



*Academy of
Neurologic Physical Therapy*

*American Physical Therapy
Association*

-- January 2019 --

SCI 2020: Launching a Decade for Disruption in Spinal Cord Injury Research



February 12-13, 2019

NIH Natcher Conference Center, Bethesda, MD

The purpose of this NIH-sponsored conference is to inform the SCI research agenda for the coming decade. Six primary sessions are organized with panels addressing preclinical and clinical evidence and opportunities.

Check out the meeting agenda [here!](#)

FREE registration is available [here](#) through Feb 4, 2019.

This meeting will be open and available on videocast for those unable to attend in person.

Consider Becoming an SCI SIG Officer!

Have you or someone you know been looking for ways to get involved or become more active within the profession and in the SCI community?

If so, you should consider running for one of the open SCI SIG positions!



For the 2019 election, the following SIG positions are open:

- **SIG Chair Elect** (*1 year term from 2019 to 2020 followed by a 3 year term as Chair from 2020 to 2023*)
- **SIG Vice Chair** (*3 year term from 2019 to 2022*)

- SIG Nominating Committee member (3 year term from 2019 to 2022)

You can find a description of the positions after logging in [here](#).

NOMINATE NOW!

Nominations are due **February 28!**

SCI SIG Research Review



Please see this month's
research articles below!

**CHECK
IT OUT!**

- Heinemann AW, Jayaraman A, Mummideisetty CK, Spraggins J, Pinto D, Charlifue S, Tefertiller C,... Field-Fote EC. [Experience of Robotic Exoskeleton Use at Four Spinal Cord Injury Model Systems Centers](#). *Journal of Neurologic Physical Therapy*. Oct 2018; 42(4): 256-267.
 - *Background and Purpose:* Refinement of robotic exoskeletons for overground walking is progressing rapidly. We describe clinicians' experiences, evaluations, and training strategies using robotic exoskeletons in spinal cord injury rehabilitation and wellness settings and describe clinicians' perceptions of exoskeleton benefits and risks and developments that would enhance utility.
- Abou L, Ribeiro de Freitas G, Palandi J, & Ilha J. [Clinical Instruments for Measuring Unsupported Sitting Balance in Subjects with Spinal Cord Injury: A Systematic Review](#). *Topics in Spinal Cord Injury Rehabilitation*. Jan 2018; 24(2): 177-193.
 - *Background:* Evidence of intervention effectiveness depends on, among other things, the use of a common set of valid and reliable measures that are responsive to change and reflect clinically important outcomes. *Objective:* To identify clinical assessment instruments with properties for measuring unsupported sitting balance in subjects with spinal cord injury (SCI).
- Wagner FB, Mignardot JB, Goff-Mignardot CGL, Demesmaeker R, Komi S, Capogrosso M, ... Courtine G. [Targeted Neurotechnology Restores Walking in Humans with Spinal Cord Injury](#). *Nature*. 2018; 563: 65-71.
 - *Abstract [excerpted]:* Spinal cord injury leads to severe locomotor deficits or even complete leg paralysis. Here we introduce targeted spinal cord stimulation neurotechnologies that enabled voluntary control of walking in individuals who had sustained a spinal cord injury more than four years ago and presented with permanent motor deficits or complete paralysis despite extensive rehabilitation.
- Formento E, Minassian K, Wagner F, Mignardot JB, Goff-Mignardot CGL, Rowald A, ... Courtine G. [Electrical Spinal Cord Stimulation Must Preserve Proprioception to Enable Locomotion in Humans with Spinal Cord Injury](#). *Nature Neuroscience*. 2018; 21: 1728-1741.

- *Abstract [excerpted]: Epidural electrical stimulation (EES) of the spinal cord restores locomotion in animal models of spinal cord injury but is less effective in humans. Here we hypothesized that this interspecies discrepancy is due to interference between EES and proprioceptive information in humans.*
- Phan P, Budhram B, Zhang Q, Rivers CS, Noonan VK, Plashkes T, Wai EK, ... Fallah N. **Highlighting Discrepancies in Walking Prediction Accuracy for Patients with Traumatic Spinal Cord Injury: an Evaluation of Validated Prediction Models Using a Canadian Multicenter Spinal Cord Injury Registry.** *The Spine Journal.* Sept 2018; 000: 1-8.
 - *Background Context: Models for predicting recovery in traumatic spinal cord injury (tSCI) patients have been developed to optimize care. Several models predicting tSCI recovery have been previously validated, yet recent findings question their accuracy, particularly in patients whose prognoses are the least predictable. PURPOSE: To compare independent ambulatory outcomes in AIS (ASIA [American Spinal Injury Association] Impairment Scale) A, B, C, and D patients, as well as in AIS B+C and AIS A+D patients by applying two existing logistic regression prediction models.*

If you have suggestions or interest in participating in this SCI Research Review, please contact us [here!](#)

Upcoming Conferences: 2019

APTA Combined Sections Meeting (CSM) 2019



Washington, DC
[Walter E. Washington Convention Center](#)



Join us on **Friday January 25** at the Marriott Marquis (901 Massachusetts Ave NW, Room Marquis Salon 6) for the

ANPT Business Meeting (6:30 - 6:45 pm)
ANPT Awards Ceremony (6:45 - 7:30 pm)
 and **Myelin Melter** (7:30 - 8:45 pm)!

ANPT SIG Breakfasts

will be held

Saturday January 26 from 6:45 - 7:45 am in the Convention Center, Room 145 AB.

Come join us for a complimentary breakfast, SIG presentations, and door prizes!



Education Courses

- These are just some of the 23 educational sessions sponsored by the ANPT that will be presented at this year's conference:
 - **Implementing a Core Set of Outcome Measures for Adults with Neurologic Conditions.** Elizabeth Anderl, PT, DPT, et al. Thursday Jan 24, 8:00 - 10:00 am, Walter E Washington Convention Center Room 145A
 - **Anne Shumway-Cook Lectureship: A Journey Through Time.** Margaret Schenkman, PT, PhD, FAPTA. Thursday Jan 24, 8:00 - 10:00 am, Walter E Washington Convention Center Room 152A
 - **Optimizing Variability for Treatment.** Amy Bastian PhD, Jennifer Keller PT, MS. Thursday Jan 24, 11:00 am - 1:00 pm, Walter E Washington Convention Center Room 152A.
 - **SCI and Neuroplasticity.** D. Michele Basso, Ed.D., PT. Friday Jan 25, 8:00 - 10:00 am, Walter E Washington Convention Center, Ballroom C.
 - **Fake News: Error, Ethics, and Evidence in Publication of Research.** Ryan Duncan, PT, DPT, Edelle Field-Fote, PT, PhD, FAPTA, et al. Friday Jan 25, 8:00 - 10:00 am, Walter E Washington Convention Center, Room 152A.
 - **Why We Love AND Hate Our Robots: Implications for Everyday Clinical Practice.** Julius Dewald PT, PhD, et al. Friday Jan 25, 3:00 - 5:00 pm, Walter E Washington Convention Center, Ballroom C.
- Check out the [CSM Conference Website](#) for more information!

ASIA SCI Summit 2019 *Annual Scientific Meeting*

April 2-5, 2019 - Waikiki, Hawaii ([Hilton Hawaiian Village](#))

- Registration will be opening soon!
- Take advantage of group hotel rates now by clicking [here](#) or mentioning the ASIA group code "AEC" at the time of booking.
- Check out the [ASIA Meeting Website](#) for more information!



Rehab Week 2019

June 24 - 28, 2019 - Toronto, Canada ([Metro Toronto Convention Centre](#))

- For more information, visit the Rehab Week [website!](#)



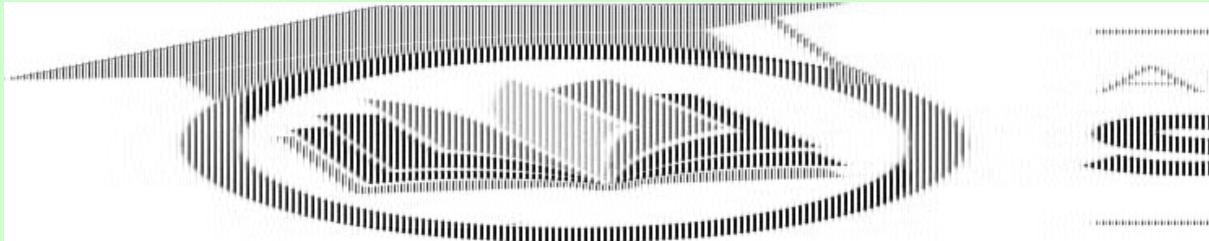
Paralyzed Veterans of America (PVA) 2019 *Annual Summit*

August 15 - 17, 2019 - Orlando, FL ([Renaissance Orlando at SeaWorld Hotel](#))

- [Click here](#) to register!
- Review the program [here](#)!
- Check out the PVA Annual Summit [website](#) for more information!

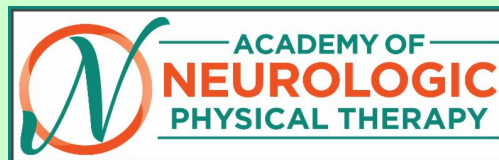


ANPT Synapse Center



The ANPT is looking for **NEW** educational submissions to the Synapse Center! Click the link above to visit the Synapse Center or to submit your proposal!

Visit the ANPT online!



Thank you!

ANPT SCI SIG Officers

Rachel Tappan, PT, DPT, NCS, Chair

Meghan Joyce, PT, DPT, NCS, Vice-Chair

Casey Kandilakis, PT, DPT, NCS, Secretary

Cathy Larson, PT, PhD, Nominating Committee Chair

Christi Hutchison, PT, MPT, NCS, Nominating Committee

Sara Hobbs, PT, DPT, NCS, Nominating Committee