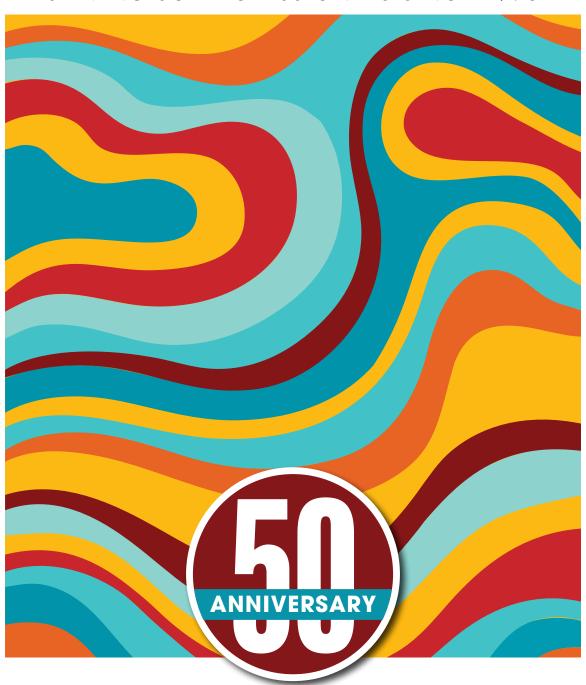
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SCIENTIFIC MEETING

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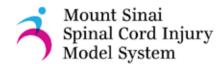
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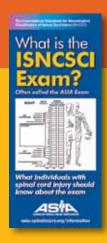




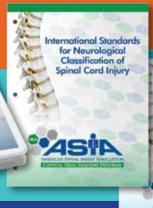




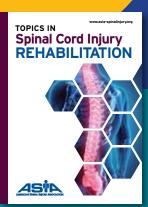
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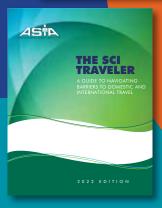




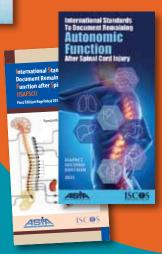








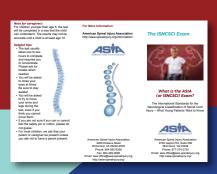
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2023 ANNUAL SCIENTIFIC MEETING



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PRECOURSE PROGRAM CHAIRS

Amy Bohn, OTR/L

Childrens Healthcare of Atlanta Atlanta, Georgia

Suzanne Groah, MD

Director of SCI Research MedStar National Rehabilitation Hospital Washington, District of Columbia

Click Here for Recording

WINDSOR BALLROOM

SUNDAY, APRIL 16TH All Program times are in Eastern Time (ET)

Time	Session Title	Presenters
7:00 AM - 8:00 AM	Breakfast	
8:00 AM - 8:10 AM	Introduction/Opening Remarks	Suzanne Groah, MD
8:10 AM – 8:40 AM	History of Adaptative Sports Participants will gain knowledge of the origins of wheelchair sports as well as understand the evolution of sports based on access, technology, and research.	Robert Murray
8:40 AM - 9:10 AM	Evolution of Classification Across Adaptive Sports An overview of types of classification based on the sport, changes in sport classifications due to research and the expansion of populations participating in sport.	Michelle Lanouette, MS, PT, NCS, ATP
9:10 AM - 9:30 AM	Autonomic Function as a Missing Piece of the Classification of Paralympic Athletes with SCI	Andrei Krassioukov, MD, PhD, FRCPC, FASIA
9:30 AM - 9:50 AM	Maximizing Exercise Capacity to Improve Sports Performance in Athletes with SCI	Christopher West, PhD
9:50 AM - 10:10 AM	Incorporating Rest, Recovery and Nutrition into Sports Training	Jereme Wilroy, PhD
10:10 AM - 10:25 AM	Break	
10:25 AM -10:45 AM	Access to Fitness Access to online adaptive fitness and emerging development of programs	Harsh Thakkar, CPT
10:45 AM -11:05 AM	Technology in Sport Technology available and data that can be collected from wearable technology	Hannah Houde



SUNDAY, APRIL 16TH

Time	Session Title	Presenters	
11:05 AM - 11:20 AM	The Current State of Paralympic Research and Identified Gaps: A Scoping Review	Kerri Morgan PhD, OTR/L, ATP	
11:20 AM - 11:30 AM	Transition to Lunch		
11:30 AM - 12:30 PM	Sponsored lunch		
12:40 AM - 1:20 PM	Who is Appropriate for What Sport and Why? What determines good sport match for individuals with SCI.	Rita Penniman, MS, CTRS, RRT	
1:20 PM - 2:00 PM	Equipment Where do I begin? Prescribing the proper sports chairs. Seating and positioning considerations will be discussed as related to injury and sport. An Overview of funding challenges and resources	Sarah Leonard, PT, DPT, ATP Jim Black	
2:00 PM - 2:15 PM	Break		
2:15 PM - 2:35 PM	Psychology Impacts of Participation in Sports Psychological effects of participation in sport from community to paralympic level, incorporating athletes into peer mentorship programs, and benefits of peer mentorship within the sports communities	Deborah Shapiro, PhD	
2:35 PM - 2:50 PM	Incorporation of Peer Mentorship and Sports	Zac Bradley, MS, CRC, NCC	
2:50 PM - 3:50 PM	Panel of Athletes - Real Life Experiences Athletes will briefly discuss the impact of sports and mentorship life.	Kerri Morgan PhD, OTR/L, ATP Harsh Thakkar, CPT Zac Bradley, MS, CRC, NCC Bill Furbish	
3:50 PM - 4:00 PM	Summary of Day and Explanation of Sport Expo		
4:00 PM - 7:00 PM	Welcome Reception with Sports Expo Venetian Ballroom In this session, participants will have the opportunity to learn about the sport, the diagnosis appropriate for and the resources available for each sport. Participants will have the opportunity to have hands-on experience/competition at each session.		



Congratulations, Dr. Kenneth C. Parsons, Paradigm Medical Director, on receiving the 2023 ASIA Lifetime Achievement Award

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- 3. Neurogenic Bowel
- 4. Skin Care and Wound Prevention
- 5. Autonomic Dysreflexia



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2023 ANNUAL SCIENTIFIC MEETING

2023 Annual Scientific Meeting Chair

Christopher West, PhD

University of British Columbia, Vancouver, BC Canada

2023 Annual Scientific Meeting Vice Chair

Rajiv Saigal, MD, PhD

University of Washington, Seattle, WA

MONDAY, APRIL 17TH All Program times are in Eastern Time (ET)

TIME	WINDSOR BALLROOM	HOPE BALLROOM	TRIPPE BALLROOM
6:30 AM - 8:00 AM	Registration		
7:00 AM - 8:00 AM	Early Career Breakfast Breakfast with Partner & Exhibitors		
8:00 AM - 8:15 AM			
8:15 AM - 8:45 AM	Kenneth C. Pars Paradigm Medical ASIA Past Presiden	Director	Lanig, MD

8:45 AM - 9:00 AM

FELLOW OF ASIA (FASIA) AWARD



Andy Blight, PhD



David R. Gater, MD, PhD, MS



Brian K. Kwon, MD, PhD, FRCSC



Janice Tilley



Eva Widerstrom-Noga, DDS, PhD



Kathy Zebracki, PhD

9:00 AM - 9:45 AM

Sell Lecture: Regenerating the Injured Spinal Cord: From Molecules to Man



Elizabeth Bradbury, PhD King's College London U.K.

Click Here for Abstract

9:45 AM - 10:45 AM	Poster Session 1 (Listings page 28)	Click Here for Abstracts
9:45 AM - 10:45 AM	Break with Partners & Exhibitors	
10:45 AM - 11:30 AM	Exhibitor/Partner Recognition of our Gen	erous Conference Supporters
11:30 AM - 11:40 AM	Stretch Break/Transfer to Next Session	



MONDAY, APRIL 17TH All Program times are in Eastern Time (ET)

TIME	WINDSOR BALLROOM	HOPE BALLROOM	TRIPPE BALLROOM
11:40 AM - 12:40 PM	General Session 1 Ambulation, Copulation and Colonization Topics in SCI Click Here for Abstracts	General Session 2 From Pediatrics & Pain to Prodding and Population Level Statistics Click Here for Abstracts	Course 1 TRIP Closing the Loop: Next-Generation Epidural Stimulation and Neuroethical Lessons from the Past Click Here for Abstract
12:40 AM - 1:40 PM	Lunch - Presentation Spe How the Open Data Common Assist with Data Management Karim Fouad, PhD • ODC C Dr. Abel Torres Espin • ODC	ons for Spinal Cord Injury Ca nt and Sharing Mandates Co-Director	in As
1:40 PM - 1:50 PM	Stretch Break/Transfer to Ne	xt Session	
1:50 PM - 3:10 PM	Course 2 Where to Start? Perspectives and Tools for Crafting a Meaningful Community for Engagement Program in SCI Research Click Here for Abstract	Course 3 Operant Conditioning of Muscle-Evoked Potentials Enhancing Motor Function Recovery After Spinal Cord Injury Click Here for Abstract	Course 4 TRIP Combinatorial Therapies for Functional Restoration Spinal Cord Injury (Presented by SCOPE) Click Here for Abstract
3:10 PM - 3:20 PM	Stretch Break/Transfer to Ne	xt Session	
3:20 PM - 4:40 PM	Course 5 Developing a Strong Base for Athletes of Adaptive Sport: Keys to Keeping an Athlete's Shoulders in the Game Click Here for Abstract	Course 6 The Future of SCI Education: Advances, Priorities, and Challenges in the Next Decade Click Here for Abstract	Course 7 TRIP Emerging Strategies to Treat Spasticity and Understand Its Role in Motor Control and Recovery After Spinal Cord Injury Click Here for Abstract
4:40 PM - 5:30 PM	Membership Meeting	with Refreshments	
			continue

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^{*}Chronic injury shall be defined as either (1) 12 months since initial injury or (2) a preceding six months of no significant change in motor function (<2.72 points in ISNCSCI Upper Extremity Motor Score).



2023 ANNUAL SCIENTIFIC MEETING

TUESDAY, APRIL 18TH All Program times are in Eastern Time (ET)

TIME	WINDSOR BALLROOM	HOPE BALLROOM	TRIPPE BALLROOM
6:30 AM - 6:00 PM	Registration – Windsor F	oyer	
7:00 AM - 7:45 AM	Breakfast with Partner & Exhibitors		
7:45 AM - 8:30 AM	Lectureship	Treating the Injured Spinal (Karim Fouad, PhD Co-Director/Editor of the Open I University of Alberta	
8:30 AM - 9:40 AM	Awards-Eligible Oral Pre	esentations – Moderator St	even W. Brose, DO
	 Motor Scores Prediction fr Standards for Neurologica Untreated Moderate-To-Sa 	al Classification of Spinal Co	ord Injury (ISNCSCI)
	with Increased Number o	f Silent Episodes of Autonom Subacute or Chronic Spinal (nic Dysreflexia During Sleep
	 Loss Of Cortical Inhibition in Chronic Spinal Cord Injury: Clinical Implications for Sensorimotor Impairment, Functional Capability, And Self-Care Independence 		
	 Development of the Pediatric Appraisals of Disability Primary and Secondary Scale (Pedsadapss): Qualitative Methods 		
	 Healthcare Experiences C NVG-291 Phase 1 Results Spinal Cord Injury 	Of LGBTQ+ Persons who Live s and Phase 1b/2a Study De	• • •
	 Click Here for Abstracts 		
9:40 AM - 9:50 AM	Stretch Break/Transfer to Ne	xt Session	
9:50 AM - 10:40 AM	Multidisciplinary Manageme through Interactive Cases: A Rose Khavari, Md (Moderate Argyrios Stampas, MD, MS Michael Kennelly, MD	ligning with the Guidelines	d Neurogenic Bladder NBRG NEUROGENIC BLADGER RESEARCH GROUP Building a Bridge to Bette Neurogenic Bladder Care
10:40 AM - 11:40 AM	Posters Session 2 – Venet	ian Ballroom (Listings page	28) • Click Here for Abstracts
10:40 AM - 11:40 AM	Break with Exhibtors & Partners		
11:40 AM - 12:40 PM	General Session 3 Vessels, Vasoconstriction, and Ventilation	General Session 4 Topics in Acute Phase Clinical Research and	Course 8 TRIP Impaired Respiration and Infection Susceptibility
	 Click Here for Abstracts 	Care Click Here for Abstracts	After SCI Click Here for Abstract



TUESDAY, APRIL 18TH All Program times are in Eastern Time (ET)

TIME	WINDSOR BALLROOM	HOPE BALLROOM	TRIPPE BALLROOM
12:40 PM - 1:40 PM	Individual Lunch Presentations by Spinex and ASIA		SIA
	Spine Noninvasive Spinal N Current Applications	euromodulation: The and the Future Opportunities	ASÍA AMERICAN STRAL BIJUEZ ASOCIATION
1:40 PM - 1:50 PM	Stretch Break/Transfer to Nex	rt Session	
1:50 PM - 3:10 PM	Course 9 Beyond ISNCSCI Considerations for Additional Profiling in SCI Clinical Trials Practices Click Here for Abstract	Course 10 Addressing The Priorities of Individuals with SCI: Spinal Cord Stimulation for Improving Sexual, Lower Urinary Tract, and Bowel Function Following Spinal Cord Injury Click Here for Abstract	Course 11 (RIP) The Good, The Bad, and the Unknown: Is Stretching Beneficial or Detrimental After Spinal Cord Injury? Click Here for Abstract
3:10 PM - 3:20 PM	Stretch Break/Transfer to Nex	kt Session	
3:20 PM - 4:20 PM	General Session 5 Neuromodulation: Participant Perspectives, Public Perceptions, and Practical Applications Click Here for Abstracts	General Session 6 Barriers to Transcend in the Pursuit of Health and Wellness After SCI Click Here for Abstracts	Course 12 TRIP Tools of the Trade: Evaluating Strengths and Limitations of Cardiovascular Assessment Click Here for Abstract
4:20 PM - 4:40 PM	Refreshment Break with Partr	ners & Exhibitors	
4:40 PM - 6:00 PM	Course 13 The Physiology and Function of Exercise: A Multidisciplinary Collaboration for Addressing Excercise, Activity and Wellness with Spinal Cord Injury Click Here for Abstract	Course 14 The State of Clinical Trials: Recent Observations from a Clinical Research Organization (CRO) Per- spective and Implications for New Researchers and Research Programs Click Here for Abstract	Course 15 TRIP Physiological Targets of Therapeutic Acute Intermittent Hypoxia Click Here for Abstract
		DPClinical	BACK TO THE
6:30 PM - 8:30 PM	Presidents Reception: Hosted by Suzanne Groah, The Garden, Intercontinent	MD, MSPH	



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WEDNESDAY, APRIL 19TH All Program times are in Eastern Time (ET)

TIME	WINDSOR BALLROOM	HOPE BALLROOM	TRIPPE BALLROOM
6:30 AM - 6:00 PM	Registration		
7:00 AM - 8:00 AM	Breakfast		
8:00 AM - 9:00 AM	 Awards Session Neilsen Foundation Allied Health Professional Research Award of ASIA Apple Award • Vogel Award • Mulcahey Award • TRoHNS Award Top 3 Oral Talk Awards • Top 3 Poster Awards • Early Career Awards 		
9:00 AM - 9:10 AM	Stretch Break/Transfer to Nex	rt Session	
9:10 AM - 10:30 AM	Course 16 Management of Male Sexual Dysfunction and Infertility After Spinal Cord Injury (SCI) Click Here for Abstract	Course 17 SCI-ENce: Matching the Arrows of ENgineering to the Targets of SCI Medicine Click Here for Abstract	Course 18 TRIP Neurogenic Obesity and Metabolic Dysfunction After Spinal Cord Injury: Translating Observations from Bedside to Bench Click Here for Abstract
10:30 AM - 10:45 AM	Stretch Break/Transfer to Nex	rt Session	
10:45 AM - 11:45 AM	General Session 7 A Tour de Force of the System Wide Impacts of SCI Click Here for Abstracts	General Session 8 The Lived Experience: Health, Heatwaves, and Haute Couture Click Here for Abstracts	Course 19 TRIP What Al and Data Science Can Tell Us About SCI Click Here for Abstract
11:45 AM - 11:55 AM	Stretch Break/Transfer to Nex	rt Session	
11:55 AM - 12:55 PM	Course 20 Addressing Suicide Risk Among Patients with Catastrophic Injury and Neurological Illness Click Here for Abstract	Course 21 Leadership Skills in the Digital Age: Leveraging Social Media for Dissemination to People with Spinal Cord Injury and Study Recruitment Click Here for Abstract	Course 22 TRIP Enhancing Recovery After Spinal Cord Injury with Closed-loop Vagus Nerve Stimulation Click Here for Abstract
12:55 PM - 1:00 PM	Conclusion		







MONDAY, APRIL 17TH, CONTINUED

Course	Moderator	Presenters
COURSE 1 TRIP Closing the Loop: Next-Generation Epidural Stimulation and Neuroethical Lessons from the Past	Ryan Solinsky, MD	David Borton, PhD Jonathan Calvert, PhD Lauren Sankary, JD
COURSE 2 Where to Start? Perspectives and Tools for Crafting a Meaningful Community Engagement Program In SCI Research	Jennifer French, MBA	Kim Anderson-Erisman, PhD Cheryl Vines Melissa Miller, PhD John Chernesky
COURSE 3 Operant Conditioning of Muscle-Evoked Potentials for Enhancing Motor Function Recovery After Spinal Cord Injury	Aiko Thompson, PhD	Sue Ann Sisto, PT, MA, PhD, FACRM Blair H.S. Dellenbach, MSOT Isaac P. Clements, PhD
COURSE 4 TRID Combinatorial Therapies for Functional Restoration after Spinal Cord Injury (presented by SCOPE)	Monica Perez, PT, PhD	Linda Jones, PT, PhD Gordon Mitchell, B.S, PhD Martin Oudega, PhD
COURSE 5 Developing a Strong Base for Athletes of Adaptive Sport: Keys to Keeping an Athlete's Shoulders in the Game	Meegan Van Straaten, PhD, MSPH	Shanterian King, DO Robert Pagan Rosado, M Stephanie Lopez, DPT, PT, ATC
COURSE 6 The Future of SCI Education: Advances, Priorities, and Challenges in the Next Decade	Ronald Reeves, MD	Brittany Snider, DO Steffen Franz, MD Megan Torrance, MBA Steven Jackson, MD, MBA Jeanne Zanca, MPT, PhD
COURSE 7 TRIP Emerging Strategies to Treat Spasticity and Understand Its Role In Motor Control and Recovery After Spinal Cord Injury	Kajana Satkunendrarajah, PhD	Frédéric Brocard, PhD, HDR Carmelo Bellardita, PhD Monica Perez, PT, PhD



COURSES

TUESDAY, APRIL 18TH, CONTINUED

Course	Moderator	Presenters
COURSE 8 TRIP Impaired Respiration and Infection Susceptibility after SCI	Angela Filous, PhD	Philippa Warren, PhD Warren Alilain, PhD Marcel Kopp, MD
COURSE 9 Beyond ISNCSCI: Considerations for Additional Profiling in SCI Clinical Trials	Keith Tansey, MD, PhD, FASNR, FASIA	Steve Kirshblum, MD James Guest, MD, PhD, FACS, FASIA
COURSE 10 Addressing The Priorities of Individuals with Spinal Cord Injury: Spinal Cord Stimulation for Improving Sexual, Lower Urinary Tract, and Bowel Function Following Spinal Cord Injury	Claire Shackleton, PhD	Stacy Elliott, MD, FASIA Raza Malik, PhD Tiev Miller, PhD
The Good, The Bad, and the Unknown: Is Stretching Beneficial or Detrimental After Spinal Cord Injury?	Edelle Field-Fote, PT, PhD, FAPTA, FASIA	Emily Fox, DPT, MHS, PhD David Magnuson, PhD Anastasia Zarkou, PT, PhD
Tools of the Trade: Evaluating Strengths and Limitations of Cardiovascular Assessment Practices	Soshi Samejima	Andrei V. Krassioukov, PhD, MD, FRCPC Tamila Kalimullina, BSc Shane Balthazaar, PhD, RDCS, FASE
COURSE 13 The Physiology and Function of Excercise: A multidisciplinary Colaboration for Addressing Excercise, Activity and Wellness with Spinal Cord injury	Lisa Ruppert, MD	Erin Prentice OT Nina Tamaya DO Kristin Gustafson DO Marissa Malady OT
COURSE 14 The State of Clinical Trials: Recent Observations from a Clinical Research Organization (CRO) Perspective and Implications for New Researchers and Research Programs	Isa McClure PT, MAPT	Jim Hamer, BS Keith Tansey, MD, PhD, FASNR, FASIA
COURSE 15 TRIP Physiological Targets of Therapeutic Acute Intermittent Hypoxia	Gordon Mitchell, PhD	Emily Fox, PT, PhD Elisa Gonzalez-Rothi, PT, PhD Christopher West, PhD Randy Trumbower, PT, PhD



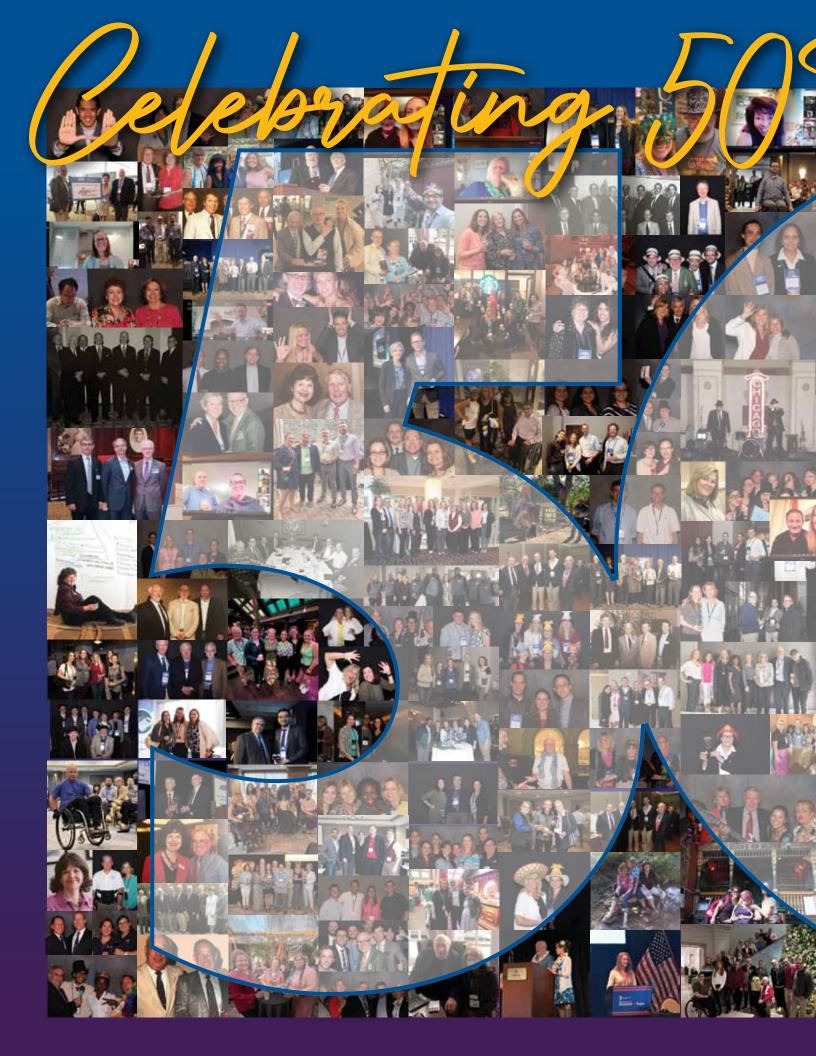


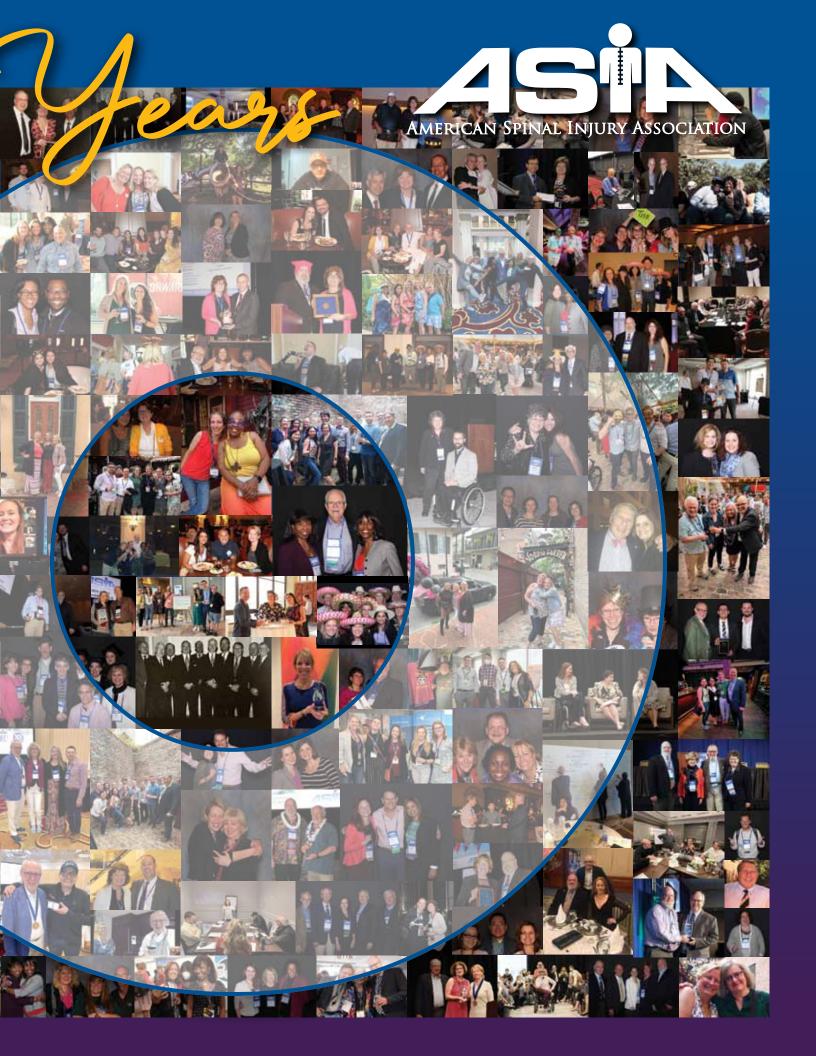


COURSES

WEDNESDAY, APRIL 19TH

Course	Moderator	Presenters
COURSE 16 Management of Male Sexual Dysfunction and Infertility After Spinal Cord Injury (SCI)	Emad Ibrahim, MD, HCLD	Emad Ibrahim, MD, HCLD Stacy Elliott, MD
COURSE 17 SCI-ENce: Matching the Arrows of Engineering to the Targets of SCI Medicine	Dennis Bourbeau,	Keith Tansey, MD, PhD, FASNR, FASIA Quentin Sanders, PhD R James Cotton, MD, PhD Philip Requejo, PhD
Neurogenic Obesity and Metabolic Dysfunction after Spinal Cord Injury: Translating Observations from Bedside to Bench	Gary Farkas, PhD	Cedric Geoffroy, PhD Jae Lee, PhD
What Al and Data Science Can Tell Us About SCI	Abel Torres Espin, PhD	Catherine Jutzeler, PhD Nader Fallah, PhD Russell Huie, PhD
COURSE 20 Addressing Suicide Risk Among Patients with Catastrophic Injury and Neurological Illness	Jacqueline Baron-Lee, PhD	Laurie Baker, PhD Michael Yochelson, MD
COURSE 21 Leadership Skills in the Digital Age: Leveraging Social Media for Dissemination to People with Spinal Cord Injury and Study Recruitment	Jennifer Coker, PhD, MPH	David W McMillan, PhD Amanda Rounds, PhD Cody Unser, MPH
Course 22 TRIP Enhancing Recovery after Spinal Cord Injury with Closed-loop Vagus Nerve Stimulation	Chad Swank	Rita Hamilton, DO Rob Rennaker, PhD Jane Wigginton, MD







2023 ANNUAL SCIENTIFIC MEETING

GENERAL SESSIONS

AWARDS-ELIGIBLE ORAL PRESENTATIONS

TUESDAY, APRIL 18TH • 8:30 AM - 9:40 AM

Moderator: Steven W. Brose, DO

Oral Presentations	Presenters
Motor Scores Prediction from Light Touch and Pin Prick Scores in the International Standards for Neurological Classification of Spinal Cord Injury (ISNCSCI)	Christian Schuld, Msc
Untreated Moderate-To-Severe Sleep-Related Breathing Disorders is Correlated with Increased Number of Silent Episodes of Autonomic Dysreflexia During Sleep in Individuals Living with Subacute or Chronic Spinal Cord Injury: A Prospective Cross-Sectional Study	Julio Furlan, MD, LLB, MBA, PhD, MSc, FRCPC, FAAN
Loss Of Cortical Inhibition in Chronic Spinal Cord Injury: Clinical Implications for Sensorimotor Impairment, Functional Capability, And Self-Care Independence	Jia Liu, PhD
Development of the Pediatric Appraisals of Disability Primary and Secondary Scale (Pedsadapss): Qualitative Methods	Kyle Deane, PhD
Healthcare Experiences of LGBTQ+ Persons Who Live with Spinal Cord Injury	Jenny Kiratli, PhD
NVG-291 Phase 1 Results and Phase 1b/2a Study Design in Individuals with Spinal Cord Injury	Daniel Mikol, MD, PhD





MONDAY, APRIL 17TH, CONTINUED

Oral Presentations	Presenters
11:25 AM - 12:25 PM * Moderator: Matheus Wiest, PhD General Session 1: Ambulation, Copulation and Colonization Topics In SCI	
Safety, Feasibility, and Usability of The ABLE Lower-Limb Robotic Exoskeleton for Individuals with SCI – Results of a European Multicenter Study	Rüdiger Rupp, PhD
Using Classification Trees to Assist Clinicians in Establishing Nuanced Prognosis of Walking Outcomes Following Traumatic Spinal Cord Injury: A Population-Based Study	Antoine Dionne, MD, MSc
The Convergent Validity of the Standing and Walking Assessment Tool (SWAT) Among Individuals with Non-Traumatic Incomplete Spinal Cord Injury: The Spinal Cord Injury Implementation and Evaluation Quality Care Consortium Experience	Cathy Craven MD, MSc, FRCPC, FASIA
Let's Talk About Sex: Male Sexual Dysfunction and Spinal Cord Stimulation Following Spinal Cord Injury	Claire Shackleton, PhD
Pregnancy Outcomes in Women with Spinal Cord Injuries: A Population-Based Study	Deborah Crane, MD, MPH
The Microbiological Burden of Short-Term Catheter Reuse in Individuals with Spinal Cord Injury: A Prospective Clinical Trial	Tiev Miller, PhD
11:25 AM - 12:25 PM * Moderator: John Kramer, PhD General Session 2: From Pediatrics & Pain to Prodding and Population Level S	tatistics
The International SCI Pain Basic Data Set Version 3.0	Eva Widerstrom-Noga, DDS, PhD
Challenges In the Classification of Central Cord Syndrome	Einat Engel-Haber, MD BSc
Transcranial Magnetic Stimulation Assessment in Patients with Subacute Spinal Cord Injury During Inpatient Rehabilitation	Hui-Ting Shih, PT, PhD
Patterns Of Cannabis and Cannabinoid Use Among People with Chronic SCI: Results from A Cross-Sectional Study	Jennifer Coker, PhD, MPH
Pediatric Traumatic Spinal Cord Injury in the United States: A 2019 Nationwide Readmission Analysis	James Crispo, MSc, PhD
The Effects of Concomitant Traumatic Brain Injury (TBI) on the Epidemiology of Spinal Cord Injury (SCI), Access to Treatment Services, and Outcomes After Acute Traumatic SCI: A Propensity-Score Matched Cohort Study Using Data from a Canadian National Registry	Julio Furlan, MD, LLB, MBA, PhD, MSc, FRCPC, FAAN



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Implantable platform for direct, programmed stimulation of the spinal cord

More details on these studies can be found on ir.onwd.com in the News and Events section

^{*}Investigational devices, not available for commercial use

¹Topline results from Up-LIFT pivotal study demonstrate improvement in arm and hand strength and function with ARC^{EX} Therapy

²Positive topline observations from LIFT Home Study with ARC^{EX} Therapy

³Interim outcomes from ARC[™] studies show improvement in blood pressure regulation and quality of life for people with SCI-related orthostatic hypotension



TUESDAY, APRIL 18TH, CONTINUED

Oral Presentations	Presenters	
11:40 AM - 12:40 PM * Moderator: Shane Balthazaar, PhD General Session 3: Vessels, Vasoconstriction, and Ventilation		
Adjuvant Ethyl Nitrite as A Novel Neuroprotective Approach to Hemodynamic Management Following SCI	Ryan Hoiland, PhD	
Item Banks for Measuring the Impact of Blood Pressure Dysregulation on Health-Related Quality of Life in Persons with Spinal Cord Injury	Jill Wecht, EdD	
Vascular Spinal Cord Dysfunction Etiologies and Outcomes 1995-2020	Melanie White, DO, PGY-3	
Elucidating Sympathetic Vasoconstrictor Mechanisms of Autonomic Dysreflexia in Persons with Spinal Cord Injury	Michelle Trbovich, MD	
Noninvasive Spinal Neuromodulation Mitigates Orthostatic Hypotension Following Spinal Cord Injury: Translational Evidence	Rahul Sachdeva, PhD	
Treating Sleep-Related Breathing Disorders with CPAP Therapy for 4 Months Can Improve Sleep Quality and Daytime Alertness, Fatigue, and Mental Health in People with Chronic Spinal Cord Injury: An Update on an Ongoing Study Using Mixed Methods	Julio Furlan, MD, LLB, MBA, PhD, MSc, FRCPC, FAAN	
11:40 AM - 12:40 PM * Moderator: Rajiv Saigal, MD, PhD, FAANS General Session 4: Topics in Acute Phase Clinical Research and Care		
Predicting Subacute Motor Recovery in Tetraplegia by Early Assessment of Subclinical Voluntary Motor Unit Action Potentials and Stimulated Manual Motor Testing	James Wilson, DO	
The Importance of Tracheostomy Management in Cervical Spinal Cord Injured Patients and the Role of Diaphragm Pacing in a Systems Approach	Raymond Onders, MD	
Risk and Protective Factors for Emergency Department Visits and Related Hospitalizations Among Ambulatory Adults with Traumatic Spinal Cord Injury	Nicole DiPiro, PhD	
NX210c Peptide Promotes Functional Recovery and Repair in a Rat Cervical Clip-Compression Model of Spinal Cord Injury	Sighild Lemarchant	
An Electromyographic Method of Hoffman Reflex Assessment Adapted for Hospitalized and Acute Spinal Cord Injury Patients to Study its Evolution During the Spinal Shock Period	Christina-Maria Maalouf	
Challenges And Barriers to Performing Activity-Based Therapy During the First 2 Weeks Following Traumatic Spinal Cord Injury	Antoine Dionne, MD, MSc	



TUESDAY, APRIL 18TH, CONTINUED

Oral Presentations	Presenters
3:20 PM - 4:20 PM * Moderator: Lisa A. Beck MS, APRN, CNS, CRRN General Session 5: Neuromodulation: Participant Perspectives, Public Percepand Practical Applications	itions,
Proof-of-Concept: A Hands-Free Interface for Robot-Assisted Self-Feeding	John Schultz
Shaping Public Perception of Spinal Cord Stimulation: A Scoping Review of Publicly Accessible Web-Based Information	Tiev Miller, PhD
Translation of a Wearable, Non-Invasive Stimulation Device to Treat Incontinence in People with Neurogenic Bladder	Seth Meade, BSE
Spinal Cord Mapping for Pelvic Organ Function Using Non-Invasive Spinal Neuromodulation	Raza Malik, Postdoctoral Fellow
Non-invasive Spinal Neuromodulation for Bowel and Lower Urinary Tract Functions	Soshi Samejima, DPT, PhD
Importance and Feasibility of Measuring Different Biomarkers to Profile Participants and Detect Treatment Effects in SCI Neuromodulation Studies	Keith Tansey, MD, PhD, FASIA
3:20 PM - 4:20 PM * Moderator: Camilo Castillo, MD, MBA General Session 6: Barriers to Transcend in the Pursuit of Health and Wellne	ss After SCI
Main Barriers for Practicing Adapted Sports in Latin America from the Perspective of the Provider Caring for Individuals with a Spinal Cord Injury	Isaac Hernandez Jimenez, MD
The Implementation of National Telehealth Services in Spinal Cord Injury	Candace Tefertiller PT, DPT, PhD, NCS
Spinal Cord Injury Research Participant's Views on Data Sharing	Freda Warner, Dr
Co-Creating Theory – And Evidence-Based Training Modules on Best Practices for Physical Activity Counseling for Adults with Spinal Cord Injury	Femke Hoekstra, PhD
When Both the Destination and Journey Are Important: Ideal Care Pathways for Traumatic Spinal Cord Injury in Ontario	Matheus Wiest, PhD
A Mixed Methods Approach to Evaluating the Feasibility and Acceptability of a Brief Motivational Intervention to Improve Health Behaviors	Alicia January, PhD
	continue



WEDNESDAY, APRIL 19TH

Oral Presentations	Presenters
10:40 AM - 11:40 AM * Moderator: Isa McClure, PT, MAPT General Session 7: A Tour de Force of the System Wide Impacts of SCI	
Sensory Cortical-Locomotor Pathway Restores Walking After Spinal Cord Injury	Kajana Satkunendrarajah, PhD
Comparing Heart Rate Variability Biofeedback Training and Meditation Relaxation Techniques for Pain Management in Individuals with Paraplegia from Spinal Cord Injury: A Pilot Study	Lisa Haubert, MPT, DPT, KEMG
Total Energy Intake Prediction Equations Overestimate Relative to Actual Intake in Spinal Cord Injury	Gary Farkas, PhD
Cardiometabolic Risk Calculations in Spinal Cord Injury/Disorders: Results of an Exploratory Analysis	Khin Chan, MBBS, MS
The Overreaction of the Immune Response After Spinal Cord Injury and Methods to Reduce Inflammation	Daniel Hellenbrand, MS
10:40 AM - 11:40 AM * Moderator: Indira Lanig, MD General Session 8: The Lived Experience: Health, Heatwaves, and Haute Cou	ture
Climate and Healthcare Access: Understanding the (In) Equitable Influence of Extreme Weather Events on Spinal Cord Injured Individuals in Miami, Florida	Daniel Samano, MD, MPH, MSCHc
Social Participation as a Mediator of the Relationships of Socioeconomic Factors and Longevity After Traumatic Spinal Cord Injury	Yue Cao, PhD
Young Adult Programming	Tayla Mangus, MS, OTR/L Lindsay Brinker, PT, DPT
Fashionable: Current Practices and Barriers to Adaptive Clothing Among Individuals with Spinal Cord Injury	Nicole Banting
Fashionable: Perspectives on Functional and Fashion-Friendly Adaptive Clothing Among Individuals with Spinal Cord Injury	Bianca Magdangal
Complementary and Integrative Healthcare Coverage for People with Spinal Cord Injury in the Spinal Cord Injury Model Systems	Bria MacIntyre, MS
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2023 ANNUAL SCIENTIFIC MEETING

POSTERS

AWARDS-ELIGIBLE POSTERS

- 1 FashionABLE: Health Care Practitioners'
 Perspectives on Adaptive Clothing After Spinal
 Cord Injury
 - * Tamila Kalimullina, BSc
- Work-Related Spinal Cord Injury (SCI): Does Race/Ethnicity Matter?
 - Huacong Wen, PhD
- 3 Effects of Midodrine Administration Over a 30-Day Period Compared to Placebo, on Blood Pressure and Cerebral Blood Flow Velocity and Cognitive Performance in Persons with SCI
 - Caitlyn Peters, PhD
- 4 The Gut Microbiome After SCI: A Preliminary Analysis of Bacterial Quorum Sensing Molecules to Identify Molecular Mechanisms of GI Dysfunction ❖ Mark Nash, PhD, FACSM, FASIA
- 5 Feasibility Study of Smart Seat Cushion for Automated Interface Pressure Modulation
 - Aida Nasirian, Research Scientist II
- 6 Comparative Efficacy of Four Different Transcranial Current Stimulation Modalities and Montages for Enhancing Corticospinal Excitability and Improving Upper Extremity Functional Restoration in Persons with Tetraplegia
 - Jennifer Iddings, PhD

- 7 Effects of Lumbosacral Spinal Cord Epidural Stimulation on Plasma Catecholamine Concentrations During Orthostatic Stress in Individuals with Chronic Spinal Cord Injury Sigi Wang, PhD
- 8 Multi-session Application of Transcranial Random Noise Stimulation to Improve Hand Function in Persons with SCI
 - Anastasia Zarkou, PT, MS, PhD
- 9 Alterations of Visual Cortex in Chronic Adult SCI: The Underpinnings of the Resting State BOLD fMRI * Laura Krisa, PhD
- 10 American Spinal Injury Association (ASIA) Impairment Scale (AIS) Conversion Underestimates Neurological Recovery Following Traumatic Spinal Cord Injury
 - Winward Choy, MD

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Physical Medicine and Rehabilitation - med.miami.edu/departments/physical-medicine-and-rehabilitation South Florida Spinal Cord Injury Model System - med.miami.edu/programs/sfscims





2023 ANNUAL SCIENTIFIC MEETING

POSTERS

ACUTE CARE

- Exploratory Analyses of Factors Associated with
 Discharge Home after Acute SCI Inpatient Rehabilitation
 Benjamin Dirlikov
- 12 A Pilot Survey Identifying Gaps in Spinal Cord Injury Intervention in Post-Acute Settings: A Therapist's Perspective
 - Rebecca Hutton, OTS
- 13 Metabolite's Role in Bio-Fluids as A Prognostic Indicator of Neurological Recovery In Acute Spinal Cord Injury (ASCI)
 - Alka Singh, Dr.

BOWEL/BLADDER

- 14 Changing Bowel Pattern in Young Man with Chronic Paraplegia and Neurogenic Bowel: A Case Report * Kaila Yeste, DO
- 15 Can Urinalysis or Urine Culture Describe a "Pre-Symptomatic" State in People with Neurogenic Lower Urinary Tract Dysfunction Who Use Intermittent Catheterization?
 - Allison Maxwell, BA
- 17 The Temporal Burden Associated with Preparing Catheters for Reuse Among People with Spinal Cord Injury: A Cross-Sectional Study
 - Liza Roik

CARDIOVASCULAR

- 18 May I Have This Dance: A Case-Series on the Acute Cardiometabolic Demand and Psychosocial Effects of Wheelchair Dancing in Recreational Para-Dancers with Spinal Cord Injury
 - Tiev Miller, PhD
- 20 Risk of Ischemic Heart Disease Readmission After Traumatic Spinal Cord Injury
 - Analisa Jia, MSc
- 21 Vascular Spinal Cord Dysfunction Survival Analysis and Hazard Ratio 1995-2020
 - Melanie White, DO, PGY-3

DATASETS

- **22** Breastfeeding for Mothers with Spinal Cord Injury: A Narrative Review on the Quality and Availability of Current Guidelines
 - Tiev Miller, PhD
- **23** Retrospective Analysis of the Treatment of BPPV in Persons with Sub-Acute Spinal Cord Injury
 - Ryan Koter, PT, DPT
- 24 Differences in Personal Characteristics, Emergency Department Utilization, and Hospitalizations Among Ambulatory and Non-Ambulatory Adults with Traumatic Spinal Cord Injury
 - Nicole DiPiro, PhD
- 25 Utilization of Machine Learning Techniques in Prediction of Hospital Readmission During One Year Post Spinal Cord Injury
 - Salma Aly, MD
- 26 The Influence of Concomitant Traumatic Brain Injury on The Survival, and Neurological and Functional Recovery After Acute Traumatic Spinal Cord Injury: A Retrospective Cohort Study Using Data from the NASCIS-3 Trial Julio Furlan, MD, LLB, MBA, PhD, Msc, FRCPC, FAAN
- **27** The State of Spinal Cord Injury Rehabilitation in Youth in Latin America
 - Isaac Hernandez Jimenez, MD
- **28** Wheelchair Rugby Participation in Spinal Cord Injury Individuals in Argentina
 - Isaac Hernandez Jimenez, MD

EXERCISE

- 29 Preliminary Findings for a Sequential Multiple Assignment Randomized Trial (SMART) to Increase Adherence to Home Exercise in People with Spinal Cord Injury
 - Jereme Wilroy, PhD
- 30 3 Months of Blood Flow Restriction Training Improves Gait Capacity in Chronic Incomplete Spinal Cord Injury Jane Alkhazov, PT, DPT
- **31** Integrating Activity-Based Therapy into Subacute Spinal Cord Injury Rehabilitation
 - Catherine Farrell, PT, NCS
- **32** Spinal Cord Injury Enrollment Experiences in Studies Using Overground Exoskeleton Gait Training During Inpatient Rehabilitation
 - Faith Meza, MPH, CPH



POSTERS

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- **33** Cortical Areas of Activation Following the ISNCSCI Test of Injury Completeness: a Pediatric fMRI Study
 - Laura Krisa, PhD
- 34 Perturbations of BOLD fMRI Signal of Human Occipito-Temporal Visual Cortex in Chronic Pediatric SCI Population
 - Laura Krisa, PhD

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36 Feasibility of Conducting the International Standards to Document Autonomic Function Following Spinal Cord Injury (ISAFSCI) in Newly Injured Patients with SCI

❖ Ivani Progno, MBS

MEASURMENT & EVALUATION TOOLS

- **38** Ultrasound Evaluation of Infralesional Muscle Integrity Following Cervical Spinal Cord Injury
 - Hannah Ro, Fourth-Year Undergraduate Student
- 39 Setting Up a Platelet-Rich Plasma Protocol for Pressure Injury Management in a Spinal Cord Injury/Disorder Unit
 ❖ Kevin Suarez, MD
- **40** Wearable Sensors to Measure Shoulder Motion in the Free-Living Environment in Wheelchair Users with SCI: Technical Challenges and Recommendations
 - Melissa Morrow, PhD
- **42** Increasing Falls and Alcohol: Changes in the Etiology of Traumatic Spinal Cord Injuries in the Upper Midwest United States
 - Ben Johnson, N/A
- **43** Ultrasound Evaluation of Diaphragm Function in Patients with SCI: Lessons Learned, Future Directions
 - Philippines Cabahua, MD

NEUROMODULATION

- **44** A Brain-Computer Interface Neuromodulation Intervention to Reduce Neuropathic Pain After Spinal Cord Injury
 - Negin Hesam-Shariati, PhD
- **45** Implantable Health Monitoring for Spinal Cord Injury
 ❖ Kevin Kilgore, PhD

- **46** Axial Damage Ratio May Relate to Standing Performance Following Percutaneous Epidural Stimulation in Persons with Spinal Cord Injury
 - Ahmad Alazzam, B.S.
- **47** Effects of Transcutaneous Spinal Stimulation Versus Whole Body Vibration on Quadriceps Spasticity in Persons with Spinal Cord Injury
 - Evan Sandler, PT, DPT
- **48** Quantifying Neuromodulation in Persons with SCI: A Comparison of Modulatory Responses to Low-Frequency Depression Versus Paired-Pulse Stimulation
 - Charles Creech, PT, DPT
- **49** Optimizing Transcutaneous Spinal Stimulation Through Efficient Assessment of Posterior Root Muscle Reflex Excitability
 - Oliver Daliet IV, MS
- 50 Optimizing Deep Brain Stimulation of the Midbrain Locomotor Region for Gait Control After Incomplete Spinal Cord Injury in a Translational Large Animal Model ◆ Brian Noga, PhD
- 51 Single Lead Midline Epidural Stimulation Immediately Restored Trunk Control and Standing in a Person with Complete Paraplegia
 - Ashraf Gorgey
- **52** Utilizing Neuromodulation in the Treatment of Spinal Cord Injury: An Assessment of Clinical Trials from the National Clinicaltrials. Gov Database
 - Moshe Shalom, Medical Student

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- **53** Effects of Repositioning Angle on Interface Pressure Using Automated Bed in Spinal Cord Injury Patients ❖ Onyoo Kim, MD
- 54 Community Evaluation of a Novel Real-Time Pressure Sensing and Pressure Relief Activity Feedback System for Manual Wheelchair Users with Spinal Cord Injury: A Focus Group Analysis
 - ❖ Jack Janett, B.S. Human Biology
- **55** Measuring Pressure Within Pressure Ulcers A Biomechanical Approach
 - Gregory Dimas, MD
- **56** Evaluating Independent In-Bed Mobility During Sleep After Acute Spinal Cord Injury to Assess the Risk of Pressure Injuries
 - Jean-Marc Mac-Thiong, MD, PhD

continued



POSTERS

PSYCHOSOCIAL

- **57** Implementation of a Formal Education Program for Caregivers and Youth with SCI/D
 - Kristen Wagner, PT, DPT
- **58** Positive Psychosocial Changes Relating to Physical Activity Behavior After Participation in a Group Tele-Exercise Program for Individuals with SCI
 - Laura Baehr, PT, DPT, PhD(c) (defense 2/2023)
- 59 Physical and Psychosocial Features of Exercisers vs. Non-Exercisers with SCI Enrolled in a Group Tele-Exercise Program
 - Laura Baehr, PT, DPT, PhD(c) (defense 2/2023)
- 60 Pain and Life Satisfaction: The Role of Emotional Support and Social Participation in Adults with Pediatric-Onset Spinal Cord Injury
 - Alison Oh, MS
- **61** Frequency of Employment and Factors Related to Labor Activity Inclusion in Patients with Spinal Cord Injury at the National Institute of Rehabilitation in Mexico
 - Karla Zarco Ordóñez, MD
- **62** Problem Solving and Collaborative Involvement Among Adolescents with Spinal Cord Injury and their Caregivers ❖ Olivia Clark, MA
- **63** Developing a Community-Based Peer-Mentoring Program for Adolescents and Young Adults After Spinal Cord or Brain Injury
 - Shari Mcdowell, PT, DPT
- **64** Recruitment Challenges in a Tele-Psychology Intervention for Persons with Spinal Cord Injury
 - Cria-May Khong, BS

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- 66 A Lifestyle Intervention Trial Targeting Enhanced Health and Function for Persons with Chronic SCI in Caregiver/ Care-Receiver Relationships
 - Gregory Bigford, PhD MSBA
- **67** Lifestyle Intervention for Caregiver/Care-Receiver Dyads in Chronic Spinal Cord Injury
 - Gregory Bigford, PhD MSBA
- **68** SPINE: Specialized Progression of Independence and Wellness for Adolescents with a Spinal Cord Injury
 - Caitlin Jones, PT, DPT, Board-Certified Clinical Specialist in Neurologic Physical Therapy

- **69** Satisfaction With Life In Patients With Spinal Cord Injury at the National Rehabilitation Institute "Luis Guillermo Ibarra Ibarra" in the Period 2015-2020
 - Bryant Martinez, MD
- 70 Changes In Employment, Health, Participation, and Quality-Of-Life and the Relationships with Survival After Spinal Cord Injury
 - Yue Cao, PhD

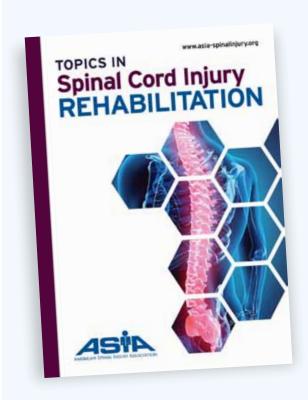
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 - Benjamin Petrie, MD
- **72** Virtual Outings: Merging Technology and Community Training
 - Shari McDowell, PT, DPT

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 - Kevin Foglyano, BSE
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 - Shannon Inches, Marjorie Morgan
- 75 Denervation Impacts Muscle Quality and Knee Bone Mineral Density Compared to Upper Motor Neuron Injury After Spinal Cord Injury
 - Ahmad Alazzam, B.S.
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- **77** Ziconotide for Spinal Cord Injury-Related Pain and Motor and Sensation Recovery
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 - Philip Requejo, PhD
- 79 Long Duration, Low-Concentration Topical Capsaicin Diminishes the Development of Central Sensitization
 - Lukas Linde, PhD

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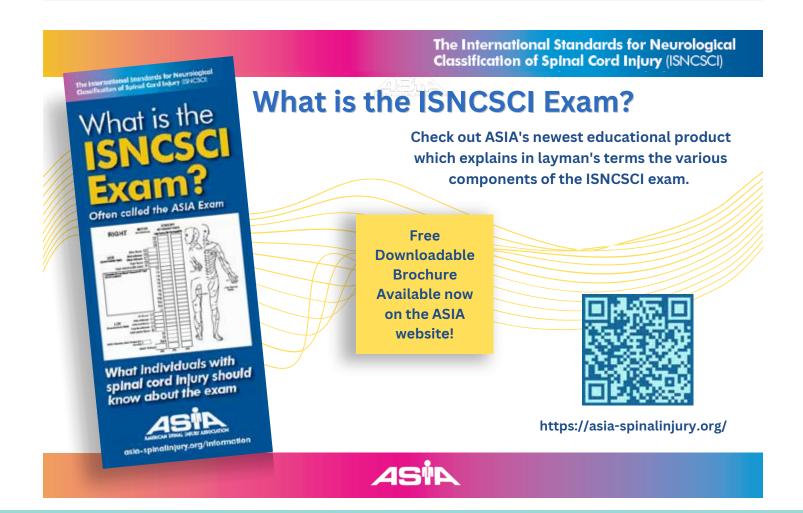


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POSTERS

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 - Michelle Trbovich, MD
- **81** Development of a Standardized Weaning Protocol for Intrathecal Baclofen Pump Removal Due to Pump Infection
 - Adria Petriello, DO
- **82** Leg Stretching Using a Robotic Leg Exoskeleton in People with Spasticity
 - Naciye Bilgin Badur

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- **83** A Rare Case of Horner Syndrome after Post Operatory Anterior Cervical Laminectomy in a Non-Traumatic Spinal Cord Injury
 - Robbie Veriker, MD
- **84** Inclusion of Non-Traumatic Spinal Cord Injury in Spinal Cord Injury Model Systems Database: One Center's Experiences
 - Yuying Chen, MD, PhD
- **85** Rehabilitation Outcomes for Patients with Epidural Lipomatous Myelopathy Compared to Traumatic Spinal Cord Injury
 - Ben Johnson, N/A
- **86** Demographics and functional outcomes in Non-Traumatic vs Traumatic Spinal Cord Injury
 - Ana Valeria Aguirre Guemez, MD

OTHER

- **87** Standardized 3D Printed Devices with Patient Specific Interfaces
 - Jared Grier, B.S. ME
- 88 Integration of Multi-Functional Nanostructured Microelectrodes onto a Mechanically-Adaptive Polymer Nanocomposite for Neural Interfacing Applications Allison Hess-Dunning, PhD
- **89** Goals Categories Identified by Patients After Peripheral Nerve Transfer (PNT)
 - Parvin Eftekhar
- **90** Perceived Impact of the COVID-19 Pandemic Among People with Spinal Cord Injury: A Descriptive Study *❖ James Krause, PhD*
- **91** Functional Improvements Caused by the Utilization of Myoelectric Powered Wearable Orthotics in Persons with Chronic SCI
 - Ghaith Androwis
- **92** Patient-Centered Strategies to Engage and Retain Participants in Clinical Trials
 - Amanda Rounds, PhD
- **93** Segmental Infralesional Denervation Following Cervical Spinal Cord Injury
 - Michael Berger, MD, PhD, FRCPC, CSCN (EMG)
- **94** Main Barriers for Practicing Adapted Sports in Latin America from the Perspective of the Provider Caring for Individuals with a Spinal Cord Injury.
 - Josefina Martinez Paz, PT, Universidad Católica de Córdoba



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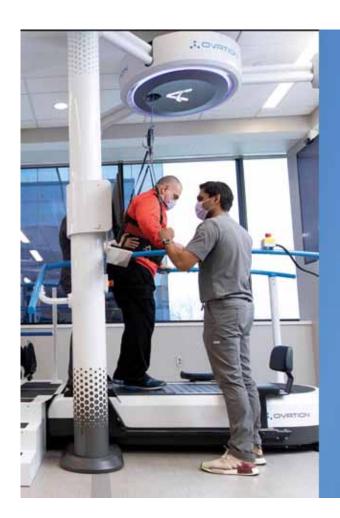


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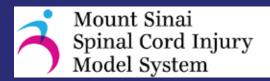
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