



*Academy of Neurologic Physical Therapy
American Physical Therapy Association*

November 2018

SCI SIG Award for Clinical Excellence



Congratulations to
Elizabeth "Liz" Watson, PT, DPT, NCS
the recipient of the
SCI Clinical Excellence Award!

Liz is the Locomotor Training Clinic Manager at Magee Rehabilitation - Jefferson Health in Philadelphia, PA, and is a mentor for their Neurologic PT Residency Program. She developed the "[Gaining Ground](#)" program at Magee, a 6 week wellness "boot camp" for individuals with SCI/D once their primary therapies have been exhausted, and continues to serve as its primary clinician.

Thank you to all who submitted nominations or were nominated!

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)

NOMINATE NOW!

SCI SIG Research Review

Please see this month's articles below!

- Sacheva R, Gao F, Chan CCH, Kassioukov AV. [Cognitive Function After Spinal Cord Injury: A Systematic Review](#). *Neurology*. Sept 2018; 91(13): 611-621.
 - *Objective: To systematically examine the incidence of cognitive impairment in individuals with spinal cord injury (SCI), as well as identify potential contributing and confounding factors.*
- Angeli CA, Boakye M, Morton RA, Vogt J, Benton K, Chen Y, et al. [Recovery of Over-Ground Walking after Chronic Motor Complete Spinal Cord Injury](#). *N Engl J Med*. Sept 2018; 379(13): 1244-1250.
 - *Summary: Persons with motor complete spinal cord injury, signifying no voluntary movement or sphincter function below the level of injury but including retention of some sensation, do not recover independent walking. We tested intense locomotor treadmill training with weight support and simultaneous spinal cord epidural stimulation in four patients 2.5 to 3.3 years after traumatic spinal injury and after failure to improve with locomotor training alone. Two patients, one with damage to the mid-cervical region and one with damage to the high-thoracic region, achieved over-ground walking (not on a treadmill) after 278 sessions of epidural stimulation and gait training over a period of 85 weeks and 81 sessions over a period of 15 weeks, respectively, and all four achieved independent standing and trunk stability. One patient had a hip fracture during training.*
- Jung HY, Lee J, Shin HI. [The Natural Course of Passive Tenodesis Grip in Individuals with Spinal Cord Injury with Preserved Wrist Extension Power but Paralyzed Fingers and Thumbs](#). *Spinal Cord*. Sept 2018; 56(9): 900-906.
 - *Objectives: To investigate the natural course of passive tenodesis grip in individuals with spinal cord injury (SCI) with no experience of tenodesis splint application and the related factors for success of the grip.*
- Hayes SC, James Wilcox CR, Forbes White HS, Vanicek N. [The Effects of Robot Assisted Gait Training on Temporal-Spatial Characteristics of People with Spinal Cord Injuries: A Systematic Review](#). *J Spinal Cord Med*. Sept 2018; 41(5): 529-543.
 - *Obejective: To systematically review the literature and identify if overground or treadmill based RAGT use in SCI individuals elicited differences in temporal-spatial characteristics and functional outcome measures.*
- O'Dell DR, Weber KA, Berliner JC, Elliott JM, Connor JR, Cummins DP, et al. [Midsagittal Tissue Bridges are Associated with Walking Ability in Incomplete Spinal Cord Injury: A Magnetic Resonance Imaging Case Series](#). *J Spinal Cord Med*. Oct 2018; 1-4. [Epub ahead of print].
 - *CONTEXT: Following spinal cord injury (SCI), early prediction of future walking ability is difficult, due to factors such as spinal shock, sedation, impending surgery, and secondary long bone fracture. Accurate, objective biomarkers used in the acute stage of SCI would inform individualized patient management and enhance both patient/family expectations and treatment outcomes. Using magnetic resonance imaging (MRI) and specifically a midsagittal T2-weighted image, the amount of tissue bridging (measured as spared spinal cord tissue) shows potential to serve as such a biomarker. Ten participants with incomplete SCI received MRI of the spinal cord. Using the midsagittal T2-weighted image, anterior and posterior tissue bridges were calculated as the distance from cerebrospinal fluid to the damage. Then, the*

midsagittal tissue bridge ratio was calculated as the sum of anterior and posterior tissue bridges divided by the spinal cord diameter. Each participant also performed a 6-minute walk test, where the total distance walked was measured within six minutes.

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

Upcoming Conferences: 2019

Paralyzed Veterans of America (PVA) Annual Convention at MariTrends 2019 *Your Link to the Future*

- January 17 - 20, 2019 - New Orleans, LA ([Hyatt Regency](#))
- [Click here](#) for registration! Register by **December 29, 2018** to take advantage of discounted rates!
- Check out the [PVA Annual Convention Website](#) for more information!



APTA Combined Sections Meeting (CSM) 2019



- January 23 - 26, 2019 - Washington, DC ([Walter E. Washington Convention Center](#))
- [Click here](#) for registration! Advance Registration rates end **December 5, 2018!**
- [Book your hotel reservations](#) by **January 2, 2019** to take advantage of special CSM rates! Space is limited, so book early!
- ANPT is offering a NEW member benefit! If you choose to travel with Delta between January 20 - 27, 2019, you are eligible to receive up to a **10% discount** on your flight by using the meeting event code **NMRFV**.
 - Go to [delta.com](#)
 - Click "Book a Flight"
 - Click on "Advanced Search" under the "Find Flights" button
 - Enter the code NMRFV in the "Meeting Event Code" field
- These are just some of the educational sessions 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!](#)

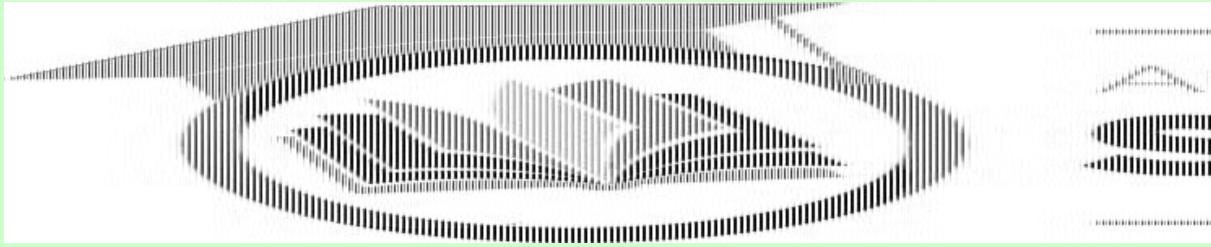


Paralyzed Veterans of America (PVA) 2019 *Annual Summit*

August 14 - 17, 2019

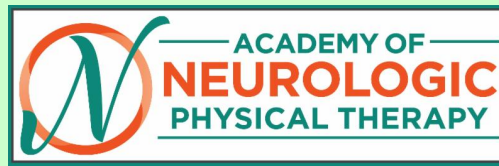
More details to come! Check out the PVA Annual Summit [website!](#)

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

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Christi Hutchison, PT, MPT, NCS, Nominating Committee

Sara Hobbs, PT, DPT, NCS, Nominating Committee