SPINAL CORD INJURY

Special Interest Group

Academy of Neurologic Physical Therapy (ANPT)
American Physical Therapy Association (APTA)

-- November 2019 --

SCI SIG Award Winner!

Congratulations to our SCI SIG Award of Clincial Excellence Winner

Kristen Cezat, PT, DPT, ATP/SMS!

Kristen serves as a Clinical Specialist in SCI at Orlando Health Rehabilitation Institute, providing both patient care and assisting with SCI program development. She also because a Board Certified Clinical Specialist in Neurologic Physical Therapy in 2019.

Come meet and celebrate Kristen with us at CSM 2020!

Thank you to everyone who submitted nominations for this award!

Interested in Getting More Involved?

The SCI SIG has a Nominating Committee Membership position opening up in 2020!

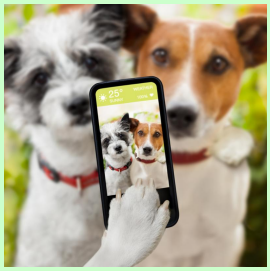
For more information about the position, eligibility requirements, or the nomination form, click here! (You must log in to see this page).

Nominations will be due in April 2020.

Call for Photos

We want to highlight all of the great things the SCI SIG is doing,

and **we need your help!**



We are collecting pictures from our members to post on our Social Media Accounts and website. If you have some fun and interesting photos and are willing to share, please contact the SCI SIG Social Media Coordinator Kathryn McLeland.

Include the names of anyone in the picture,
and a 1-sentence caption!

SCI SIG Research Review

Please see this month's research articles below!

- Sengupta, M., Gupta, A., Khanna, M., Krishnan, U. K. R., & Chakrabarti, D. (October 04, 2019). Role of Virtual Reality in Balance Training in Patients with Spinal Cord Injury: A Prospective Comparative Pre-Post Study. Asian Spine Journal.
    - PURPOSE: To evaluate the effects of game-based virtual reality (VR) training program for trunk postural control and balance in patients with spinal cord injury (SCI) and to assess the results according to the motor completeness (severity) of lesions using the American Spinal Injury Association Impairment Scale (AIS).

- Hofer, A. S., & Schwab, M. E. (September 24, 2019). Enhancing rehabilitation and functional recovery after brain and spinal cord trauma with electrical neuromodulation. Current Opinion in Neurology.
    - PURPOSE: This review discusses recent advances in the rehabilitation of motor deficits after traumatic brain injury (TBI) and spinal cord injury (SCI) using neuromodulatory techniques.

- McIntosh, K., Charbonneau, R., Bensaada, Y., Bhatiya, U., & Ho, C. (September 27, 2019). The safety and feasibility of exoskeletal assisted walking in acute rehabilitation following spinal cord injury. Archives of Physical Medicine and Rehabilitation.
    - OBJECTIVES: To: assess safety and feasibility for persons with acute spinal cord injury (SCI) using the robotic exoskeleton.

- Benabid, A. L., Costecalde, T., Eliseyev, A., Charvet, G., Verney, A., Karakas, S.,

Foerster, M, et al. (October 03, 2019). An exoskeleton controlled by an epidural wireless brain-machine interface in a tetraplegic patient: a proof-of-concept demonstration. The Lancet. Neurology.

- BACKGROUND: Approximately 20% of traumatic cervical spinal cord injuries result in tetraplegia. Neuroprosthetics are being developed to manage this condition and thus improve the lives of patients. We aimed to test the feasibility of a semi-invasive technique that uses brain signals to drive an exoskeleton.

- SCI-HIGH Project Publications: Journal of Spinal Cord Medicine, Volume 42, October 2019. *(Articles from this journal are generally available in PMC after a 12-month delay (embargo).*

  - Various publications including:

    1. The standing and walking assessment tool for individuals with spinal cord injury: A qualitative study of validity and clinical use
    2. Development of Walking indicators to advance the quality of spinal cord injury rehabilitation: SCI-High Project
    3. Development of Wheeled Mobility indicators to advance the quality of spinal cord injury rehabilitation: SCI-High Project
    4. Quantifying balance control after spinal cord injury: Reliability and validity of the mini-BESTest
    5. The use of aquatic therapy among rehabilitation professionals for individuals with spinal cord injury or disorder
    6. Development of Cardiometabolic Health indicators to advance the quality of spinal cord injury rehabilitation: SCI-High Project
    7. Lessons learned from the pilot study of an orthostatic hypotension intervention in the subacute phase following spinal cord injury

If you have suggestions or interest in participating in this SCI Research Review, please contact us here!

Upcoming Conferences: 2020

APTA Combined Sections Meeting (CSM) 2020

February 12 - 15, 2020 - Denver, CO

- Discounted registration ends December 18! Register here!
- See what all Denver has to offer here!
- Click here if you haven't already booked housing!
- Click for more information!

Here's a preview of just some of the exciting SCI content that will be presented at CSM 2020!

- A Bit of a Stretch: The Lived Experience of Spasticity After SCI and Promising Interventions. Thursday Feb 13, 2020, 8 - 10:00 am
- ANPT Platform 1: SCI/General Neurologic Practice. Thursday Feb 13, 2020, 3 - 5:00 pm
- Neuromodulation in Combination with Task-Specific Training to Improve Outcomes

after SCI. Friday Feb 14, 2020, 11:00 am - 1:00 pm

American Spinal Injury Association (ASIA) 2020 *Annual Scientific Meeting*

May 3-6, 2020 - New Orleans, LA (New Orleans Marriott)

- Discounted room rates are available here until April 17, 2020 or until the room block fills! Book your room today!
- Click here for more information!

Academy of SCI Professionals (ASCIP) 2020

September 6 - 9, 2020 - Chicago, IL

- More information to come!
- Check here for updates and registration information when it becomes available!

Visit the ANPT online!

ACADEMY OF NEUROLOGIC PHYSICAL THERAPY

Thank you!

ANPT SCI SIG Officers

Rachel Tappan, PT, DPT, Chair
Cathy Larson, PT, PhD, Vice-Chair
Casey Kandilakis, PT, DPT, Chair-Elect, Secretary
Christi Hutchison, PT, MPT, Nominating Committee
Sara Hobbs, PT, DPT, Nominating Committee
Andrea Stump, PT, DPT, ATP, Nominating Committee

Kathryn McLeland, SPT, Social Media Coordinator