American Spinal Injury Association

ANNUAL

SCIENTIFIC MEETING

2021

JULY 8-10 • 2021
PRE COURSE • JULY 7

St. Louis Union Station Hotel
1820 MARKET STREET • ST. LOUIS, MISSOURI 63103
Research from the SCI Model Systems Pre-Course: Understanding Spinal Cord Injury from Cell to Community

**PRE-COURSE PROGRAM CHAIRS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/control</th>
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<tbody>
<tr>
<td>Leslie Morse, DO</td>
<td>Department Head, Professor, Department of Rehabilitation Medicine</td>
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<tr>
<td>Jeanne M. Zanca, PhD, MPT, FACRM</td>
<td>Senior Research Scientist</td>
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<td>Spinal Cord Injury Research, Kessler Foundation</td>
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**WEDNESDAY, JULY 7TH: PRE-COURSE SCHEDULE**

All Program times are in Central Time (CT)

<table>
<thead>
<tr>
<th>TIME</th>
<th>TOPIC</th>
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<tbody>
<tr>
<td>9:00 AM - 9:15 AM</td>
<td>Welcome and Introduction</td>
<td>Allen Heinemann, PhD</td>
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<tr>
<td>9:15 AM - 10:30 AM</td>
<td>SESSION 1: Neurological and Functional Recovery</td>
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<td></td>
<td>1.1 The Value of Trauma Indicators in Understanding Outcomes in Persons with Traumatic Spinal Cord Injury: The Case of Blood Alcohol Level</td>
<td>Mary Joan Roach, PhD</td>
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<td>1.2 Influence of Intensive Locomotor Skill Training and Non-Invasive Brain Stimulation in Chronic Spinal Cord Injury: A Pilot Randomized Clinical Trial</td>
<td>Nicholas Evans, MHS, CEP, PhD Candidate</td>
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<td>1.3 A Randomized Comparative Effectiveness Trial to Evaluate Two Programs for Promotion of Physical Activity after Spinal Cord Injury in Manual Wheelchair Users</td>
<td>Sara Mulroy, PhD, PT</td>
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<td>1.4 Differential Expression of microRNA Regulators of Neuronal Apoptosis in Individuals with Spinal Cord Injury</td>
<td>Jesse L. Kowalski, PT, DPT, PhD Candidate</td>
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<tr>
<td>10:30 AM - 11:45 AM</td>
<td>SESSION 2: Using Technology to Enhance Health and Function</td>
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<td>2.1 Factors Influencing Incidence of Wheelchair Repairs and Consequences Among Individuals with Spinal Cord Injury</td>
<td>Michael Boninger, MD</td>
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<td>2.2 Budget Impact Analysis of Robotic Exoskeleton Use for Locomotor Training Following Spinal Cord Injury in Four SCI Model Systems</td>
<td>Daniel Pinto, PT, DPT, PhD</td>
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<td>2.3 Promoting the Psychological Health of Women with Spinal Cord Injury: A Virtual World Intervention</td>
<td>Susan Robinson-Whelen, PhD</td>
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<td>2.4 Effectiveness of Group Wheelchair Maintenance Training for People with Spinal Cord Injury: A Randomized Controlled Trial</td>
<td>Lynn Worobey, PhD, DPT, ATP</td>
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<td>11:45 AM - 1:00 PM</td>
<td>Lunch (on your own)</td>
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<td>1:00 PM - 2:00 PM</td>
<td><strong>SESSION 3: Secondary Complications</strong> (Part 1)</td>
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<td>3.1 Prediction of Acute SCI-Associated Infections (SCI-AI) by Markers of Autonomic Instability (PROSPECT-ADDITION-SCI) Study</td>
<td>Jan Schwab, MD, PhD</td>
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<td>3.2 Autonomic Impairment and Hemodynamic Dysfunction in Individuals with Acute Spinal Cord Injury</td>
<td>Jill Wecht, EdD</td>
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<td>3.3 Impact of Pain at Follow-up in Individuals with SCI</td>
<td>Elizabeth Roy Felix, PhD</td>
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<td>2:00 PM - 3:00 PM</td>
<td><strong>SESSION 4: Secondary Complications</strong> (Part 2)</td>
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<td>4.1 Mortality Beyond the First Year after Spinal Cord Injury: Does Body Mass Index Matter?</td>
<td>Huacong Wen, MD, PhD</td>
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<td>4.2 Gut Microbiome Composition and Serum Metabolome Profile Among Individuals with Spinal Cord Injury and Normal Glucose Tolerance or Prediabetes/Type 2 diabetes</td>
<td>Ceren Yarar-Fisher, PT, PhD</td>
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<td>4.3 Early SCI Stakeholders’ Perceived and Objectively Measured Cardio-Endocrine Disease Risks</td>
<td>Mark Nash, PhD</td>
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<td>3:00 PM - 3:15 PM</td>
<td><strong>Refreshment Break</strong> (15 minutes)</td>
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<td>3:15 PM - 4:45 PM</td>
<td><strong>SESSION 5: Community Life and Long-Term Outcomes</strong></td>
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<td>5.1 Demographic and Health Profiles of People Living with Spinal Cord Injury 2015-2019</td>
<td>Yuying Chen, MD, PhD</td>
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<td>5.2 Pregnancy, Labor, and Delivery Outcomes of Women with and without Spinal Cord Injury: A Prospective/Retrospective Comparison Study</td>
<td>Amie McLain, MD</td>
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<td>5.3 A Concordance Table to Convert FIM Basic Mobility and Self-Care Scale Scores to SCI-FI/AT Scores</td>
<td>Mary Slavin, PT, PhD</td>
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<td>5.4 Why Do People Move After Spinal Cord Injury? Perceptions of Disability, Housing, and Neighborhoods from a Spinal Cord Injury Model Systems Module Study</td>
<td>Amanda Botticello, PhD, MPH</td>
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<td>5.5 Resilience and Health Outcomes in Chronic Spinal Cord Injury</td>
<td>Heather Taylor, PhD</td>
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<td>4:45 PM - 5:00 PM</td>
<td><strong>Discussion/Summation</strong></td>
<td>Leslie Morse, DO</td>
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<td>Jeanne Zanca, PhD, MPT</td>
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The contents of this educational program were developed under several grants from the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). NIDILRR is a Center within the Administration for Community Living (ACL), Department of Health and Human Services (HHS). The contents of this program do not necessarily represent the policy of NIDILRR, ACL, HHS, and you should not assume endorsement by the Federal Government.
### THURSDAY, JULY 8TH  
**All Program times are in Central Time (CT)**

<table>
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<th>TIME</th>
<th>REGENCY C</th>
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<tr>
<td>7:00 AM - 6:00 PM</td>
<td>Registration</td>
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<td>7:00 AM - 8:00 AM</td>
<td>Early Career Breakfast</td>
<td>Breakfast with Exhibitors &amp; Partners</td>
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<tr>
<td>8:00 AM - 8:30 AM</td>
<td>Catch Up With Your Colleagues!</td>
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</table>
| 8:30 AM - 8:45 AM| Welcome and Introduction            | Welcome to the 2021 Annual Scientific Meeting | President Andrei Krassioukov, MD, PhD, FRCPC  
|                  |                                    |                                        | ASIA President (2019 - 2021)  
|                  |                                    |                                        | ICORD-BCSS, UBC GF Strong Rehabilitation Centre  
|                  |                                    |                                        | Vancouver, Canada  
| 8:45 AM - 9:30 AM| Sell Lecture: The physiologic and molecular consequences of spinal cord stimulation after cervical spinal cord injury: Does electrode position matter?  
|                  |                                    |                                        | Philip J. Horner, PhD  
|                  |                                    |                                        | Dr. Horner is the Scientific Director of the Center for  
|                  |                                    |                                        | Neuroregeneration, Co-Director of Center for Regenerative  
|                  |                                    |                                        | and Restorative Neuroregeneration, Vice Chairman, Research, Department of  
|                  |                                    |                                        | Neurosurgery, Professor and Full Member of Research Institute with Houston  
|                  |                                    |                                        | Methodist Neurological Institute.  
|                  |                                    |                                        | ![Click Here for Abstract](Click Here for Abstract)  
| 9:30 AM - 10:15 AM| Posters Session 1 / Break with Exhibitors & Partners |                                        |                                    |
| 10:15 AM - 11:00 AM| Exhibitor/Partner Recognition      |                                        |                                    |
| 11:00 AM - 11:15 AM| Stretch Break / Transfer to Next Session |                                    |                                    |
|                  | ![Click Here for Abstract](Click Here for Abstract)  
|                  | ![Click Here for Abstract](Click Here for Abstract)  
|                  | ![Click Here for Abstract](Click Here for Abstract)  

**2021 ANNUAL SCIENTIFIC MEETING**

**NEW ORLEANS**  
**www.asia-spinalinjury.com**  
**2021 ANNUAL SCIENTIFIC MEETING**

**PRE COURSE JULY 7  & JULY 8-10  & ST. LOUIS UNION STATION HOTEL  & 1820 MARKET STREET  & ST. LOUIS, MISSOURI**
## THURSDAY, JULY 8TH, CONTINUED

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<th>TIME</th>
<th>BALLROOM A</th>
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<tr>
<td>12:15 PM - 1:15 PM</td>
<td>Lunch with Exhibitors &amp; Partners</td>
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| 1:15 PM - 2:15 PM    | **COURSE** The Science of Sleeplessness: Sleep-Related Considerations After Spinal Cord Injury
|                      |                                                                           | **GENERAL SESSION** Clinical Pearls in the Acute Care Setting
|                      |                                                                           | • Click Here for Abstract
|                      |                                                                           | **COURSE** Applications of Machine Learning and Artificial Intelligence to Solve Big Data Problems in Clinical Research: As Illustrated in TRACK-SCI (1:15 - 2:30 PM)
|                      |                                                                           | • Click Here for Abstract
| 2:15 PM - 2:30 PM    | Stretch Break / Transfer to Next Session                                  |                                                                           |                                                                           |
| 2:30 PM - 3:30 PM    | **COVID-19 Abstracts/Research**                                           |                                                                           |                                                                           |
|                      | • Click Here for Abstract                                                 |                                                                           |                                                                           |
| 3:30 PM - 4:00 PM    | Refreshment Break with Partners and Exhibitors                            |                                                                           |                                                                           |
| 4:00 PM - 5:00 PM    | **COURSE** Evidence About ISNCSCI’s Accuracy and Recent Evolution         | **GENERAL SESSION** Gender Bias in Research and Treatment
|                      |                                                                           | • Click Here for Abstract
|                      |                                                                           | **COURSE** Magnetic Resonance Imaging as a Clinical Predictor: Advances and Challenges
|                      |                                                                           | • Click Here for Abstract
|                      |                                                                           | **COURSE** A Rodent-Human Sensorimotor Outcomes Matrix: Overlap and Gaps (Sponsored by SCOPE)
|                      |                                                                           | • Click Here for Abstract
| 5:00 PM - 6:30 PM    | **GENERAL SESSION** Hearts, Hands, Health                                | **GENERAL SESSION** Topics in Tissue Injury: Predicted Metrics, Preventative Measures, and Accidental Deaths
|                      | • Click Here for Abstract                                                 | • Click Here for Abstract
|                      |                                                                           | • Click Here for Abstract

### Pack Your Bags!

PRE COURSE JULY 7 • JULY 8-10 • ST. LOUIS UNION STATION HOTEL • 1820 MARKET STREET • ST. LOUIS, MISSOURI
**FRIDAY, JULY 9TH** All Program times are in Central Time (CT)

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<td>7:15 AM - 6:00 PM</td>
<td>Registration</td>
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<td>7:15 AM - 8:15 AM</td>
<td>Breakfast with Exhibitors and Partners</td>
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| 8:15 AM - 9:00 AM | **Keynote Talk:**  
> Spinal Cord Gateways to Restore Neurological Function  
> Gregoire Courtine, PhD and Jocelyne Bloch, MD  
> Gregoire Courtine, PhD is Professor of Neuroscience and Neurotechnology École Polytechnique Fédérale de Lausanne (EPFL)  
> Swiss Federal Institute of Technology, Lausanne, Switzerland  
> Click Here for Abstract |            |            |            |
| 9:00 AM - 10:10 AM | **Award Eligible Oral Presentations**  
1. 1H NMR Urine Metabolomics is an Effective Prognostic Indicator in Acute Spinal Cord Injury (ASCI)  
   Rajeshwar Nath Srivastava  
   Click Here for Abstract  
2. miR-19a and miR-19b Discriminate Between Presence and Absence of Neuropathic Pain in Chronic SCI  
   Ricardo Battaglino, PhD  
   Click Here for Abstract  
3. Lifetime Abuse Experience of Women with Spinal Cord Injury  
   Susan Robinson-Whelen  
   Click Here for Abstract  
4. The Current State of Spinal Cord Injury Rehabilitation in Latin America  
   Camilo Castillo, MD  
   Click Here for Abstract  
5. Phase 2 Study Design Evaluating Safety and Efficacy of Elezanumab in Patients with SCI  
   Kim Pfleeger, PhD  
   Click Here for Abstract  
6. Prevalence Estimates of Prescription Opioids Among Individuals with Spinal Cord Injury  
   James Krause, PhD  
   Click Here for Abstract  
7. The Unique Impact of COVID-19 on Individuals with Cervical SCI  
   Allison L'Hotta  
   Click Here for Abstract |            |            |            |
| 10:10 AM - 10:55 AM | **Posters Session 2** / Break with Exhibitors & Partners |            |            |            |
| 10:55 AM - 11:55 AM | **COURSE**  
> Networking Tips for Early Career Members: Conquering an In-Person or Virtual Conference  
> Click Here for Abstract  
| 11:55 AM - 12:55 PM | **COURSE**  
> Surgical Spinal Options: Traumatic / Non-Traumatic SCI Point / Counter Point  
> Click Here for Abstract  
| 11:55 AM - 12:55 PM | **GENERAL SESSION**  
> Topics in Neuromodulation and Statistics  
> Click Here for Abstracts  
|
### FRIDAY, JULY 9TH, CONTINUED

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<th>TIME</th>
<th>BALLROOM A</th>
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<tr>
<td>12:55 PM - 1:55 PM</td>
<td><strong>COURSE</strong>&lt;br&gt;State of Healthcare Accessibility for Individuals with SCI: Experiences Seeking Primary Care and Laws / Practices Surrounding Healthcare  ● Click Here for Abstract</td>
<td><strong>COURSE</strong>&lt;br&gt;Integrative Care: Concepts of Acute Rehabilitation &amp; Neurointensive Care After Acute Spinal Cord Injury  ● Click Here for Abstract</td>
<td><strong>COURSE</strong>  ● TRIP Barriers to Functional Recovery from SCI: Pain and its Management (part 1)  ● Click Here for Abstract</td>
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<tr>
<td>1:55 PM - 2:10 PM</td>
<td>Stretch Transfer to Next Session</td>
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<td>2:10 PM - 3:10 PM</td>
<td><strong>COURSE</strong>&lt;br&gt;Emerging Models of Care / Leveraging Technology to Improve Care: Emerging Models for Care and Electronic Health Records  ● Click Here for Abstract</td>
<td><strong>COURSE</strong>&lt;br&gt;Integrative Care: Bracing for Acute and Chronic Spine Disorders  ● Click Here for Abstract</td>
<td><strong>COURSE</strong>  ● TRIP Barriers to Functional Recovery from SCI: Pain and its Management (part 2)  ● Click Here for Abstract</td>
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<tr>
<td>3:10 PM - 3:40 PM</td>
<td>Refreshment Break with Exhibitors and Partners</td>
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<td>3:40 PM - 4:40 PM</td>
<td><strong>COURSE</strong>&lt;br&gt;Disability Education: Enlightening Future Providers: Training Future Providers: LCME / ACGME Standards and an Education Program in Disability Care  ● Click Here for Abstract</td>
<td><strong>COURSE</strong>&lt;br&gt;Nerve Transfers for Restoring Upper Extremity Function After Spinal Cord Injury  ● Click Here for Abstract</td>
<td><strong>COURSE</strong>  ● TRIP Understanding and Treating Spasticity and Spasms Following Spinal Cord Injury (3:40 - 4:55 PM)  ● Click Here for Abstract</td>
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<td>4:40 PM - 5:00 PM</td>
<td>Stretch Transfer to Next Session</td>
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<tr>
<td>5:00 PM - 6:00 PM</td>
<td><strong>COVID-19 Abstracts/Research – Session II</strong>  ● Click Here for Abstract</td>
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<tr>
<td>6:30 PM - 8:00 PM</td>
<td><strong>PRESIDENTS RECESSION</strong>&lt;br&gt;Hosted by Andrei Krassioukov, MD, PhD, FRCPC</td>
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### Saturday, July 10th

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<td>7:00 AM - 6:00 PM</td>
<td>Registration</td>
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<td>7:00 AM - 8:00 AM</td>
<td>Breakfast with Exhibitors and Partners</td>
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<tr>
<td>8:00 AM - 9:00 AM</td>
<td>Awards Session: Neilsen Foundation Allied Health Professional Research Award of ASIA • Apple Award • Vogel Award • Mulcahey Award • TRoHNS Award • Anthony DiMarco Award • Top 3 Oral Talk Awards • Top Poster • Early Career</td>
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<tr>
<td>9:00 AM - 10:00 AM</td>
<td>COURSE Health Care Access and Medical Management of Sexuality, Fertility and Pregnancy for Women with Spinal Cord Injury/Dysfunction</td>
<td>COURSE Neuromodulation and Pain Syndromes</td>
<td>COURSE TRIP The Impact of SARS-CoV-2 and COVID-19 in the SCI Population: Emerging Findings from the Bench and Bedside (9:00 -10:15 AM)</td>
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<tr>
<td>10:00 AM - 10:15 AM</td>
<td>Stretch Break / Transfer to Next Session</td>
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<tr>
<td>10:15 AM - 11:15 AM</td>
<td>COURSE Approaches to Treatment in Pediatric SCI: Goal Setting and Treatment Challenges</td>
<td>GENERAL SESSION Chronic Care Considerations: Exercise, ER Visits, &amp; Elder Care</td>
<td>COURSE TRIP Restoring Bladder Function: An Interactive Session Between Clinician, Engineer, and Person with SCI Lived Experience</td>
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<td>11:15 AM - 11:30 AM</td>
<td>Stretch Break / Transfer to Next Session</td>
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<td>11:30 AM - 12:30 PM</td>
<td>COURSE SCITrialsFinder.net Facilitating Clinical Trial Recruitment Through Website Analytics</td>
<td>COURSE TRIP Restoring Upper and Lower Extremity Motor Function After Spinal Cord Injury: An Interactive Session Between Clinician, Engineer, and Person with SCI Lived Experience</td>
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<tr>
<td>12:30 PM</td>
<td>Conclusion</td>
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AWARD-ELIGIBLE POSTERS

1. Can Early MRI Measures Predict Who Will Walk Outside One Year After Spinal Cord Injury?
   - Andrew Smith

   - Margo Randelman

3. Diffusion Tensor Imaging as a Biomarker to Identify Microstructural Changes in Pediatric Spinal Cord Injury
   - Laura Krisa

4. Digital Phenotyping to Quantify Psychosocial Trajectories After Spinal Cord Injury
   - Hannah Mercier

5. Identifying Challenges in Adherence to Follow-Up Medical Appointments 6 Months After Traumatic Spinal Cord Injury
   - Andreane Richard-Denis

6. Closed Loop Electrical Stimulation Technologies to Modulate Autonomic Function After Spinal Cord Injury
   - Jordan Squair

7. 3D Printed Microneedle Array for Electronically Controlled Transdural Drug Release
   - Joyce Huang

8. Cardio-Centric Hemodynamic Management to Optimize Chronic Cardiovascular Function in High-Thoracic Spinal Cord Injury
   - Alexandra Williams

9. A Case Comparison of Endogenous Fat Metabolism During a Prandial Challenge
   - David McMillan

10. The Translational Potential of a Noninvasive Neuroprosthesis for Blood Pressure Control Following Spinal Cord Injury: Preclinical Evidence with a Case Report
    - Rahul Sachdeva

POSTER SESSIONS: Thursday, July 8, 9:30-10:15 am & Friday, July 9, 10:10-10:55 am

21. Modulating Inflammation after SCI Via Tailored Anti-Inflammatory Cytokine Delivery
    - Daniel Hellenbrand

    - Yagiz Yolcu

23. Does Prophylactic Medication Lower the Odds of Developing Heterotopic Ossification after Spinal Cord Injury?
    - Yagiz Yolcu

24. Noninvasive Chronic Spinal Stimulation as a Multi-Session Therapy to Improve Cardiovascular Function After Spinal Cord Injury
    - Kiran Pawar

25. Bell’s Cruciate Paralysis in Type II Odontoid Fracture: Case Report
    - Zainab Al lawati

26. Trait That Caused Quadriplegia: Rare Case of Sickle Cell Trait and Anterior Spinal Cord Infarction
    - Matthias Linke

27. Delay In SCI Care Among the US Immigrant Community
    - Matthias Linke

28. Medical Complications in the Rehabilitation Unit: Immune Checkpoint Inhibitor-Induced Myocarditis
    - Robert Pagan Rosado

29. Withdrawn

30. Withdrawn
POSTER SESSIONS: Thursday, July 8, 9:30-10:15 am & Friday, July 9, 10:10-10:55 am

31 Hemi-Hyperhidrosis: An Unusual Initial Presentation of Autonomic Dysreflexia – A Case Report ❖ James Wilson

32 Translational Use of a Musculoskeletal Ultrasound Research Tool to Clinically Demonstrate Multifocal Shoulder Tendon Enthesopathy in a Veteran with SCI and Ankylosing Spondylitis: A Case Report ❖ Ryan Thachen-Cary

33 COVID-19 3D-Printed Earguard Quality Improvement Initiative: Improving Facemask Comfort in a VA SCI Center ❖ Cesar Colasante

34 ARMEO Spring Upper Limb Exoskeleton Combined with Virtual Task of Drinking In Spinal Cord Injured Patients ❖ Monica Alcobendas

35 Identifying SCI Consumer and Clinician Priorities for Use of Robotic Exoskeletons ❖ Manon Schladen

36 Partial Medial Gastrocnemius Tear with Hematoma Due to Exoskeleton Assisted Walking Injury: Case Report ❖ Jonathan VandenBerg

37 The Axial Damage Ratio: A MRI Biomarker for Prognosis of Future Walking Ability ❖ Andrew Smith

38 Acquired Pneumonia After SCI Causes Chronic Functional Deficits in Translationally Relevant Rodent Model ❖ Angela Filous

39 Biomarkers of Spontaneous Recovery from Traumatic Spinal Cord Injury ❖ Ona Bloom

40 Epidural Hematoma Following Spinal Cord Stimulator Trial ❖ Chris Ha

41 Secondary Benefits in Non-Walking Functions of TSCS and Therapy for Patients with iSCI ❖ Rebecca Martin

42 Bone Response with Dried Plum Supplementation in Persons with SCI - Pilot findings ❖ Jenny Kiratli

43 Left Ventricular Twist in Individuals with Chronic, Motor-Complete, Cervical and Upper-Thoracic Spinal Cord Injury after Six Months of Exercise Training: A Randomized Clinical Trial ❖ Shone Balthazaar

44 The Impact of Different Examination Tools on The Interrater Reliability of ISNCSI’s (International Standards for Neurological Classification of Spinal Cord Injury) Pinprick Examination in Individuals with and without SCI ❖ Laura Heutehaus

45 Development of the The SCI Movement Index (SCI-MI) Item Pool ❖ MJ Mulcahey

46 Neuroplasticity Underlying Balance Recovery In Individuals with Incomplete Spinal Cord Injury: A Pilot Study ❖ Charlotte Pion

47 Serotonin Syndrome with Myoclonus in a Veteran with Spinal Cord Injury, Low Net Serotonin Load ❖ Kathlin Ramsdell, MD

48 Sex/Gender Matters: Life Satisfaction Trajectories after Spinal Cord Injury ❖ Yuying Chen

49 Sepsis in Cervical Spinal Cord Injury ❖ Deborah Crane

50 An Exploration of Support Needs of Family Caregivers of Individuals with SCI or Disease ❖ Gaya Jeyathevan

51 Psychosocial Impact in Individuals with New Onset SCI: Data from a Longitudinal Study ❖ Sara Frye

52 The Impact Pain Has on Quality of Life and Independence Following SCI ❖ Amanda Rounds

53 Comparison of Shoulder MRI Findings in Manual Wheelchair Users with SCI Across Years of Wheelchair Use ❖ Omid Jahanian

54 Factors Associated with Failure to Return Home Following Specialized Inpatient Rehabilitation in Traumatic Spinal Cord Injury ❖ Antoine Dionne

55 Structural Connectivity Analysis of the Brain in Patients with Chronic Spinal Cord Injury ❖ Mahdi Alizadeh

56 Guns Violence and Spinal Cord Injury: Contributions to the Public Health Epidemic and Suggestions for Prevention ❖ Stephanie Kolakowsky-Hayner

57 Prevalence, Incidence, Survival and Mortality of Traumatic SCI in Olmsted County, Minnesota, 1995-2017 ❖ Yagiz Yolcu

58 Mindfulness Program in Inpatient SCI Setting ❖ Sussan Askari

59 Overcoming In-Patient Dependence: Transitioning to Community Independence ❖ Julius Penning

60 Capsaicin 8% Patch for SCI Neuropathic Pain ❖ Madeline Dicks

61 Impact of Chronic Nociceptive and Neuropathic Pains on Activities, Mood, And Sleep in Those with Traumatic Spinal Cord Injury: A SCI Model Systems Pain Module Study ❖ Elizabeth Felix

62 Case Report: Heartbeat Variability Biofeedback Training for Chronic Pain Management in Two Individuals with SCI ❖ Sara Mulroy

63 Chronic Pain in Spinal Cord Injury: The Role of Gender, Depression, and Resilience ❖ Heather Taylor

64 Pain as a Predictor of Poor Sleep Over Time in Pediatric-Onset Spinal Cord Injury ❖ Alicia January

65 Qualitative Investigation of Health Information Resources for Caregivers and Individuals Living with Spinal Cord Injury ❖ Kacey Fergunson

66 Stroke Pattern Classification in Pediatric Manual Wheelchair Users with Spinal Cord Injury ❖ Paige Aschenbrner

67 Intrathecal Chemotherapy: A Case Report of a Rare Cause of Spinal Cord Toxicity in a Pediatric Patient ❖ Laura Prince

68 Walk Training with Lokomat Device in Adolescents with SCI ❖ Monica Alcobendas

69 Diffusion Tensor Imaging as a Biomarker to Identify Microstructural Changes in Pediatric Spinal Cord Injury ❖ Laura Krisa
POSTER SESSIONS: Thursday, July 8, 9:30-10:15 am & Friday, July 9, 10:10-10:55 am

70 Prevention of Hypoglycemia in NPO-Tube-Fed Patients During Transfer to Post-Acute Rehabilitation  Rebecca Boova
71 Caregivers of People with Cervical Spinal Cord Injury: Exploring the Lived Experiences Over Time  Rachel Heeb
72 Appraisals of Disability Predictive of Psychosocial/Medical Outcomes in Individuals with Pediatric-Onset Spinal Cord Injury  Kyle Deane
73 Exploring Why Individuals with and Caregivers of those with SCI Utilize Online Support Groups  Ali Weinstein
74 Management of Chronic Electrode Infections in Patients with Percutaneous Functional Electrical Stimulation Systems  Randal Betz
75 Feasibility and Impact of High Intensity Home Inspiratory Muscle Training in SCI  Anne Palermo
76 Comparison of One Year Post-Injury Outcomes Between Intensive Locomotor Training and Conventional Therapy After Motor Incomplete Spinal Cord Injury  Candy Tefertiller
77 Are Reflexes Useful in Differentiating LMN from UMN Injury in Persons with SCI?  Maria Grabnar
78 The Therapeutic Potential of Cannabis in People with Spinal Cord Injury: A Systematic Review  Emmanuel Tse
79 Interdisciplinary Approach to Locomotor Training in Pediatrics: Optimizing Principles in the Child’s Community  Courtney Mullen
80 Integration of Robotic Exoskeletons during Outpatient Physical Therapy  Allen Heinemann
81 Decreased Locomotor Dysfunction and Improved Spinal Cord Grey Matter Morphology Induced by Spirulina Platensis Following SCI in Rat Models  Dauda Abdullahi
82 Postprandial Effects of Protein Compared to Carbohydrate Meals on Core Body Temperature in Persons with Spinal Cord Injury  John Handrakis
83 Decreasing the Inflammatory Response After SCI via Tailored Anti-Inflammatory Cytokine Delivery  Danielle Cilien
84 Decreasing the Inflammatory Response after SCI via Tailored Anti-Inflammatory Cytokine Delivery  Daniel Hellenbrand
85 Withdrawn
86 Aquatic Restorative Therapy to Enhance Functional Mobility in Individuals with Spinal Cord Injury: A Case Series  Amanda Oakley
87 During an Epidemic of Gun Violence in the United States, Analyzing Cervical SCI from Gunshot Wounds with Respiratory Compromise: The Role of Diaphragm Pacing  Raymond Onders
88 There is a Role for Diaphragm Pacing for Respiratory Compromise in Non-Traumatic Spinal Cord Injured Patients  Raymond Onders
89 Characterizing Real-Time Ventilator Data Collected Among Individuals With SCI Undergoing IPV Treatment  Benjamin Dirlikov
90 Initiating a Research Partnership with the South Florida SCI Community to Address Hurricane Preparedness  David McMillan
91 Withdrawn
92 QI of Resident Assessment of Pressure Injuries: Patients with a SCI Hospitalized in Acute Rehabilitation  Matthias Linke
93 Modifications to Complete Decongestive Therapy in the Spinal Cord Population for Lymphedema Treatment  Quyen Catania
94 Peak Interface Pressures of the Skin Safe Spine Board  Elizabeth Twist
95 APCM Protocol for Surgery at the Ideal Time for Ideal Cases of Spinal Cord Injury  Ghulam Dastagir Faisal Mohammed
96 Serum and Urine NMR-Metabolomic Study in Acute SCI (ASCI): A Possible Recovery Pathfinder  Alka Singh
97 Role of Stem Cell Intervention on Quality of Life(QoL) in Acute Spinal Cord Injury (ASCI) Subjects  Alka Singh
98 An Innovative Cost-Effective Algorithm for Obtaining High Quality Stem Cells Bearing BM Concentrate  Sudeepti Ratan Srivastava
99 SCO-Spondin Derived Peptide Promotes Functional Recovery in a Mouse Model of Spinal Cord Injury  Sighild Lemarchant
100 Effect of Anticholinergic vs. Beta Agonist on Cognition in Persons with Neurogenic Bladders from SCI  Cory Osborne
101 The Comparative Effect of an Anticholinergic vs. a Beta Agonist on Cognition in Persons with SCI Requiring Treatment for Neurogenic Bladder  Michelle Trbovich
102 Urinary Symptoms Indicative of Urinary Tract Infection Differ by Type of Bladder Management  Amanda Rounds
103 Transcutaneous Neuromodulation of Spinal Cord to Restore Bladder and Bowel Function after Spinal Cord Injury  Parag Gad
104 Rates of Urinary Tract Infections in Acute SCI Patients with Neurogenic Bladder Managed with Intermittent Catheterization versus Indwelling Foley  Lavina Jethani
105 Development of a Free Online Course for Health Care Professionals Caring for Women with Spinal Cord Injuries and Similar Physical Disabilities  Karen Hodge
106 Heart Rate Changes Associated with Spontaneous Episodes of Autonomic Dysreflexia  Lauren Rietchel