state-of-the-science care from point-of-injury to reintegration for service members, veterans, and their families to prevent and mitigate consequences of mild to severe TBI.
Demos Medical Publishing
New York
www.demosmedical.com
Booth 407
For more than 25 years, Demos Medical Publishing has served the information needs of medical professionals. We publish high-quality books and digital products for physicians and other healthcare providers, and have established an international reputation for excellence in our core areas of neurology, stroke, functional medicine, rehabilitation, pathology, and oncology.
Ekko Bioscience
Richmond, California
www.ekkosbiology.com
Booth 232
We have empowered people for over ten years with exoskeletons designed to enhance natural abilities and improve quality of life. Designed to help patients stand and walk during rehabilitation, EkkoNIR helps clinicians promote correct movement patterns in all phases of recovery and challenges patients as they progress toward independent ambulation.
CNS Vital Signs
Morrisville, North Carolina
www.crvs.com
Booth 440
Since 2005, CNS Vital Signs has been a world leader in providing clinicians in-office and out-of-office/Telemedicine computerized-neuropsychological testing solutions. Learn how our reimbursable tools and technology platform can help you evaluate, manage and track neurocognitive status.
Defense and Veterans Brain Injury Center
James A. Haley Veterans Hospital
Tampa, Florida
www.dbic.dcoe.mil
Booth 438
As the traumatic brain injury (TBI) Pathway of Care manager within the Military Health System (MHS), the Defense and Veterans Brain Injury Center promotes state-of-the-science care from point-of-injury to reintegration for service members, veterans, and their families to prevent and mitigate consequences of mild to severe TBI.
Demos Medical Publishing
New York
www.demosmedical.com
Booth 407
For more than 25 years, Demos Medical Publishing has served the information needs of medical professionals. We publish high-quality books and digital products for physicians and other healthcare providers, and have established an international reputation for excellence in our core areas of neurology, stroke, functional medicine, rehabilitation, pathology, and oncology.
Ekko Bioscience
Richmond, California
www.ekkosbiology.com
Booth 232
We have empowered people for over ten years with exoskeletons designed to enhance natural abilities and improve quality of life. Designed to help patients stand and walk during rehabilitation, EkkoNIR helps clinicians promote correct movement patterns in all phases of recovery and challenges patients as they progress toward independent ambulation.
EmCyte Corp
Fort Myers, Florida
www.emcyte.com
Booth 130
EmCyte Corporation is the world leader in Platelet Rich Plasma and Progenitor Stem Cell Biologics with products that meet the highest achievable performance standard. With over 20 years of experience, EmCyte has remained committed to innovation that truly makes a clinical difference.
Enmerex2
Phoenix, Arizona
www.enmerex2.co
Booth 239
Enmerex2 non-imitating formula produces complete evacuation usually within 2-15 minutes*. Easy twist-off tip, also available with soothing Benzocaine. Enmerex2 is effective for bowel care needs associated with spinal cord injury and disease, multiple sclerosis, traumatic brain injury, spinal bifida, long-term care, stroke and general constipation.
EkoSolutions Inc
Chicago, Illinois
www.mysucbi.com
Booth 433
Flashwave therapy is a revolution in regenerative medicine. Flashwave® allows trained users to non-invasively activate endogenous muscular stem cells, which induces healing on a cellular level - without the need for surgery or pharmaceuticals.
Enmerex2
Phoenix, Arizona
www.enmerex2.co
Booth 239
Enmerex2 non-imitating formula produces complete evacuation usually within 2-15 minutes*. Easy twist-off tip, also available with soothing Benzocaine. Enmerex2 is effective for bowel care needs associated with spinal cord injury and disease, multiple sclerosis, traumatic brain injury, spinal bifida, long-term care, stroke and general constipation.
EkoSolutions Inc
Chicago, Illinois
www.mysucbi.com
Booth 433
Flashwave therapy is a revolution in regenerative medicine. Flashwave® allows trained users to non-invasively activate endogenous muscular stem cells, which induces healing on a cellular level - without the need for surgery or pharmaceuticals.
across central Pennsylvania. Penn State Health is a multi-hospital health system that is helping qualified individuals to walk again. Its Indego® exoskeleton is being used in conjunction with sensor technology and sophisticated control strategies. Indego® is an exoskeleton which allows gait movement. It maintains or regains their freedom of movement.

Ottobock

Aust, Texas

www.ottobock.com

Booth 133

Ottobock uses innovative technology, superior service, and world-class education to help people with physical mobility challenges. Established in 1979 in Germany and currently in its third generation as a privately held company, Ottobock offers products and services to help people maintain or regain their freedom of movement.

Nu-Tek Health

Shenzhen, China

www.nutekmedical.com

Booth 09

Nu-Tek is a pioneer of complete solution provider in the area of physiotherapy rehabilitation for relieving pain caused by musculoskeletal, neurological and soft tissue disorders. Collaborating with top-class specialists and physiotherapists, we continuously focus on pain-relief researches and innovation of therapeutic applications to provide complete solution for clinicians and patients.

Nu-Tek Health

Shenzhen, China

www.nutekmedical.com

Booth 09


Safety Therapeutics

Rochester, Georgia

www.safetyv.com

Booth 207

Saol Therapeutics (pronounced “Sáil”) is a privately-held, specialty biotech pharmaceutical company with operations in both Boston, MA and Dublin, Ireland. Saol, focused on neuroscience (spasticity) and rare diseases, is committed to providing and advancing the therapeutic options for musculoskeletal disorders and myofascial pain syndromes.

Shirley Ryan Abilitylab

Chicago, Illinois

www.usalab.org

Booth 07

Shirley Ryan Abilitylab, formerly the Rehabilitation Institute of Chicago (RIC), is the nation’s #1-ranked provider of comprehensive physical medicine and rehabilitation care to patients from around the world and is the leader in research and development of the cutting-edge treatments and technologies in its field.

Spaulding Rehabilitation Network

Harvard Medical School - Department of PM&R

Charlestown, Massachusetts

www.spauldingrehab.org

Booth 108

Spaulding Rehabilitation Hospital is the home of scientific, clinical and translational research for the Harvard Department of PM&R. Spaulding is one of two departments in the country to have all three Model Systems simultaneously, and has been consistently ranked in the top 10 ‘Best Hospitals’ by U.S. News.

The Ameplite Coalition

Manassas, Virginia

www.ameplite-coalition.org

Booth 113

Our mission is to reach out and empower people affected by limb loss to achieve their full potential through education, support and advocacy, and to promote limb loss prevention. We operate the National Limb Loss Resource Center to provide resources, peer support, and advocacy for the limb loss community.

Sensory Neuroprosthesis, clinically proven to improve balance and gait, and reduce fall risk in people with sensory peripheral neuropathy.

Sensory Neuroprosthesis, clinically proven to improve balance and gait, and reduce fall risk in people with sensory peripheral neuropathy.

Sensory Neuroprosthesis, clinically proven to improve balance and gait, and reduce fall risk in people with sensory peripheral neuropathy.

Sensory Neuroprosthesis, clinically proven to improve balance and gait, and reduce fall risk in people with sensory peripheral neuropathy.

Sensory Neuroprosthesis, clinically proven to improve balance and gait, and reduce fall risk in people with sensory peripheral neuropathy.

Sensory Neuroprosthesis, clinically proven to improve balance and gait, and reduce fall risk in people with sensory peripheral neuropathy.

Sensory Neuroprosthesis, clinically proven to improve balance and gait, and reduce fall risk in people with sensory peripheral neuropathy.

Sensory Neuroprosthesis, clinically proven to improve balance and gait, and reduce fall risk in people with sensory peripheral neuropathy.
The Home of Evidence-Based Physiatry

What’s New with AJPM&R?

EVIDENCE-BASED PHYSIATRY: COCHRANE CORNER
- Exclusive content developed by Cochrane Rehabilitation for AJPM&R
- Support your practice! Read the Evidence-Based Physiatry section in AJPM&R

Start Reading at ajpmr.com

Your audience is waiting.

Call for Proposals Now Open!

Share your big ideas with peers, leaders and rising stars at Physiatry ’21, the AAP’s 2021 Annual Meeting in Anaheim, California, February 9-13, 2020.

Our large and diverse audience will be eager to learn the latest in research, education, patient care, technology, administration, career development and more.

Present a lively, action-oriented session individually or as part of a team to build a strong reputation for your expertise and institution.

SUBMIT BY MARCH 23, 2020 AT PHYSIATRY.ORG/PROPOSALS.

See you at the podium...
Thank You to the AAP’s Academic Partners!

Interested in joining these renowned institutions? Ask an AAP staff member or visit www.physiatry.org/AcademicPartners to learn more about the growing benefits of department membership.
Physiatry Physician Career Opportunities

Memorial Healthcare System, located in South Florida is expanding and looking for physicians to fill the following positions:

- Physiatry - Brain Injury/Neuro Rehab
- Physiatry - Cancer Rehabilitation Specialist
- Physiatry - Musculoskeletal Medicine
- Physiatry - General Rehab
- Physiatry - General Rehab (Staff Relief)
- Physiatry - Pain Medicine

These positions will be employed by the multi-specialty Memorial Physician Group. The full-time positions offer competitive benefits and compensation packages that are commensurate with training and experience. Professional malpractice and medical liability are covered under sovereign immunity.

About Memorial Healthcare System

Memorial Healthcare System is the third-largest public healthcare system in the United States. A national leader in quality care and patient satisfaction, Memorial has ranked 11 times since 2008 on nationally recognized lists of great places to work – in Modern Healthcare magazine, Florida Trend magazine and Becker’s Hospital Review, just to name a few.

Memorial’s work environment has been rated by employees and physicians alike as an open-door, inclusive culture that is committed to safety, transparency and, above all, outstanding service to patients and families.

About South Florida

South Florida offers a dynamic urban/suburban lifestyle with an abundance of cultural and recreational amenities, miles of beautiful beaches, top-rated golf courses, zoos and wildlife refuges, a vibrant arts community, museums and world-class dining. South Florida’s high quality of life – including year-round summer weather, exciting multiculturalism and no state income tax – attracts new residents from all over the country and around the world.

To submit your CV for consideration, please visit memorialphysician.com. Additional information about Memorial Healthcare System can be found at mhs.net.
MedStar National Rehabilitation Hospital has been at the forefront of Rehabilitation Medicine for the past 30 years. Our mission of Adding Life to Years has not only propelled the growth of our rehabilitation network, it has also allowed us to take on some of the nation’s most complex cases. Driven by our use of the latest technology, our research partnership with Georgetown University School of Medicine, our academically active physicians, and national recognized training programs, MedStar National Rehabilitation Hospital continues to strive at providing industry leading rehabilitation care.

Our key service lines include: Stroke, Traumatic Brain Injury, Spinal Cord Injury, Amputation, Cancer Rehabilitation, Sports Medicine

For more visit: MedStarNRH.org
Northwell Health is dedicated to training current and future leaders in physical medicine and rehabilitation

That’s why our Department of Physical Medicine and Rehabilitation is proud to be the executive sponsor for the President’s Reception at ISPRM 2020—the joint meeting of the Association of Academic Physiatrists (AAP) and International Society of Physical and Rehabilitation Medicine (ISPRM).

To learn more about our professional educational opportunities, visit our booth here at the conference or visit Northwell.edu/Rehab

Adam B. Stein, MD  
President, Association of Academic Physiatrists;  
Chair, Physical Medicine and Rehabilitation, North Shore University Hospital, Long Island Jewish Medical Center;  
Chair and Professor, Physical Medicine and Rehabilitation, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Susan Maltser, DO  
Vice Chair, Department of Physical Medicine and Rehabilitation;  
Assistant Professor, Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Nina DePaola, PT, MHA  
Vice President, Rehabilitation Service Line, Northwell Health
JOIN MAYO CLINIC AT AAP

Mayo Clinic provides programs to develop and increase the knowledge, expertise and performance required to advance Physical Medicine and Rehabilitation.

VISIT US AT TABLE #418
FOR MORE INFORMATION VISIT MAYOCLINIC.ORG