



SPINAL CORD INJURY SPECIAL INTEREST GROUP

Academy of Neurologic Physical Therapy

NEWSLETTER

In this newsletter...

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SPINAL CORD INJURY SIG SERVICE AWARD



Congratulations!

**RACHEL TAPPAN, PT,
DPT**

**SPINAL CORD INJURY
SIG SERVICE AWARD
WINNER!**

SCI SIG POSTER AWARD WINNERS

CONGRATULATIONS!
Winners!

Psychometric Properties of Four Square Step Test in Spinal

Cord Injuries

Jennifer Hilb Kahn, Michael Patrick Carey, Kadi Hamer, Madison Hanson, Katherine Kotche, Kylee Mosehart, Kelly O'Neill, Keith E Gordon

Sustained Maximal Inspiratory Pressure is More Strongly Associated with Pulmonary Function than MIP Post-SCI

Abigail Grace Young, SPT, Emily Anne Janyszek, SPT, Allison Elizabeth Villane, SPT, Anne E. Palermo, PT, DPT, Lawrence P. Cahalin, PT, PhD and Mark S Nash

SCI SIG MEMBERSHIP SURVEY

PLEASE TAKE A MOMENT TO FILL OUT
OUR SCI SIG MEMBERSHIP SURVEY

<https://forms.gle/XRKUJigEkRy6stUPA>



SCI SIG NOMINATIONS

TIMELINE:

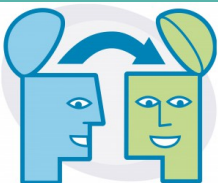
- Nominations are due **March 29, 2021**.
- Elections will be held April 5 - May 5, 2021
- Three year term begins July 1, 2021

IMPORTANT INFORMATION:

- There is no longer a requirement for individuals to be an ANPT member for 2 years!
- Membership requirements- member in good standing with a grace period of up to 3 months for any lapses in membership
- Website with position information (do not need to be logged in to view): <https://neuropt.org/join/volunteer-with-the-section/election-information>
- Nomination form: <https://neuropt.org/members/nomination> (remember must be logged on to access this page)



SCI EXPERIENCED CLINICIAN LIST



PLEASE CONTACT US IF YOU WOULD
LIKE YOUR NAME/CONTACT INFO
ADDED TO THE LIST

[Visit List](#)

SCI SIG RESEARCH IN REVIEW



PLEASE SEE THIS MONTH'S
RESEARCH ARTICLES BELOW



- De Miguel-Rubio A., Alba-Rueda A., Dolores Rubio M., Salazar A., Salazar A., Moral-Munoz J.A. (December 01, 2020). [Virtual reality systems for upper limb motor function recovery in patients with spinal cord injury: Systematic review and meta-analysis](#). Jmir Mhealth and Uhealth, 8, 12.)

OBJECTIVE: A systematic review and meta-analysis was conducted to evaluate the effectiveness of VR on ULMF in patients with SCI compared with conventional physical therapy.

- Galea, M. D., Gelman, M. A., Galea, V. P., Raulkar, K. P., Kornfeld, S., Johnson-Kunjukutty, S., Li, G., Bräu, N. (January 19, 2021). [COVID-19 in spinal cord injury patients at a veterans administration hospital: A case series](#). The Journal of Spinal Cord Medicine, 1-13.

OBJECTIVE: To describe the clinical features and disease course of COVID-19 in veterans with spinal cord injury (SCI).

- Hicks, A. L. (January 01, 2021). [Locomotor training in people with spinal cord injury: is this exercise?](#). Spinal Cord, 59, 1, 9-16.

ABSTRACT EXCERPT: This narrative review will summarize the key literature in this area to determine whether locomotor training challenges the cardiovascular, muscular or metabolic systems enough to be considered a viable form of exercise.

- Inanici, F., Brighton, L. N., Samejima, S., Hofstetter, C. P., & Moritz, C. T. (January 01, 2021). [Transcutaneous spinal cord stimulation restores hand and arm function after spinal cord injury](#). IEEE Transactions on Neural Systems and Rehabilitation Engineering.

ABSTRACT EXCERPT: Spinal cord stimulation is an emerging neuromodulation strategy to restore motor function. Recent studies using surgically implanted electrodes demonstrate impressive improvements in voluntary control of standing and stepping. Here we show that transcutaneous electrical stimulation of the spinal cord leads to rapid and sustained recovery of hand and arm function, even after complete paralysis.

- Lotter, J. K., Henderson, C. E., Plawecki, A., Holthus, M. E., Lucas, E. H.,

Ardestani, M. M., Schmit, B. D., Hornby, T. G. (June 01, 2020). [Task-Specific Versus Impairment-Based Training on Locomotor Performance in Individuals With Chronic Spinal Cord Injury: A Randomized Crossover Study](#). Neurorehabilitation and Neural Repair.

OBJECTIVE: The purpose of this blinded-assessor randomized trial was to evaluate the effects of task-specific versus impairment-based interventions on walking outcomes in individuals with iSCI.

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- Rosner, J., Lütolf, R., Hostettler, P., Villiger, M., Clijsen, R., Hohenauer, E., Barbero, M., Curt, A., Hubli, M. (February 16, 2021). [Assessment of neuropathic pain after spinal cord injury using quantitative pain drawings](#). Spinal Cord.

OBJECTIVE: To assess the reliability of standardized quantitative pain drawings in patients with NP following SCI.

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- Tan, A. Q., Sohn, W. J., Naidu, A., & Trumbower, R. D. (February 01, 2021). [Daily acute intermittent hypoxia combined with walking practice enhances walking performance but not intralimb motor coordination in persons with chronic incomplete spinal cord injury](#). Experimental Neurology, 113669.

ABSTRACT EXCERPT: Recent studies in humans with SCI found that daily bouts of breathing low oxygen (acute intermittent hypoxia, AIH) prior to locomotor training elicited persistent (weeks) improvement in overground walking speed and endurance. AIH-induced improvements in overground walking may result from changes in control strategies that also enhance intralimb coordination; however, this possibility remains untested. Here, we examined the extent to which daily AIH combined with walking practice (AIH + WALK) improved overground walking performance and intralimb motor coordination in persons with chronic, incomplete SCI.

New Discussions in Spinal Cord Injury Science (DiSCIS) Podcast

Spinal Cord Injury SIG: Interview with Kristin Musselman about Reactive Balance – Episode 8



POSTED BY ADMIN JANUARY 12, 2021

LEAVE A COMMENT ON SPINAL CORD INJURY SIG: INTERVIEW WITH KRISTIN MUSSELMAN ABOUT REACTIVE BALANCE – EPISODE 8

In this episode, we talk to Kristin Musselman, BSc, BscPT, MSc, PhD about reactive balance after SCI and the results of the recent paper: Chan K, Lee JW, Unger J, Yoo

J, Masani K, Musselman K. Reactive stepping after a forward fall in people living with incomplete spinal cord injury or disease. Spinal Cord. 2020;58:185-193. The Spinal Cord Injury Special Interest Group is part of the Academy of Neurologic Physical Therapy – www.neuropt.org

Podcast: [Play in new window](#) | [Download](#) (Duration: 24:17 – 55.6MB)

Subscribe: [Google Podcasts](#) | [RSS](#)

*Acknowledgements: The SCI SIG thanks Rachel Tappan, PT, DPT for all of her hard work on podcast development.

NEW HEALTH PROMOTION AND WELLNESS RESOURCES

NEW Health Promotion and Wellness Resources!

Lifelong physical activity and exercise is a hallmark of a healthy lifestyle, especially for those living with neurological conditions. Have you ever asked yourself, how can I help bridge that gap?

The Health Promotion & Wellness Committee is excited to introduce *Bridging the Gap between PT and Lifelong Physical Activity and Exercise in People with Neurological Conditions: A toolkit for PTs & PTAs*. (A special thank you to the SCI SIG for the original Bridging the Gap Document for SCI and graciously allowing us to adapt it to a larger neuro audience!!) This **toolkit** will help your client take those important next steps from physical therapy to developing habits of lifelong physical activity and exercise. Clinicians and Clients will have access to many resources that can help them implement these steps into their life. Some resources include:

- Values, goals and action planning worksheets (a must-see to help your client identify and set healthy behavior goals!)
- A client handout for questions to ask facilities to ensure they are accessible and a good fit.
- An awesome resource list of articles and websites for you as a clinician, which highlight general exercise prescription, patient advocacy organizations, and health and wellness – all broken down for diagnoses such as MS, PD, TBI, SCI, CVA, HD and ALS. (We did the work for you!)

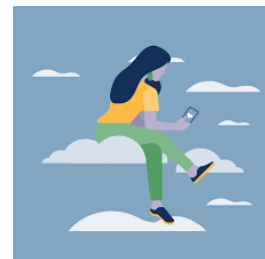
Help your clients with neurological disorders get connected to **lifelong health and wellness**. Come check out the full toolkit [here](#).

What's new?

- Bridging the Gap between PT and Lifelong Physical Activity and Exercise in People with Neurological Conditions: A toolkit for PT & PTAs
- Learn more about target audience and tips for toolkit use

[Click to learn more >](#)

NEW SCI SIG INSTAGRAM PAGE



Just Click The
Icon To Visit
Our Page

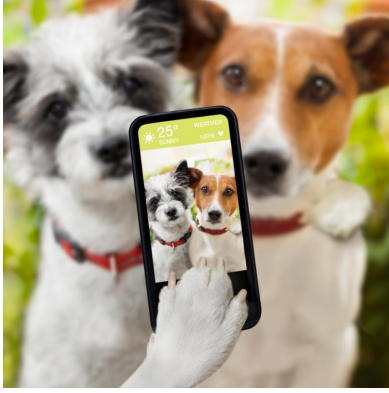
Thank You
Jane Mongkolvipakul, PT, DPT Social
Media Coordinator

INTERESTED IN GETTING INVOLVED?

SUBMIT A PHOTO!

We are collecting pictures to post to our Social Media Accounts and website.

Send your pictures, including the names of anyone in the picture and a 1-sentence caption, to our SCI SIG Social Media Coordinator **Kathryn McLeland**.



CSM 2021

COMBINED SECTIONS MEETING 2021

APTA Combined
Sections Meeting
Feb. 1-28, 2021



**CSM 2021 PROGRAMMING IS STILL AVAILABLE
THROUGH MARCH 31, 2021**

CLICK BELOW TO ACCESS



GOT CEUs?

UPCOMING CONFERENCES

ACADEMY OF NEUROLOGIC PHYSICAL THERAPY
VIRTUAL CONFERENCE 2021
SEPT-NOV ON-DEMAND | OCTOBER 1-3 LIVE CONTENT

CONFERENCE DESCRIPTION

The Academy of Neurologic Physical Therapy (ANPT) is excited to host its 1st Annual Conference in 2021! On-demand content will be available September 8 with the virtual “live” conference October 1-3 followed by more content offerings through November 22.

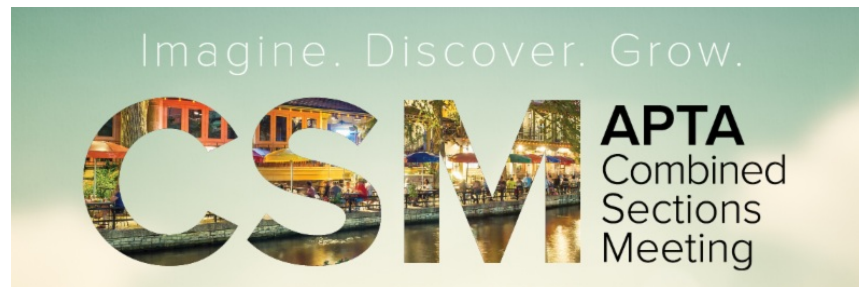
As a leading innovator in neurologic physical therapy, the ANPT conference

will focus on **examining recommendations and research evidence, exploring examples of successful efforts in knowledge translation** as well as offering opportunities for meaningful engagement and collaborations among participants.

Late June: Attendee Registration Will Open

CONFERENCE WEBSITE

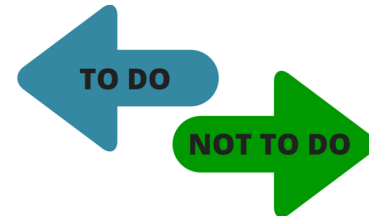
CSM 2022



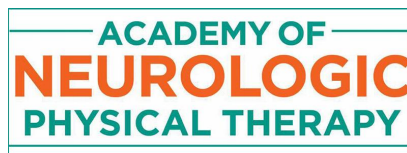
CSM 2022 Submissions

<https://www.apta.org/csm/programming/csm-submissions>

- Session Proposals Due April 5th
- Platform / Poster Proposals Due July 19th



VISIT THE SCI SIG ONLINE!



ANPT SCI SIG Officers

Casey Kandilakis, PT, DPT, Chair

Cathy Larson, PT, PhD, Vice-Chair

Christi Hutchison, PT, MPT, Secretary

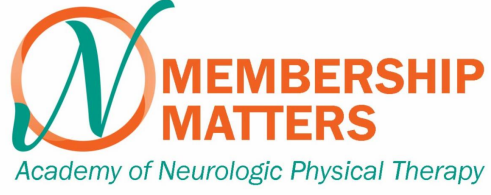
Sara Hobbs, PT, DPT, Nominating Committee Chair

Andrea Stump, PT, DPT, ATP, Nominating Committee

Andrew Smith, PT, DPT, PhD, Nominating Committee

Kathryn McLeland, PT, DPT, Lead Social Media Coordinator

Jane Mongkolvipakul, PT, DPT, Social Media Coordinator



Academy of Neurologic Physical Therapy
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ANPT Social Media

