



2024 ANNUAL  
**SCIENTIFIC  
MEETING** 



*San Juan • Puerto Rico*

MAY 21 – 23 • PRECOURSE MAY 20



# Restorative Healing.

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# SCIENTIFIC MEETING

## THANK YOU 2024 PARTNERS AND SUPPORTERS!

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### SUPPORTERS AND EXHIBITORS



# PRECOURSE 1

**MONDAY**

**MAY 20, 2024 • Americas – DME State of SCI**

[Click Here for Abstract](#)

**Session Time** (Atlantic ST)

**Location: San Cristobal D**

**8:00 AM - 8:05 AM**

**Intro: Isaac Henandez**

**8:05 AM - 9:05 AM**

**ADLs • Moderator: Ronald Reeves, MD**

Where Do I Begin? Selecting and Prioritizing AT and DME Throughout the Rehabilitation Continuum

Equipment for ADLs for People with Cervical SCI: Challenges, Knowledge and Creativity from a User Clinician Perspective

Occupational Therapy Interventions for Autonomy: Our Argentinian Experience in the Use of DME

Q&A

**Presenters**

Keara McNair, MS, OTR/L,  
BCPR, ATP

Marcelo Ullua, PT

Mariana Bonetto, OT

**9:10 AM - 10:10 AM**

**WCs and Cushions • Moderator: Ronald Reeves, MD**

Seating Success: Tailoring Wheelchair and Cushion Solutions for Spinal Cord Injury Patients

Wheelchairs and Cushions: A Mexican Perspective

Seating and Mobility in Cervical SCI: Frequent Problems and Creative Ideas to Solve them in a Developing Country

Q&A

**Presenters**

Erika Gosai, MD

Isaac Perez, PhD

Josefina Martinez Paz, PT

**10:10 AM - 10:25 AM**

**Break** (15 minutes)

**10:25 AM - 11:25 AM**

**Transfers • Moderator: Steffen Franz, MD**

Seamless Shifts: Navigating Durable Medical Equipment for Smooth Transfers in SCI

Selecting and Recommending Transfer Type and Equipment Based on Prognostic Indicators

Transfer Devices: A Mexican Perspective

Q&A

**Presenters**

Niña Tamayo DO, MS, MPH

Keara McNair, MS, OTR/L,  
BCPR, ATP

Marlene Rodriguez  
Barragan, MD, MSc

**11:30 AM - 12:30 PM**

**UE/LE Orthotics • Moderator: Steffen Franz, MD**

Incorporating Lower Extremity Orthotics into SCI Care

Orthotics to Improve Upper and Lower Extremity Function After Spinal Cord Injury

Limb Orthotics, Mexican Style

Q&A

**Presenters**

Lisa Ruppert, MD

Candy Tefertiller, PT, DPT,  
PhD, NCS

Isaac Perez PhD  
Jimena Quinzaños, MD, PhD

**12:30 PM - 1:30 PM**

**Lunch** (60 minutes)

**1:30 PM - 2:15 PM**

**A Case Presentation and Discussion: A Multiperspective Look at a Transdisciplinary Approach on the Individual with SCI in Latin America**

**Moderators: Isaac Hernandez Jimenez, MD; Camilo Castillo, MD**

Marcelo Ullua, PT • Josefina Martinez, Paz, PT • Isaac Perez, PhD • Jimena Quinzaños, MD, PhD  
• Marlene Rodriguez, MD, MSc • Mariana Bonetto, OT

**2:15 PM - 3:00 PM**

**Training the Trainers Workshop: Cardiovascular, Wound and Sexuality Challenges in the Individual with SCI**

**Moderators: Niña Tamayo DO, MS, MPH; Melina Longoni, MD; Isaac Hernandez Jimenez, MD**

Niña Tamayo DO, MS, MPH • Melina Longoni, MD • Isaac Hernandez Jimenez, MD

**3:00 PM**

**Conclusion**

# PRECOURSE 2



MONDAY

MAY 20, 2024 • From Molecules to Movement – Scope, Utility, and Application of Biomarkers for SCI Clinical Trials and the Development of SCI Precision Medicine

[Click Here for Abstract](#)

Session Time (Atlantic ST)	Location: San Crisotbal G	
7:30 AM - 8:00 AM	<b>Poster Set-up and Registration</b>	
8:00 AM - 8:10 AM	<b>Course Introduction and Orientation</b>	<b>SCOPE Co-Chairs</b> Linda Jones, PT, PhD Jane Hsieh, MSc
8:10 AM - 10:05 AM	<p><b>Defining and Explaining Biomarkers – What is a Biomarker?</b>  <b>Moderator: Bethany Kondiles, PhD</b></p> <p>What are Biomarkers Good For and Why Should They Matter to Researchers and Clinicians?</p> <p>What are Biomarkers Good For and Why Should They Matter to Researchers and Clinicians?</p> <p>Advanced Considerations</p> <p>Industry Perspective</p> <p>Panel Discussion and Audience Interactions</p>	<p><b>Presenters</b></p> <p>Chris Leptak, MD, PhD</p> <p>Brian Kwon, MD, PhD</p> <p>Nikolaos Kyritsis, PhD</p> <p>Matt Szapacs, PhD</p>
10:05 AM - 10:30 AM	Coffee Break (25 minutes)	
10:30 AM - 12:40 PM	<p><b>Exploring Biomarkers in SCI at Different Levels of Resolution</b>  <b>Moderator: Paulina Scheuren, PhD</b></p> <p>Molecules</p> <p>Cells</p> <p>Neural Circuits/Systems</p> <p>Neurological/Functional/Behavioral</p> <p>Non-neurological/Functional/Behavioral</p> <p>Panel Discussion and Audience Interactions</p>	<p><b>Presenters</b></p> <p>Diana Chow, PhD</p> <p>Ona Bloom, PhD</p> <p>Patrick Freund, MD, PhD</p> <p>Monica Perez, PT, PhD</p> <p>Chris West, PhD</p>
12:40 PM - 2:00 PM	Lunch and Posters (80 minutes)	
2:00 PM - 3:10 PM	<p><b>Application of Biomarkers for SCI Clinical Trials and Precision Medicine</b>  <b>Moderator: Andrew Park, MD</b></p> <p>Introduction to Part 3: Biomarkers in Research vs Clinical Practice</p> <p>Biomarkers in Research – Success Stories Thus Far</p> <p>Flipping it Around – What the Clinician Wants to Know for Tomorrow’s Clinic</p> <p>Panel Discussion and Audience Interactions</p>	<p><b>Presenters</b></p> <p>Keith Tansey, MD, PhD</p> <p>James Guest, MD, PHD</p> <p>Edelle Field-Fote, PT, PhD</p>
3:10 PM - 3:40 PM	Coffee Break (30 minutes)	
3:40 PM - 4:40 PM	<b>Roundtable Discussion Groups – Round I &amp; II</b>	
4:40 PM - 5:20 PM	<p><b>Speakers Panel (All) and Audience Development of Future/Next Steps</b>  <b>Moderator: Naomi Kleitman, PhD</b></p>	
5:20 PM	Conclusion of Pre-course	



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**PLEASE JOIN CRAIG  
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CONGRATULATING  
SUSIE CHARLIFUE,  
PH.D., FASIA, FISCOS,  
FACRM, AS INCOMING  
PRESIDENT OF ASIA.**

Dr. Charlifue's career in spinal cord injury research spans nearly 50 years as a research scientist at Craig Hospital; co-director of the Rocky Mountain Regional Spinal Injury System; and associate clinical professor in the Department of Physical Medicine and Rehabilitation at University of Colorado, Denver. Her dedicated work has advanced SCI research and impacted countless individuals with SCI and their caregivers, and we are honored to celebrate this accomplishment with her.



Craig Hospital is a nationally recognized rehabilitation hospital in Colorado that specializes in neurorehabilitation and research for individuals with spinal cord injury and brain injury.

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# Thank You



# Coloplast

Proud Sponsor of UroSTeP: Urology



UroSTeP, ASIA's newest e-Learning Program, is for Physicians, Medical Students, Residents, Nurses, and Nurse Practitioners who participate in caring for Spinal Cord Injury Patients experiencing Neurogenic Dysfunction.



## UroSTeP: Urology

## UROLOGY in the ASIA Learning Center

**Module 1** Anatomy & Physiology  
Neurogenic Dysfunction

**Module 2** Testing Imaging Long  
Term Follow-up

**Module 3** Mechanical Methods  
of Bladder Management

**Module 4** Pharmacological Methods  
of Bladder Management

**Module 5** Surgical Treatments for  
Bladder Management

**Module 6** Urinary Tract Infections  
in Persons with SCI

**Module 7** Urological Complications  
Following SCI

**Module 8** Neurogenic Bladder in  
the Pediatric Population

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# SCIENTIFIC MEETING

**MONDAY**

**MAY 20, 2024** *All program times are in Atlantic Standard Time (AST)*

**PRECOURSES**

**4:00 PM - 5:00 PM**

**EARLY CAREER MEETING** – San Cristóbal BCD

**5:00 PM - 7:00 PM**

**WELCOME RECEPTION** – San Cristóbal Foyer

**TUESDAY**

**MAY 21, 2024** *All program times are in Atlantic Standard Time (AST)*

**San Gerónimo Ballroom**

**7:00 AM - 8:00 AM**

**Breakfast with Partners and Exhibitors** – San Cristóbal Foyer

**8:00 AM - 8:20 AM**

**WELCOME / OPENING REMARKS**

**Suzanne L. Groah, MD, MSPH**  
(ASIA President 2022 - 2024)

**Susie Charlifue, PhD**  
(ASIA President 2024 - 2025)

**8:20 AM - 8:30 AM**

**FELLOW OF ASIA (FASIA) AWARD**

- Amy Bohn, OTR/L
- Jennifer Coker, PhD, MPH
- Suzanne L. Groah, MD, MSPH
- Linda Jones, PT, PhD
- Julio Furlan MD, LLB, MBA, MSc, PhD, FRCPC
- Steven Kirshblum, MD
- David Magnuson, PhD
- Shari McDowell, PT, DPT
- Devinder Poonian, CEO

**8:30 AM - 9:00 AM**

**LIFETIME ACHIEVEMENT AWARD**

**Prof. Armin Curt**  
Chief and Director of the Spinal Cord Injury  
Centre Balgrist University Hospital

**9:00 AM - 9:45 AM**

**SELL LECTURE**  
**Inclusive Trial Design: The Value of Real-World Data**

**Prof. Armin Curt**  
Chief and Director of the Spinal Cord Injury  
Centre Balgrist University Hospital  
● [Click Here for Abstract](#)



*continued*



## TUESDAY

**MAY 21, 2024** *All program times are in Atlantic Standard Time (AST)*

**San Gerónimo Ballroom**

**San Cristóbal D**

**San Cristóbal G**

**Salón Del Mar**

(Beach Wing  
2nd floor)

**9:45 AM - 9:55 AM**      **Stretch Break, Transfer to Next Session**

**9:55 AM - 10:55 AM**      **Partner / Exhibitor Recognition** – San Geronimo Ballroom  
 ● [Click Here for Partner Listing](#)

**10:55 AM - 11:05 AM**      **Stretch Break / Transfer to Next Session**

<p><b>11:05 AM - 12:05 PM</b></p> <p><b>COURSE 1</b> <b>TRIP</b>                  The Rapidly Evolving Role of Ultrasound in Acute Spinal Cord Injury Care                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>COURSE 2</b> <b>TRIP</b>                  Translational Science and Research in Urinary Tract Infection and Lower Urinary Tract Symptoms                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>GENERAL SESSION 1</b>                  Advances in Upper Extremity Functioning: Hands down, Hand it Over and Hold On                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>Do I Do the Exam Right?</b>                  Pitfalls and Common Mistakes Performing the ISNCSCI/E-ISNCSCI Exam                  ● <a href="#">Click Here for Abstract</a></p>
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**12:05 PM - 1:15 PM**      **Lunch Break** (70 Minutes)

<p><b>1:15 PM - 2:15 PM</b></p> <p><b>COURSE 3</b> <b>TRIP</b>                  Are we Getting “TRIPped Up” by the Specifics of Task-Specific Training                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>GENERAL SESSION 2</b>                  Metrics Matter!                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>COURSE 4</b>                  Use of Targeted Neuromodulation Tools for Enhancing Upper Limb Motor Function Recovery and Rehabilitation                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>TSCIR Journal and Guidelines for Reviewers</b>                  ● <a href="#">Click Here for Abstract</a></p>
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**2:15 PM - 3:15 PM**      **Poster Session 1** – San Cristóbal A and San Gerónimo C      ● [Click Here for Abstracts](#)

**2:15 PM - 3:15 PM**      **Break with Partners & Exhibitors** – San Cristobal Foyer

<p><b>3:15 PM - 4:35 PM</b></p> <p><b>COURSE 5</b>                  Towards Precision Medicine in Spinal Cord Injury: How Should SCI Clinicians and Researchers Design Questions to Best Capitalize on Large SCI Databases in the Age of AI and Big Data?                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>GENERAL SESSION 3</b>                  Glad You Asked: Emerging Understandings in Secondary Conditions                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>COURSE 6</b> <b>TRIP</b>                  Neuromodulation and Neuroplasticity; Not All Plasticity is Good or Bad. Reflexes, Neuromodulation and Peripheral Plasticity after Spinal Cord Injury                  ● <a href="#">Click Here for Abstract</a></p>	<p><b>International Standards to Document Autonomic Function following SCI (ISAFSCI):</b>                  Second Edition – An Update on the Changes                  ● <a href="#">Click Here for Abstract</a></p>
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# SCIENTIFIC MEETING

**WEDNESDAY MAY 22, 2024** *All program times are in Atlantic Standard Time (AST)*

7:00 AM - 8:00 AM

**Membership Breakfast** – San Cristóbal D

7:00 AM - 8:00 AM

**Breakfast with Partners & Exhibitors** (Non-Members) – San Cristóbal Foyer

**San Gerónimo Ballroom**

8:00 AM - 9:30 AM

**AWARD-ELIGIBLE ORAL PRESENTATIONS** (TOP 6)

Denosumab Administration Preserves Trabecular Bone Microarchitecture at the Distal Tibia After Acute Spinal Cord Injury

Early Electrodiagnostic Testing after Cervical Spinal Cord Injury has Prognostic and Treatment Value

Graph Representations of Neurological Test Results as A Novel Approach for Recovery Prediction After Spinal Cord Injury

Transitions in Care After SCI: Impacts of Hidden Work on Support Persons

Blood Pressure Responses to Bladder and Bowel Distension and Impact of Targeted Neuromodulation with Spinal Cord Epidural Stimulation.

Investigating the Impact of Hemodynamic Management and Thromboembolic Prophylaxis on Intraparenchymal Hemorrhage Following Traumatic SCI in a Porcine Model

● [Click Here for Abstracts](#)

9:30 AM - 10:30 AM

**KEYNOTE TALK**

**The State of Spinal Cord Injury Care in Puerto Rico**

**Manuel Fernando Mas Rodriguez, MD and Eduardo Nadal Ortiz, MD**

● [Click Here for Abstract](#)

10:30 AM - 10:40 AM

**Stretch Break / Transfer to Next Session**

**San Gerónimo Ballroom**

**San Cristóbal D**

**San Cristóbal G**

**Salón Del Mar** (Beach Wing 2nd floor)

10:40 AM - 11:40 AM

**COURSE 7**

A Novel SCI Adaptive Trial Platform from Pragmatic to Randomized Controlled Clinical Trials: Accelerating Evidence for Disease Modifying Interventions (Sponsored by Scope)

● [Click Here for Abstract](#)

**COURSE 8 TRIP**

Brain-Computer Interface Neuromodulation for SCI: Engineering Developments to Clinical Applications

● [Click Here for Abstract](#)

**GENERAL SESSION 4**

Basic Science for Curious Clinical and Collaborative Researchers

● [Click Here for Abstract](#)

**Do I Classify this Case Correctly?** Clarifications on Classification of Challenging ISNCSCI Cases

● [Click Here for Abstract](#)

*continued*

## WEDNESDAY MAY 22, 2024 *All program times are in Atlantic Standard Time (AST)*

**San Gerónimo Ballroom**

**San Cristóbal D**

**San Cristóbal G**

**Salón Del Mar**

(Beach Wing  
2nd floor)

**11:40 AM - 1:40 PM**

**Midday Break**

**1:40 PM - 3:00 PM**

**COURSE 9 TRIP**

Epidural Stimulation or Oxygen Fluctuation – That is the Question!

● [Click Here for Abstract](#)

**COURSE 10 TRIP**

Neuroimaging for Spinal Cord Injury: Refining the Diagnosis

● [Click Here for Abstract](#)

**GENERAL SESSION 5**

Reality Check: Advancing Our Understandings of the Lived Experience

● [Click Here for Abstract](#)

**3:00 PM - 3:10 PM**

**Stretch Break / Transfer to Next Session**

**3:10 PM - 4:10 PM**

**Posters Session 2 – San Cristóbal A and San Gerónimo C**

● [Click Here for Abstracts](#)

**3:10 PM - 4:10 PM**

**Break with Partners & Exhibitors – San Cristobal Foyer**

**4:10 PM - 5:10 PM**

**GENERAL SESSION 6**

Cardiovascular Health: Emerging Understandings and Evolving Therapies

● [Click Here for Abstract](#)

**COURSE 11**

Empowering Healthcare Access for Women with Spinal Cord Injury

● [Click Here for Abstract](#)

**COURSE 12 TRIP**

It's a Wrap: Myelin Plasticity in Response to SCI and Driven by External Interventions

● [Click Here for Abstract](#)

**5:30 PM - 7:00 PM**

### PRESIDENTS RECEPTION

Hosted by Susie Charlifue, PhD

**Vistabella Garden**

**5:30 PM - 7:00 PM**





# SCIENTIFIC MEETING

**THURSDAY** MAY 23, 2024 *All program times are in Atlantic Standard Time (AST)*

San Gerónimo Ballroom

San Cristóbal D

San Cristóbal G

Salón Del Mar (Beach Wing 2nd floor)

## MORNING OFF

10:00 AM - 11:00 AM

**GENERAL SESSION 7**

Acute to Chronic Acute Phase Management: Brains, Bones, Breathing, Brachial, and Bipedal Opportunities

● [Click Here for Abstract](#)

**COURSE 13** **TRIP**

Breathing after Spinal Cord Injury: Emerging Therapeutics Harnessing the Potential of Respiratory Plasticity

● [Click Here for Abstract](#)

**COURSE 14**

Breaking Boundaries: Collaborative Approaches to Enhance SCI Care Across Latin America and the Caribbean

● [Click Here for Abstract](#)

**Do I Do the Exam Right?**

Pitfalls and Common Mistakes Performing the ISNCSCI/E-ISNCSCI Exam

● [Click Here for Abstract](#)

11:00 AM - 11:10 AM

**Stretch Break / Transfer to Next Session**

11:10 AM - 12:10 PM

**AWARDS SESSION**

- Neilsen Foundation Allied Health Professional Research Award of ASIA
- Anthony F. DiMarco MD Award
- Apple Award
- Vogel Award
- Mulcahey Award
- TRoHNS Award
- Top 3 Oral Talk Awards
- Top 3 Poster Awards
- Early Career Awards

12:10 PM - 12:20 PM

**Stretch Break / Transfer to Next Session**

12:20 PM - 1:20 PM

**COURSE 15** **TRIP**

Changes in the Gut Morphology, Microbiota, and Metabolites: Roles in Health and Recovery after SCI

● [Click Here for Abstract](#)

**COURSE 16**

Neuromodulation – Community Integration and Continuum of Care

● [Click Here for Abstract](#)

**GENERAL SESSION 8**

Neurophysiology & Imaging: The Landscape Continues to Evolve

● [Click Here for Abstract](#)

1:20 PM - 2:20 PM

**Lunch on Own** (60 Minutes)

2:20 PM - 3:20 PM

**COURSE 17**

The Role of Exercise and Diet in Combating Cardiometabolic and Cardiovascular Risk after Spinal Cord Injury

● [Click Here for Abstract](#)

**COURSE 18**

Best Practice Panel: Clinical Guidelines to Assist with Evaluation and Recommendations for DME Related to Pregnancy, Lactation and Parenting

● [Click Here for Abstract](#)

**COURSE 19** **TRIP**

Translational Insights into Pain after Spinal Cord Injury

● [Click Here for Abstract](#)

**Do I Classify this Case Correctly?** Clarifications on Classification of Challenging ISNCSCI Cases

● [Click Here for Abstract](#)

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## THURSDAY

**MAY 23, 2024** *All program times are in Atlantic Standard Time (AST)*

**San Gerónimo Ballroom**

**San Cristóbal D**

**San Cristóbal G**

**Salón Del Mar** (Beach Wing 2nd floor)

**3:20 PM - 3:30 PM**

**Stretch Break / Transfer to Next Session**

**3:30 PM - 4:50 PM**

**COURSE 20**  
Panel Discussion of Venous Thromboembolism in Spinal Cord Injury  
[● Click Here for Abstract](#)

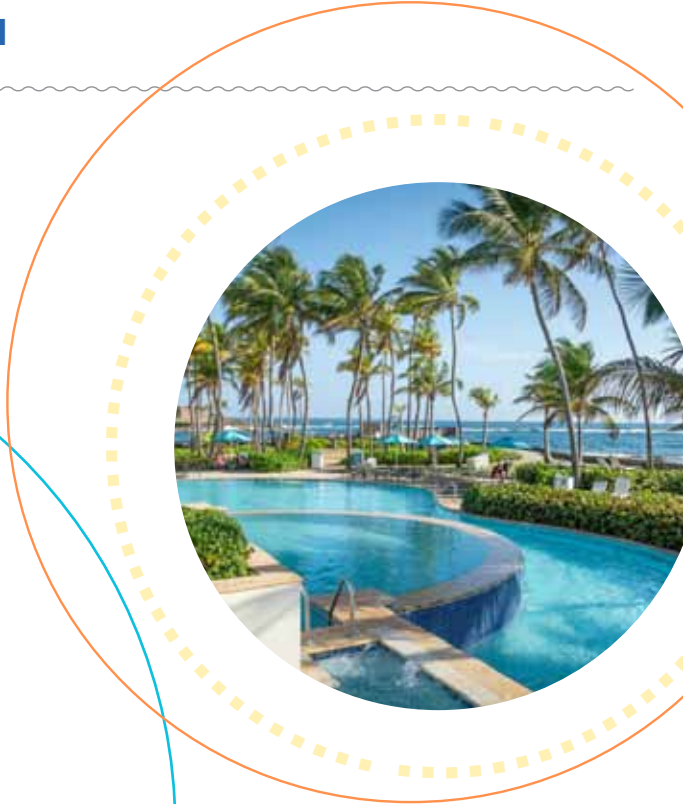
**COURSE 21**  
Partnering with the SCI Community to Address Challenges in SCI Translation  
[● Click Here for Abstract](#)

**GENERAL SESSION 9**  
Time for a Stimulating Discussion: Advances in the Application of Neuromodulation  
[● Click Here for Abstract](#)

**International Standards to Document Autonomic Function Following SCI (ISAFSCI):**  
Second Edition – An Update on the Changes  
[● Click Here for Abstract](#)

**4:50 PM**

## CONCLUSION



# SCIENTIFIC MEETING

## COURSES

**TUESDAY MAY 21, 2024**

COURSE	MODERATOR	PRESENTERS
<b>COURSE 1</b> <b>TRIP</b> The Rapidly Evolving Role of Ultrasound in Acute Spinal Cord Injury Care	James Guest MD, PhD, FAANS	Zin Z Khaing, PhD Brian Kwon MD, PhD, FRCS Christoph Hofstetter MD, PhD, FAANS
<b>COURSE 2</b> <b>TRIP</b> Translational Science and Research In Urinary Tract Infection and Lower Urinary Tract Symptoms	Suzanne L. Groah, MD, MSPH	Alan Wolfe, PhD Catherine Forster, MD, MSc Rochelle Tractenberg, PhD
<b>COURSE 3</b> <b>TRIP</b> Are we Getting "TRIPped Up" by the Specifics of Task-Specific Training	Nicholas Evans, PhD	Edelle Field-Fote, PhD, PT Karim Fouad, PhD Nicholas Evans, PhD
<b>COURSE 4</b> Use of Targeted Neuromodulation Tools for Enhancing Upper Limb Motor Function Recovery and Rehabilitation	Aiko Thompson, PhD	Aiko Thompson, PhD Sue Ann Sisto, PT, MA, PhD, FACRM Hang Jin Jo, PT, PhD Blair H.S. Dellenbach, MSOT
<b>COURSE 5</b> Towards Precision Medicine in Spinal Cord Injury: How Should SCI Clinicians and Researchers Design Questions to Best Capitalize on Large SCI Databases in the Age of AI And Big Data?	Dennis Bourbeau, PhD	Jose Zariffa, PhD Sarah Brüningk, PhD R. James Cotton, MD, PhD Ruediger Rupp, Prof. Dr.-Ing.
<b>COURSE 6</b> <b>TRIP</b> Neuromodulation and Neuroplasticity; Not All Plasticity is Good or Bad. Reflexes, Neuromodulation and Peripheral Plasticity after Spinal Cord Injury	Linda A. T. Jones, PhD	Bing Chen, MD, PhD, Med Evan Sandler, DPT, PhD Candidate Morgan Sharp-Forston, PhD Alan Phipps, PhD

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# COURSES

**WEDNESDAY MAY 22, 2024**

COURSE	MODERATOR	PRESENTERS
<b>COURSE 7</b> A Novel SCI Adaptive Trial Platform from Pragmatic to Randomized Controlled Clinical Trials: Accelerating Evidence for Disease Modifying Interventions (Sponsored by Scope)	Norbert Weidner, MD	Norbert Weidner, MD James Guest, MD, PhD Jan Schwab, MD, PhD Tim E. Darsaut, MD
<b>COURSE 8 TRIP</b> Brain-Computer Interface Neuromodulation for SCI: Engineering Developments to Clinical Applications	Matija Milosevic, PhD	Milos R Popovic, PhD Abhishek Prasad, PhD Cesar Marquez-Chin, PhD
<b>COURSE 9 TRIP</b> Epidural Stimulation or Oxygen Fluctuation – That Is the Question!	Christopher West, PhD	Gordon Mitchell, PhD Andrei Krassioukov, MD, PhD Erica Dale, PhD Alicia Vose, PhD
<b>COURSE 10 TRIP</b> Neuroimaging for Spinal Cord Injury: Refining the Diagnosis	Laura Krisa, PhD	Patrick Freund, MD, PhD Matthew Budde, PhD Feroze Mohamed, PhD
<b>COURSE 11</b> Empowering Healthcare Access for Women with Spinal Cord Injury	Heather B. Taylor, PhD	Heather B. Taylor, PhD Susan Robinson-Whelen, PhD
<b>COURSE 12 TRIP</b> It’s a Wrap: Myelin Plasticity in Response to SCI and Driven by External Interventions	Timothy D. Fav, PT, DPT, PhD	Dana M. McTigue, PhD Philip J. Horner, PhD Timothy D. Fav, PT, DPT, PhD D. Michele Basso, PT, EdD

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# SCIENTIFIC MEETING

## COURSES

**THURSDAY MAY 23, 2024**

COURSE	MODERATOR	PRESENTERS
<b>COURSE 13</b> <b>TRIP</b> Breathing after Spinal Cord Injury: Emerging Therapeutics Harnessing the Potential of Respiratory Plasticity.	Kajana Satkunendrarajah, PhD	Warren Alilain, PhD Angelo Lepore, PhD Carlos Mantilla, MD, PhD Joshua Medow, MD, MSc, PhD
<b>COURSE 14</b> Breaking Boundaries: Collaborative Approaches to Enhance SCI Care Across Latin America and the Caribbean	Niña Carmela Tamayo, DO MS MPH	Melina Longoni, MD Jimena Quinzaños, MD, PhD Ana Valeria Aguirre Guemez, MD
<b>COURSE 15</b> <b>TRIP</b> Changes in the Gut Morphology, Microbiota, and Metabolites: Roles in Health and Recovery after SCI	Cedric Geoffroy	Ceren Yazar-Fisher, PhD Dr. Warren Alilain, PhD Cedric Geoffroy, PhD Michelle Hook, PhD
<b>COURSE 16</b> Neuromodulation – Community Integration and Continuum of Care	Claudia Angeli, PhD	Susan Harkema, PhD Leslie Morse, DO Carrie Shogren, OTR/L
<b>COURSE 17</b> The Role of Exercise and Diet in Combating Cardiometabolic and Cardiovascular Risk after Spinal Cord Injury	Ashraf Gorgey, PhD, MPT	Mark Nash, PhD Gary Farkas, PhD David Dolbow, PhD Ashraf S. Gorgey, PhD
<b>COURSE 18</b> Best Practice Panel: Clinical Guidelines to Assist with Evaluation and Recommendations for DME Related to Pregnancy, Lactation and Parenting	Allison Kessler, MD	Maryam Berri, MD Stephanie Hendrick, MD Cassandra Renfro, DO Allison Kessler, MD, MSc

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# COURSES

**THURSDAY**    **MAY 23, 2024**

COURSE	MODERATOR	PRESENTERS
<p><b>COURSE 19</b> <b>TRIP</b>                      Translational Insights into Pain after Spinal Cord Injury</p>	<p>Paulina Scheuren, PhD</p>	<p>Eva Widerstrom-Noga, DDS, PhD                      Paulina Scheuren, PhD                      Megan Detloff, PhD                      Jan Rosner, MD</p>
<p><b>COURSE 20</b>                      Panel Discussion of Venous Thromboembolism in Spinal Cord Injury</p>	<p>Christina Draganich, DO</p>	<p>Andrew Park, MD                      Jeffrey Berliner, DO                      Thomas Bryce, MD                      Brittany Snider, MD</p>
<p><b>COURSE 21</b>                      Partnering with the SCI Community to Address Challenges in SCI Translation</p>	<p>Matthew Rodreick, Executive Director, Unite 2 Fight Paralysis</p>	<p>Lana Zholudeva, PhD                      Murray Blackmore, PhD                      Jason Biundo, Research Assistant</p>



# SCIENTIFIC MEETING

## GENERAL SESSIONS AWARD-ELIGIBLE ORAL PRESENTATIONS

**WEDNESDAY MAY 22, 2024 • 8:00 AM - 9:30 AM**

**Moderator: Steven Brose, DO • Co-Moderator: Evan Sandler, PT, DPT**

ORAL PRESENTATIONS	PRESENTERS
Denosumab Administration Preserves Trabecular Bone Microarchitecture at the Distal Tibia After Acute Spinal Cord Injury	Christopher Cimigliaro, PhD
Early Electrodiagnostic Testing after Cervical Spinal Cord Injury has Prognostic and Treatment Value	Lukas Linde, PhD
Graph Representations of Neurological Test Results as A Novel Approach for Recovery Prediction After Spinal Cord Injury	Louis Philipp Lukas, M.Sc.
Transitions in Care After SCI: Impacts of Hidden Work on Support Persons	Anne M. Bryden, PhD, OTR/L
Blood Pressure Responses to Bladder and Bowel Distension and Impact of Targeted Neuromodulation with Spinal Cord Epidural Stimulation	Charles Hubscher, PhD
Investigating the Impact of Hemodynamic Management and Thromboembolic Prophylaxis on Intraparenchymal Hemorrhage Following Traumatic SCI in a Porcine Model	Aysa Allard Brown, BSc

**TUESDAY MAY 21, 2024** *All Program times are in Atlantic Standard Time (AST)*

ORAL PRESENTATIONS	PRESENTERS
<b>GENERAL SESSION 1: Advances in Upper Extremity Functioning: Hands down, Hand it Over and Hold On</b> <b>11:05 am - 12:05 pm • Moderator: Amy Bohn, OTR/L • Co-Moderator: Stephanie Hendrick, MD</b>	
Automated Estimation of Adapted GRASSP Scores During Activities of Daily Living Using Egocentric Video	Jose Zariffa, PhD, P.Eng.
The Emergence from Hand Paralysis after Cervical Spinal Cord Injury During Inpatient Rehabilitation: The Predictive Value of Electromyography and ISNCSCI Exam Measures	Keith Tansey, MD, PhD, FASNR, FASIA
Loss of Self-Care Independence in Cervical Spinal Cord Injury: Exploring the Impact of Motor Weakness, Spasticity, and Residual Corticomotor Physiology (A Multi-Center Study)	Jia Liu, PhD
Applicability of the Pain Training and Research team (E.F.I.D., by Its Acronym in Spanish) Ladder in Shoulder Pain After Spinal Cord Injury (SCI)	Mauro Guzzardo, MD Melina Longoni, MD
ARC-EX Therapy Transcutaneous Spinal Cord Stimulation Facilitates Upper Extremity Functional Recovery in Spinal Cord Injury: Results from the Up-LIFT Pivotal Trial	Edelle Field-Fote, PT, PhD

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# GENERAL SESSIONS

**TUESDAY**    **MAY 21, 2024**    *All Program times are in Atlantic Standard Time (AST)*

ORAL PRESENTATIONS	PRESENTERS
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**GENERAL SESSION 2: Metrics Matter!**  
**1:15 pm - 2:15 pm • Moderator: Rüdiger Rupp, PhD • Co-Moderator: Christian Schuld, Dipl-Inform. Med.**

Imputation Of Not Testable Motor and Sensory Scores in The International Standards for Neurological Classification of Spinal Cord Injury (ISNCSCI) With Regression Models	Christian Schuld, Dipl.-Inform. Med.
Development And Preliminary Evaluation of The Spinal Cord Injury Movement Index	MJ Mulcahey, PhD, OTR/L, FASIA
Revision Of the International Spinal Cord Injury (SCI) Urinary Tract Infection (UTI) Basic Data Set and Creation of Extended Data Set	Rochelle Tractenberg, PhD, MPH
A Clinical Prediction Rule for Independence in Individuals with Spinal Cord Injury	Aldo Rafael, Montes Ugalde, MD
ASIA Impairment Scale Grade E Conversion After Traumatic or Ischemic SCI: Incidence, Conversion Pattern as Well as Neurological and Functional Characteristics	Ruediger Rupp, Prof. Dr.-Ing.

**GENERAL SESSION 3: Glad You Asked: Emerging Understandings in Secondary Conditions**  
**3:15 pm - 4:35 pm • Moderator: Maureen Miner, MD • Co-Moderator: Nicholas Evans, PhD, CEP**

Untreated Moderate-to-Severe Sleep-Related Breathing Disorder Is Associated with More Severe Spasticity in Individuals Living with Spinal Cord Injury: A Cross-Sectional Prospective Study	Julio Furlan MD, LLB, MBA, PhD, MSc, FRCPC, FAAN
Non-Invasive Spinal Cord Stimulation for Erectile Function Following Spinal Cord Injury	Claire Shackelton, PhD
Accelerating UTI Diagnosis and Treatment: Validating the Jiddu® Analyzer for Urine Bacterial Growth In Spinal Cord Injury/ Disease	Ana Valeria Aguirre Guemez, MD
Striving To Reduce Bladder Medications to Improve Quality of Life in People With SCI	Ishaan Hublikar, DO
Estimating Renal Function Using Cystatin C In the Spinal Cord Injury Population	Nick Brown, MD
The Effect of Non-Invasive Spinal Cord Stimulation on Lower Urinary Tract Function and Autonomic Dysreflexia in Motor-Complete Spinal Cord Injury	Lucas Rempel, B.Sc (Hons)
Detailed Patterns of Autonomic Impairment After SCI And Their Relationships to The International Standards Exam	Ryan, Solinsky, MD

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# SCIENTIFIC MEETING

## GENERAL SESSIONS

**WEDNESDAY MAY 22, 2024** *All program times are in Atlantic Standard Time (AST)*

ORAL PRESENTATIONS	PRESENTERS
<b>GENERAL SESSION 4: Basic Science for Curious Clinical and Collaborative Researchers</b> 10:40 am - 11:40 am • Moderator: Cédric Geoffroy, PhD • Co-Moderator: Dr. Bethany Kondiles	
Promoting Regeneration following SCI through Subthreshold Epidural Electrical Stimulation	Ahad Siddiqui, PhD
What is Really Going on During Passive (Motorized) Cycling?	David Magnuson, PhD
Reducing Secondary Damage after Spinal Cord Injury Via Tailored Delivery of Anti-Inflammatory Cytokines	Daniel Hellenbrand, M.S.
A New Mouse Model of Polytrauma with Spinal Cord Injury-Associated Chronic Pain	Chan Gao, MD, PhD
Promoting Functional Neurological Recovery after SCI With a Novel Compound Identified Using Proprietary Drug Screening System	Arthur Sefiani, PhD

<b>GENERAL SESSION 5: Reality Check: Advancing Our Understandings of the Lived Experience</b> 1:40 pm - 3:00 pm • Moderator: Indira Lanig, MD • Co-Moderator: Emily Leonard, PhD	
Integrating Community-Based Participatory Research Approaches into Program Development and Study Design	Margaret Finley, PT, PhD
Readability Assessment of Patient Education Materials on Autonomic Dysreflexia	Will Bataller, MD, MS Lauren E. Powell, MD
Loneliness and Its Relation to Psychological and Physical Health Among People with Spinal Cord Injury	Susan Robinson-Whelen, PhD
From 'Blah, Blah, Blah' To Practice: Implementing the Ideal Care Pathway for Traumatic Spinal Cord Injury in Ontario	Judith Gargaro, MSc
Nationwide Emergency Department Visits for Pediatric Traumatic Spinal Cord Injury in the United States, 2016-2020	James A. G. Crispo, MSc, PhD
A Pilot Pain Management Program with Heart Rate Variability Biofeedback Training Improves Cardiac Coherence, Pain Intensity, And Self-Efficacy in Individuals with Paraplegia and Chronic Neuropathic Pain	Karen D'Huyvetter, ND, RN

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# GENERAL SESSIONS

**WEDNESDAY MAY 22, 2024** *All program times are in Atlantic Standard Time (AST)*

ORAL PRESENTATIONS	PRESENTERS
<b>GENERAL SESSION 6: Cardiovascular Health: Emerging Understandings and Evolving Therapies</b> 4:10 pm - 5:10 pm • Moderator: Ryan Solinsky, MD • Co-Moderator: Andrew Park, MD	
Treatment With Adjuvant Ethyl Nitrite in The Acute Phase Following Traumatic SCI Improves Cardiovascular Function in Rodents 12 Weeks Following SCI	Ryan Hoiland, PhD
Treatment Of Post-SCI Hypotension: A Randomized Controlled Study of Usual Care Versus Anti-Hypotensive Therapy	Jill Wecht, EdD
Association Between Cardiovascular Risk and Incidence of Cardiovascular Disease in Veterans With SCI	Khin Chan, MBBS, MS
Acute Intermittent Hypoxia Improves Cardiovascular Function in Rats with Incomplete Spinal Cord Injury	Liisa Wainman, BSc, MSc, PhD (c)
8 Days of Mild Intermittent Hypoxia Improves Autonomic Dysreflexia and Orthostatic Hypotension in Individuals with Motor Incomplete Spinal Cord Injuries	Gino S. Panza, PhD

**THURSDAY MAY 23, 2024**

ORAL PRESENTATIONS	PRESENTERS
<b>GENERAL SESSION 7: Acute Phase Management: Brains, Bones, Breathing, Brachial, and Bipedal Opportunities</b> 10:00 am - 11:00 am • Moderator: Isa A. McClure PT, MAPT • Co-Moderator: Lisa Ruppert, MD	
Determining The Incidence of Concomitant Traumatic Brain Injury in Patients with Acute Spinal Cord Injury: A Ten-Year Cross-Sectional Study.	Antoine Dionne, MS4
Home-Based ARC-EX Therapy Transcutaneous Spinal Cord Stimulation Safely Maintains and Extends Upper Extremity Functional Recovery Following Spinal Cord Injury: Results from The LIFT Home Trial	Candace Tefertiller, DPT
The Role of Diaphragm Pacing in Pediatric Spinal Cord Injury: Decreasing Invasive Mechanical Ventilation	Raymond Onders, MD, FACS
Association of Calcium and Vitamin D Supplements with Fractures in Persons with a Traumatic SCI	Brian Le, MD
Factors Influencing Standing and Walking Outcomes During Inpatient Rehabilitation in Persons with Traumatic Spinal Cord Injury: A Canadian Perspective	Kristen Walden, PT

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# SCIENTIFIC MEETING

## GENERAL SESSIONS

**THURSDAY** MAY 23, 2024 *All program times are in Atlantic Standard Time (AST)*

### ORAL PRESENTATIONS

### PRESENTERS

**GENERAL SESSION 8: Neurophysiology & Imaging: The Landscape Continues to Evolve**  
**12:20 pm - 1:20 pm • Moderator: Monica Perez, PhD • Co-Moderator: Bing Chen**

Advanced Neurophysiology Reveals Topographical Patterns of Myelon Impairment Related to Dynamic Mechanical Stress in Lesional and Non-Lesional Cervical Myelopathies

Paulina S. Scheuren, PhD

Surface Electromyography for Assessment of Sacral Motor and Reflex Function After Acute Spinal Cord Injury: A Pilot Study

Andréane Richard-Denis, MD-MSc

Corticospinal Tract Sparing and Motor Recovery after Cervical Spinal Cord Injury

Gustavo Balbinot, PhD

Cortical Functional Connectivity in Pediatric Participants with Chronic SCI And the Association with Injury Severity

Laura Krisa, PhD

**ANTHONY F. DIMARCO MD AWARD** Neuromodulation of Cervical Spinal Interneurons: A Novel Preclinical Translation Strategy to Restore Breathing After Chronic Cervical Spinal Cord Injury

Kajana Satkunendrarajah, PhD

**GENERAL SESSION 9: Time for a Stimulating Discussion: Advances in the Application of Neuromodulation**  
**3:30 pm - 4:50 pm • Moderator: Professor James Bilzon • Co-Moderator: Dr Jennifer Maher**

Replacing Bladder Medications with Home Neuromodulation in Spinal Cord Injury

Laura Serrano-Ortiz, MD

Recovery of Autonomic Function with Lumbosacral Spinal Cord Neuromodulation in those Living with Chronic Motor-Complete, Cervical Spinal Cord Injury

Susan Harkema, PhD

Neuromodulation-Enhanced Rehabilitation Through Epidural Stimulation in Patients with Subacute and Chronic Spinal Cord Injury

Rodrigo Vilches-Aranguren, MD  
Beatriz Perez Hernandez

Transcutaneous and Epidural Stimulation: Understanding their Impact on Impaired Autonomic Regulation After SCI

Ryan Solinsky, MD

Assessing Blood Pressure Stability in Transcutaneous Spinal Stimulation: A Clinimetric Approach

Einat Engel-Haber, MD

**2021 CRAIG H. NEILSEN AWARD** Feasibility and Early Outcomes of Operant Conditioning of Motor-Evoked Potentials in Upper Extremity of Individuals with Chronic Cervical Spinal Cord Injury

Blair H.S. Dellenbach, MS, OTR/L

## Thank You to Our 2024 Clinic/Institutional Members



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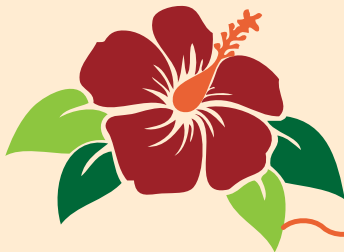
# THANK YOU!

*Thank you members of ASIA Committees  
& Special Interest Groups for your time and dedication!*

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*Winners will be announced during  
the Awards Ceremony on the last  
day of the annual meeting.*



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# SCIENTIFIC MEETING

## POSTERS

### AWARD-ELIGIBLE POSTERS

TUESDAY, MAY 21 & WEDNESDAY, MAY 22, 2024

- 1 Acute Intermittent Hypoxia Improves Airway Protection During Swallowing in Chronic Cervical Spinal Cord Injury  
*Alicia K. Vose, PhD, CCC-SLP*
- 2 Dating Satisfaction and Sexual Behaviors of Adults with Pediatric-Onset Spinal Cord Injury  
*Justine Stewart, PsyD*
- 3 Working Hard or Hardly Working? Comparing Physical Therapist Burden During Different Gait Training Approaches with a Patient with an Acute Spinal Cord Injury  
*Lindsey Wynne, PT, DPT, NCS*
- 4 A Pilot Study Testing Safety and Benefits of Ursolic Acid as a Countermeasure to Myopenia and Insulin Resistance in Chronic SCI  
*Mark S. Nash, PhD, FACS, FASIA*
- 5 Acquired Infections Drive Genetic and Immune Changes Acutely after SCI  
*Angela Filous, PhD*
- 6 Adaptive Sports for All: Investigating the Socioeconomic Challenges to Participation  
*Allyson Gorman, BS*
- 7 Activity-Based Restorative Therapy (ABRT) and the Risk of developing Medical Device-Related Pressure Injuries in pediatric Patients with Spinal Cord Injury: A Case Report  
*Quyen Catania, PT, DPT, NCS, CWS, CLT*
- 8 An Unusual Presentation of Spinal Arachnoid Cyst: The Value of SCI/D Annual Evaluation  
*Ryan Shields, MD, MSc*
- 9 Upper Extremity Motor Scores and Functional Outcomes in Tetraplegic Spinal Cord Injury  
*Emily Y. Chen, M.D. Candidate*
- 10 Adjuvant Ethyl Nitrite on Hemodynamic Management and Spinal Cord Intraparenchymal Hemorrhaging in the Acute Phase Following Traumatic SCI  
*Erin Erskine, MSc*
- 11 Addressing Sexual Health in Individuals with Spinal Cord Injury (SCI) in Latin America: Results from a Survey Study  
*Melina Longoni, MD*
- 12 A Biomarker to Predict Spasticity Reduction Following Transcutaneous Spinal Stimulation  
*Evan B. Sandler, PT, DPT, PhDc*
- 13 A Feasibility Study of High Intensity Interval Training (HIIT) to Reduce Cardiometabolic Disease Risks in Individuals with Acute Spinal Cord Injury  
*James Bilzon, PhD*
- 14 The Need to Establish a Model Systems of Care for the Non Traumatic Spinal Cord Injury Population  
*Melissa Michaluk, DO*





# POSTERS

## TUESDAY, MAY 21, 2024

### ACCESSIBILITY/PUBLIC HEALTH

- 15** Management of Durable Medical Equipment in Latin America: the Healthcare Provider's Experience  
Melina Longoni, MD
- 16** Flooding and SCI: Characterizing Weather Effects on the SCI Community in South Florida  
David McMillan, PhD
- 17** Does Participating In A National Research Registry Impact Patient Outcomes Following Traumatic Spinal Cord Injury? A Population-Based Study From the Rick Hansen Spinal Cord Injury Registry  
Andréane Richard-Denis, MD-MSc
- 18** How Does Extreme Heat Impact SCI Daily Living? Perspectives and Considerations from Southeastern Floridians Living with Spinal Cord Injury  
David McMillan, PhD
- 19** Preliminary Results of Participants Engagement In the Peer-Led Workout on Wheels Internet Intervention Program  
Katherine Froelich Grobe, PhD

### ACUTE CARE

- 20** Is There an Optimal Mobility Pattern For Preventing Pressure Injuries During Acute Care After SCI: A Prospective Cohort Study to objectively monitor Nighttime Mobility using Actigraphy  
Islam Krazdi, MSc

### ADVOCACY

- 21** The Impact of the Educational Interventions by the Americas Committee of ASIA In Latin America  
Melina Longoni, MD

### ASSISTIVE TECHNOLOGY

- 22** Developing A Functional Electrical Stimulation Garment for the Upper Limbs  
Eugene Eunoia Brukman
- 23** Deep Learning Classification of Pediatric Spinal Cord Injury from Diffusion Tensor Imaging Measurements  
Laura Krisa, PhD

- 24** Unlocking Independence: Exploring Assistive Technology Use Among Individuals with Tetraplegia and Its Impact on Psychosocial Well-Being  
Kimberley R. Monden, PhD

### BASIC SCIENCE/ANIMAL MODELS

- 25** Investigating the Influence of Spinal Cord Injury on Sympathetic Ganglionic Control of the Heart  
Alissa Taki, BSc
- 26** Overexpression of Sox11 Restores Embryonic, Pro-Regenerative Gene Transcription In Adult Corticospinal Tract Neurons after Spinal Injury  
Elizabeth Batsel, BS

### CARDIOVASCULAR

- 27** Effect of Two Different Training Programs on Cardiovascular Response and Functional Activity In Individuals with Chronic Spinal Cord Injury  
Marlene Alejandra Rodríguez Barragán, MD, MSc
- 28** Effects of a Feedback-Controlled Heated Vest on Core Temperature in Persons with Spinal Cord Injury during Cool Exposure  
Ian Paez, BA
- 29** Mild Intermittent Hypoxia Acutely Exacerbates Autonomic Dysreflexia, but Orthostatic Hypotension  
Fei Zhao, MPT, PhD
- 30** Cardio-Vagal Responses to the Cold-Face Challenge In People with SCI: Effects of Cholinergic Agonist and Antagonist  
Jacob A. Goldsmith, MS, PhD
- 31** Vascular Dysfunction Following Spinal Cord Injury: A Systematic Review and Meta-Analysis  
Ali Hosseinzadeh, BSc
- 32** The Effect of Transcutaneous Spinal Cord Stimulation on Peripheral Vascular Responses During Urodynamic Assessment  
Ali Hosseinzadeh, BSc

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# SCIENTIFIC MEETING

## POSTERS

TUESDAY, MAY 21, 2024

### CASE STUDY

- 33** When Paresthesias Are More Than Skin Deep: A Case Report  
Michiko Paschall, MD
- 34** Surfer'S Myelopathy: An Unusual Cause of Acute Spinal Cord Ischemia  
Aldo Rafael Montes Ugalde, MD
- 35** The Importance of Spilling Their Guts: An Uncommon Case of Anemia In SCI  
Lauren E. Shuda, MD
- 36** Psychological Intervention Model Aimed to Inpatient Rehabilitation Spinal Cord Injury Individuals  
Sandra R. Hernández-Sandoval, BA Psychology; Psy. M.

### CHRONIC CARE

- 37** Skipping Leg Day isn't always Bad: Complications Found in Heavy Lifters who Experience Paralysis  
Samantha Mendelson, DO
- 38** Complexities of Bowel and Bladder Management In Cancer-Associated Spinal Cord Injury: A Mixed-Methods Study  
Andrea Leyton-Mange, MD

### WITHDRAWN

- 40** Prevalence of Current Pregnancy In Women with Traumatic Spinal Cord Injury: Findings from the National SCIMs Database 2000-2023  
Yuying Chen MD, PhD

### CLINICAL TRIAL UPDATES

- 41** WITHDRAWN
- 42** A Phase 1b/2a Study of NVG-291 In Individuals with Subacute Or Chronic Spinal Cord Injury  
Daniel Mikol, MD, PhD
- 43** Segmental Motor Recovery After Cervical Spinal Cord Injury  
Gustavo Balbinot, PhD

### COMMUNITY RE-INTEGRATION AND PARTICIPATION

- 44** Returning to Work After a Spinal Cord Injury In Latin America  
Melina Longoni, MD
- 45** A Clinical Research Registry: The Power of Connection  
Carolyn Ostrowski, PTA, CEAS
- 46** Working Conditions in Patients with Spinal Cord Injury at the National Rehabilitation Institute, Mexico City  
Aldo Rafael Montes Ugalde, MD
- 47** Sexuality in Patients with Spinal Cord Injury: Satisfaction Reported About the Intervention Received During Rehabilitation Program  
Mariana Bonetto, OT
- 48** Group Tele-Exercise Impact on Physical Activity Determinants and Behavior In Individuals with Spinal Cord Injury  
Laura Baehr, PT, DPT, PhD
- 49** Predicting Complete vs. Incomplete Long-Term Functional Independence Early After Acute Motor-Incomplete AIS D Spinal Cord Injury to Optimize the Care Pathway. A Prospective Cohort Study  
Antoine Dionne, MS4

### COVID 19

- 50** Results of Telepsychology Intervention In People with Spinal Cord Injuries In Argentina During the Pandemic and Beyond  
Melina Longoni, MD
- 51** Autoimmune Cervicothoracic Myelopathy following Covid-19 Infection: A Variable Presentation  
Ton La, Jr., MD JD

### ELECTROPHYSIOLOGY

- 52** Transcutaneous Electrical Spinal Stimulation Attenuates Ankle Clonus in Humans with Chronic Spinal Cord Injury  
Alex Benedetto

### IMAGING

- 53** Measurement of Magnetization Transfer Ratio In Normal Pediatric Cervical Spinal Cord: Clinical Feasibility, Assessment of Normative Data and Age Correlation  
Laura Krisa, LK, PhD
- 54** Metal Reduction Around Cervical Spine Implant Using Diffusion Tensor Imaging at 3T MRI: Preliminary Results  
Slimane Tounekti, PhD

# POSTERS

## TUESDAY, MAY 21, 2024

### LOWER EXTREMITY FUNCTION/GAIT

- 55** Data-Driven Characterisation of Lower-Limb Kinematics During Breaststroke Swimming In Patients with Spinal Cord Injury  
 Melina Giagiozis, MSc

### MEASUREMENT AND OUTCOMES INSTRUMENTS

- 56** Longitudinal Functional Recovery after Spinal Cord Injury Using the Neuromuscular Recovery Scale  
 Doug Griffin, PT
- 57** Novel Superconditioning Transcranial Magnetic Stimulation (TMSsc) As a Sensitive Biomarker In Amyotrophic Lateral Sclerosis (ALS) Diagnosis  
 Ramza Malik, DO
- 58** Use of Motor Score "5\*" In the European Multicenter Study About Spinal Cord Injury (EMSCI)  
 Christian Schuld, MSc
- 59** Not Testable ISNCSCI Motor and Sensory Scores In the European Multicenter Study about Spinal Cord Injury (EMSCI): Occurrence Patterns and Consequences on Classification  
 Christian Schuld, MSc
- 60** Biomarkers for Recovery Following Severe Spinal Cord Injury  
 Monica Perez, PhD
- 61** Differences in Common Prehension Relevant Outcome Measures in Tetraplegia  
 Nilanjana Datta, MD
- 62** Establishment of Reference Scores For Trunk Control Assessment Using Smartphones In Patients with Spinal Cord Injury  
 Erika Abarca Ortega, MD
- 63** Predicting Bladder Function During Acute Hospitalization with a Qualitative Voluntary Anal Contraction Assessment Following Motor Incomplete Spinal Cord Injury  
 Andréane Richard-Denis, MD-MSc
- 64** A Data-Driven Investigation of Historic Control Matching  
 Miklovana Tuci, MSc
- 65** Knowledge, Comfort, Approach and Attitude towards Sexuality Scale in Spinal Cord injured Population: Adaptation and Validation to Spanish Language  
 Luz Miriam Leiva Pemberthy, MD

### METABOLIC/OBESITY

- 66** The Effects of High-intensity Interval Training on Fitness and Metabolic Health in Individuals with Acute Spinal Cord Injury Submission  
 Jennifer Maher, PhD
- 67** Treatment of Neurogenic Obesity in Spinal Cord Injury with Tirzepatide: A Case Report  
 Michael Juszcak, MD

### MOTOR CONTROL

- 68** Quantifying Volitional Leg Movement In the E-Stand Clinical Trial Using Surface Electromyography  
 Emily Haag, B.S.
- 69** Mild Intermittent Hypoxia Improves Hand Function In Individuals with Motor Incomplete Spinal Cord Injury  
 Lexi Soltesz

### NEURAL PLASTICITY

- 70** Peripheral Plasticity of Nociceptive Afferents Following Spinal Cord Injury  
 Morgan Sharp-Forston, B.S.

### NEUROMODULATION

- 71** Transcutaneous Spinal Cord Stimulation Combined with Activity-Based Therapy Leads to Sensorimotor Improvements In Chronic, Thoracic Spinal Cord Injuries  
 Jenny Suggitt, MSc, OTR/L
- 72** Restoring Function after Chronic Spinal Cord Injury from Electrophysiology to Kinematics  
 Tara Nash, CNP
- 73** Autonomic and Motor Recovery with Non-Invasive Lumbosacral Spinal Cord Stimulation Following Cervical Motor-Complete Spinal Cord Injury: A Case Study  
 Ali Hosseinzadeh, BSc
- 74** Modulation of Spinal Cord Excitability and Motor Performance in Individuals with Chronic Cervical SCI Following a Single Spinal Cord Transcutaneous Stimulation Training Session  
 Pawan Sharma, PhD

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# SCIENTIFIC MEETING

## POSTERS

**TUESDAY, MAY 21, 2024**

### NEUROMODULATION

- 75** Transcutaneous Spinal Cord Stimulation to Restore Cardiovascular Function In Chronic SCI  
Lynda Murray, PhD
- 76** Participants and Caregivers' Perspectives of the Spinal Cord Epidural Stimulation Effect on Bowel Function and Management for Individuals with Spinal Cord Injury: A Qualitative Study  
Beatrice Ugiliweneza, PhD, MS
- 77** Paired Brain and Cervical Spinal Stimulation Facilitates Hand Muscle Responses In Humans  
Lynda Murray, PhD

- 78** Identifying Midbrain Locomotor Circuits that Improve Walking In Pigs Following Incomplete SCI  
Brian Noga, PhD
- 79** Enabling Volitional Lower Limb Control with Non-Invasive Spinal Cord Stimulation: Responder vs. Non-Responder  
Raza N. Malik, PhD

### PSYCHOSOCIAL

- 80** Barriers to Health Promotion Among Young Adults with Pediatric-onset Spinal Cord Injury  
Alicia January, PhD

**WEDNESDAY, MAY 22, 2024**

### EXOSKELETONS

- 81** Overground Robotic Exoskeleton Use for Early Mobility After Spinal Cord Injury During Acute Care Hospitalization: A Case Series  
Jaime Gillespie, PT, DPT

### GASTROINTESTINAL

- 82** The Gut Microbiome After SCI: A Preliminary Analysis of the Gut Microbiome to Identify Molecular Mechanisms of GI Dysfunction  
Mark Nash, PhD, FACSM, FASIA

### GENOMICS

- 83** Genetic Variability and DVT After Spinal Cord Injury (SCI): A Negative Pilot Study Highlights Barriers and Opportunities To Exploring Gene Association in SCI Outcomes  
Lauren Hall, MD

### IMAGING

- 84** Characterization of Chronic incomplete Cervical Spinal Cord Injury with Magnetic Resonance Imaging and Assessments of Sensory and Motor Functions: Case Reports  
Allison Lewis, DPT, PhD

### PAIN

- 85** Effectiveness of Hydrotherapy on Neuropathic Pain and Pain Catastrophization in Patients with Spinal Cord Injury: Protocol for a Pilot Trial Study  
Luz Miriam Leiva Pemberthy, MD
- 86** Factors Associated with Neuropathic Pain in Colombian Patients with Spinal Cord Injury of Traumatic Origin: Case-Control Study  
Luz Miriam Leiva Pemberthy, MD
- 87** Perceived Effectiveness and use of Seven Active Pain Management Tools By individuals with Paraplegia Participating in A 9-Week Chronic Neuropathic Pain Management Program  
Lisa Lighthall Haubert, MPT, DPT, KEMG
- 88** Battlefield Acupuncture in Action : Our Centers Experience with Battlefield Acupuncture for SCI Related Pain  
Samantha Mendelson, DO
- 89** The Impact of SCI and SCI-Related Neuropathic Pain on Multisensory Integration  
Roberta Vastano, PhD
- 90** Determinants of Days with Manageable Pain After SCI  
Eva Widerstrom-Noga, DDS, PhD
- 91** Balance Between Spinothalamic and Lemniscal Tract Preservation as a Crucial Aspect in Neuropathic Pain Development after Spinal Cord Injury  
Laura Heutehaus, MSc

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# POSTERS

## WEDNESDAY, MAY 22, 2024

**92** The Synergistic Effect of Acute TBI and SCI on the Development of Chronic Pain: A Populational Cohort Study on 2389 Patients in Québec, Canada  
 Antoine Dionne, MS4

**93** Trial of Early Intervention with Transcutaneous Electrical Nerve Stimulation for the Prevention of Neuropathic Pain After Spinal Cord Injury  
 Elizabeth Felix, PhD

**94** Changes of Pain Cortices in Chronic Adults with SCI: The Underpinnings of the Resting State BOLD fMRI  
 Abdulaziz Alhussein, BA

**95** WITHDRAWN

### PATIENT/CAREGIVER EDUCATION

**96** WITHDRAWN

**97** WITHDRAWN

### PREVENTION

**98** Perceptions of Photovoice as a Virtual Fall Prevention and Management intervention after Spinal Cord Injury  
 Katherine Chan, MSc, RKin

**99** Effects of Lactobacillus Rhamnosusgg Bladder Wash Versus Saline Bladder Wash on Urinary Function and Bladder Symptom Burden in intermittent Catheter Users: Preliminary Results  
 Emily Leonard, PhD

**100** Passive Heat Therapy to Improve Cardiometabolic Health in Persons with A Spinal Cord Injury – A Case Series  
 Hannah Uhlig-Reche, MD, MPH

### PSYCHOSOCIAL

**101** Understanding The Impact of Screening Location on Depressive Symptom Scores Among Acute Traumatic and Non-Traumatic Patients with Spinal Cord Injury  
 Ramya Gopalan, MS, MPH

**102** Bladder and Bowel Dysfunction, Cognitive Appraisals of Disability, and Life Satisfaction in individuals with Pediatric-onset Spinal Cord Injury  
 Olivia Clark, MA

**103** A Qualitative Study on The Impact of Oral Health on Quality of Life: The Lived Experience of People with SCI  
 Jennifer Coker, PhD, MPH

**104** Longitudinal Satisfaction with Life Among individuals with Spinal Cord injury: A Multilevel Multiple indicator Multiple Cause Model  
 Elizabeth Pasipanodya, PhD

**105** Depression in Patients with Spinal Cord Injury  
 Lina María Rodríguez Vélez

### REHABILITATION

**106** Rehab in Rehab: A Prospective Analysis of The Effect of Substance Use Disorders on inpatient Rehabilitation for Traumatic Spinal Cord Injury  
 Shane Stone, MD

**107** Comparative Analysis Between Acute Phase and 30 Years of Evolution in People with Tetraplegia Due to Spinal Cord Injury: Clinical Cases  
 Diego Uberti, Neurorehabilitador

**108** Challenges in Virtual Healthcare for Patients with Disabilities  
 Joann Pan, BA

**109** Safety and Feasibility of Transcutaneous Spinal Cord Stimulation to Stabilize Blood Pressure for Acute inpatients with Spinal Cord Injury  
 Jorge Chavez, BS

**110** Changes in Cough Effectiveness Following 5-Days of Therapeutic Acute intermittent Hypoxia in Chronic SCI  
 Michela Mir, PhD CCC-SLP

**111** Title: Viral Myelopathy: A Rare Subset of Non-Traumatic Spinal Cord Dysfunction  
 Lisa Beck, APRN, CNS, MS

**112** Does Race/Ethnicity influence Epidemiology, Survival and Neurological Outcomes After Acute Traumatic Spinal Cord Injury?  
 Julio Furlan, MD, LLB, MBA, PhD, MSc, FRCPC, FAAN

**113** Presence, Descriptors, and Perceived Locations of SCI Related Painful Sensations During The First-Year Post-Injury  
 Laiba Afzal, MS

*continued*



# SCIENTIFIC MEETING

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- 114** Variability in The Risk of Elbow Flexor Tendon Retraction in Tetraplegia Due to Spinal Cord Injury At C5, C6 and C7 Levels. Clinical Evidence of Neuromuscular Response to FES Stimulation.  
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- 115** Reviving intimacy After Spinal Injury: Unveiling A Novel Approach to Enhance Sexual Participation in A Male Patient with Incomplete Spinal Injury  
Jane Alkhazov, PT, DPT, NCS
- 116** Walking Outcomes Enhanced By Use of A Novel Electrode Array for Transcutaneous Spinal Cord Stimulation and Gait-Based Therapies in Patients with Incomplete Spinal Cord Injury  
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- 119** Mild intermittent Hypoxia Elicits Ventilatory Plasticity without Changes in Resting Blood Pressure  
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- 120** Improving Breathing After Spinal Cord Injury By Electrical Stimulation of Locomotor Circuits  
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- 122** Bladder and Bowel Function in Adult Subjects with Spinal Cord Injury in Argentina  
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- 123** What is the Status of Research Spinal Cord Injury in Latin America?  
Florencia Fernández, PhD
- 124** Healthcare Utilization in Veterans with Cervical Spinal Cord Injury: Defining The Opportunities for Dissemination of Treatment information  
Michael Berger MD, PhD

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- 128** Staged Chronic Wound Therapy with Use of Medical Maggot Therapy and Human Placental Extracellular Matrix injectate: A Case Study  
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Daisy Falla Ramirez, PhD

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Mark Prasarn, MD
- 133** Is Routine Use of External Spinal Orthoses Necessary after Operative Stabilization of Cervical Spine injuries?  
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- 134** Utility of Augmented Reality and Virtual Reality in Spine Surgery  
Hasan Sumdani, MD

# POSTERS

## WEDNESDAY, MAY 22, 2024

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- 136** Targeting intraparenchymal Hemorrhage After SCI  
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- 137** The Concept of Positive Deviance Applied to Spinal Cord Injury Recovery - An Analysis of Medications Received By Patients Exhibiting A Phenomenal Recovery  
Lucie Bourguignon, MSc
- 138** Ethics, Access and Inclusion: Human Subjects Considerations for Spinal Cord Injury  
B. Jenny Kiratli, PhD

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- 139** Isn't It GRANND? Grasp-Release Assessment for A Networked Neuroprosthesis Device – A Clinical Trial Update  
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- 140** Pilot Data to Develop A Multivariate Classification System for Upper Extremity Function and Participation Among People with Tetraplegia  
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Mine Aydan Cemberoglu, MD
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- 144** Within Individual Urinalysis and Urine Culture Variation with Symptoms Among People with Neurogenic Lower Urinary Tract Dysfunction who use Indwelling Catheterization  
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Alberto Isaac Perez Sanpablo, DSc
- 146** Rotator Cuff Tendon Pathology Is Associated with Satisfaction with Life in Pediatric and Adult Manual Wheelchair Users with Spinal Cord Injury and Dysfunctions  
Shubhra Mukherjee, MD, FRCP(C)
- 147** Assessing The Quality of information for Patients on Wheelchair Services Provided By Conversational Agents Based on Artificial intelligence  
Alberto Isaac Perez Sanpablo, DSc



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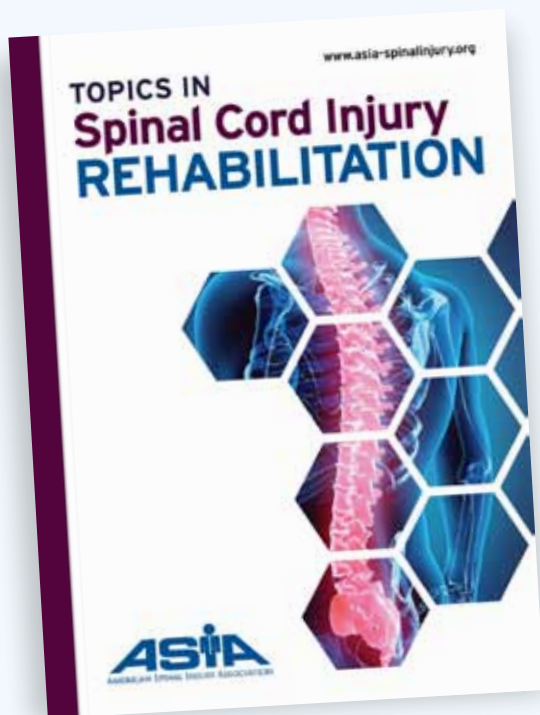
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## MARK S. NASH, PH.D., FACSM, FASIA

Associate Scientific Director for Research, The Miami Project  
Vice-Chair for Research, Department of Physical Medicine & Rehabilitation  
Professor, Departments of Neurological Surgery, Physical Medicine & Medicine and Physical Therapy  
Co-Director, DHHS-NIDILRR South Florida SCI Model System

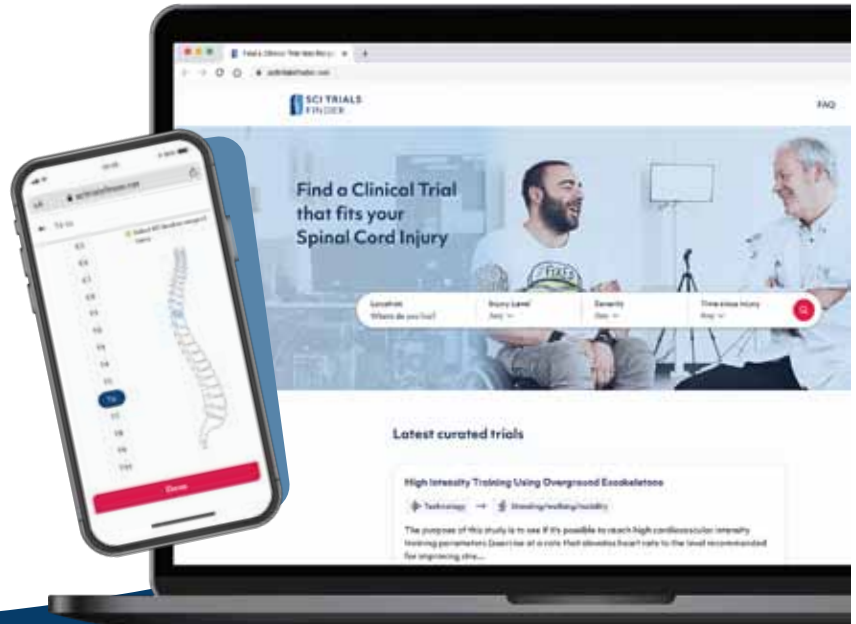
The University of Miami's Department of Physical Medicine and Rehabilitation and The Miami Project to Cure Paralysis proudly congratulate Dr. Mark S. Nash on becoming the American Spinal Injury Association's president-elect. With his dedication, expertise, and leadership, Dr. Nash is poised to continue leading ASIA toward a future of innovation and excellence.





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