

June 6th, 2022



STROKE SPECIAL INTEREST GROUP

Academy of Neurologic Physical Therapy

In this newsletter...

- Student Corner Video Series: OPTIMAL Theory of Motor Learning #2
- Nominate someone for an ANPT Award (including SIG awards)
- Stroke SIG NPTE/NCS Test Prep Questions: **Question 1 review and video rationale now posted!**

Student Corner Video Series: OPTIMAL Theory Of Motor Learning Discussions

In a two-part video series, Dr. Wendy Romney and DPT student Mary Claire Hemmer discuss the OPTIMAL theory of motor learning (OPTIMAL: **O**ptimizing **P**erformance **T**hrough **I**ntrinsic **M**otivation and **A**ttention for **L**earning).

In [video 2](#), Dr. Romney and Ms. Hemmer discuss a case-example of applying OPTIMAL theory in clinical practice for an individual post-stroke.

Thank you to Dr. Romney and Mary Claire for this excellent clinical resource!

A screenshot of a YouTube video player. The video title is "External Focus". The video content shows a person's legs on a treadmill in a clinical setting. A large white play button is overlaid in the center of the video. The video player interface includes a progress bar at the bottom showing 0:05 / 0:06, a volume icon, a settings gear, and the YouTube logo. In the top right corner of the video player, there is a small video thumbnail of Mary Claire Hemmer with her name below it.

Nominate Someone for an Academy of Neurologic PT Award!



[Nomination Link](#)

The Academy of Neurologic Physical Therapy Awards Committee is seeking individuals to be nominated for the 2023 ANPT Awards. This year there are ten individual awards all with nomination deadlines of [August 1, 2022](#).

AWARD DESCRIPTIONS

SIG Awards

SIG Service Award

Purpose: To acknowledge a member of a particular SIG who goes above and beyond through volunteer contributions to the SIG and its efforts.

SIG Research Award

Purpose: To recognize a member of a particular SIG who has demonstrate exemplary contributions to the body of research representative of the population the SIG serves.

Academy Awards

Service to the Academy Award

Purpose: To acknowledge and honor a member of the Academy of Neurologic Physical Therapy whose contributions to the Academy have been of exceptional value.

Excellence in Neurologic Research Award

Purpose: To acknowledge and honor a member of the Academy of Neurologic Physical Therapy who has demonstrated continuing excellence in research related to neurologic physical therapy science, theory, practice, or education.

Excellence in Neurologic Education Award

Purpose: To acknowledge and honor a member of the Academy of Neurologic Physical Therapy who is a gifted and creative educator. The awardee spends a majority of their time in an academic setting but continues to treat patients and develop strategies for intervention that directly affect patient care.

PT Clinical Excellence in Neurologic Physical Therapy Award

Purpose: To acknowledge and honor a physical therapist member of the Academy of Neurologic Physical Therapy whose major professional involvement and contributions are currently with the practice of neurologic physical therapy.

PTA Clinical Excellence in Neurologic Physical Therapy Award

Purpose: To acknowledge and honor a physical therapist assistant who is a member of the Academy of Neurologic Physical Therapy whose major professional involvement and contributions are currently with the practice of neurologic physical therapy.

Outstanding Clinical Innovator in Neurologic Physical Therapy Award

Purpose: To acknowledge and honor a member of the Academy of Neurologic Physical Therapy who translated recent evidence or emerging practice/business strategies into a program, initiative, or service to benefit patients/clients with neurologic impairment. The awardee should be individuals who led or co-led the implementation of this innovation and participated in monitoring its outcomes to measure its impact as well as success on the greater physical therapy community.

Outstanding Advocacy in Neurologic Physical Therapy Award

Purpose: To acknowledge and honor a member of the Academy of Neurologic Physical Therapy who is an advocate for the neurologic physical therapy profession and/or neurologic populations.

Early Career Professional Award

Purpose: To support new professionals who are members of the APTA Academy of Neurologic Physical Therapy and show potential to make lasting contributions to the Academy of Neurologic Physical Therapy, by providing them financial assistance to attend CSM.

CSM Abstract: Early Career Scientist Award – After submitting your abstract through the CSM portal complete the form on the application page to be considered for this award.

Please take the time to nominate a deserving colleague! For more information and nomination forms [click here](#).

Prepping for the NPTE or NCS? Check out our Stroke Test Prep Questions - Answer #1 Video Now Posted!



STROKE SIG
STUDENT INFO

Academy of Neurologic Physical Therapy

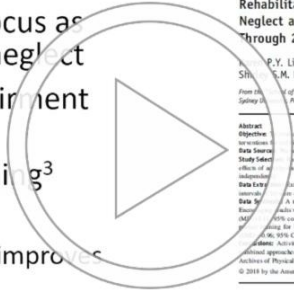
The [Stroke SIG Student Corner](#) team is putting together a series of test questions to help future takers of the National Physical Therapy Examination (NPTE) and Neurologic Clinical Specialist exam.

Test your stroke knowledge by visiting the [Stroke Corner website](#) (questions are at the bottom). New questions are posted around the first of the month.

This month's answer review video is now posted! Dr. Michelle Sawtelle reviews the evidence-based rationale behind the correct answer for the homonymous hemianopsia question.

Article 1²

- Visual pathway damage²
- Similar rehabilitation focus as with unilateral spatial neglect
- Activity-based vs. Impairment reduction
- Benefits of visual scanning³
- Outcomes:
 - Activity-based training improves visual outcomes & ADL performance
 - Non-activity-based training improves ADL performance



Archives of Physical Medicine and Rehabilitation
period. homepage: www.aphm.org
Archives of Physical Medicine and Rehabilitation 2019;100(9):79

REVIEW ARTICLE (META-ANALYSIS)

A Systematic Review and Meta-Analysis of Rehabilitative Interventions for Unilateral Spatial Neglect and Hemianopia Poststroke From 2006 Through 2016

Shih-Ping Y. Liu, PhD,^{1,2} Jessica Hanly, MOT,³ Paul Fahey, MMedStat,^{4,5} M. M. Fong, PhD,⁶ Rosalind Bye, PhD⁷

From the ¹School of Science and Health, Western Sydney University, Parrish, Australia; ²Neurological Health Research Institute, Western Sydney University, Parrish, Australia; and ³School of Public Health, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Hong Kong.

Objective: To determine the effectiveness of activity-based, nonactivity-based, and combined activity- and nonactivity-based rehabilitative interventions for unilateral spatial neglect (USN) and hemianopia.

Design: Systematic review and meta-analysis.

Setting: CINAHL, Cochrane Library, EMBASE, MEDLINE, and PubMed from 2006 to 2016.

Study Design: Randomized controlled trials (RCTs) with a total of 1069 participants in the Physiotherapy Evidence Database. Studies that examined the effects of activity-based and nonactivity-based rehabilitative interventions for people with USN or hemianopia. Two reviewers selected studies for inclusion.

Results: Data from the published RCTs. Mean difference (MD) or standardized mean difference (SMD), and 95% confidence intervals (CIs) were calculated. Heterogeneity was assessed using the I^2 statistic.

Conclusion: A total of 10 RCTs for USN and 5 for hemianopia, involving 294 and 206 stroke participants respectively, were identified. Evidence was based on random-effects meta-analysis for visual scanning training and compensatory training for hemianopia (USN: SMD = -0.40, 95% CI, -0.63 to -0.17; $P = .002$; $I^2 = 23.8%$ on visual outcomes), and significant outcomes and results were not found for USN (SMD = -0.04, 95% CI, -0.19 to 0.11; $P = .262$; $I^2 = 89.3%$) or functional performance in activities of daily living (USN: SMD = 0.03, 95% CI, -0.12 to 0.18; $P = .342$; $I^2 = 92.7%$) or walking.

Limitation: Activity-based interventions are effective and commonly used in the treatment of USN and hemianopia. Nonactivity-based and combined approaches for both impairments have not been defined, because more studies are required for substantial conclusions to be drawn.

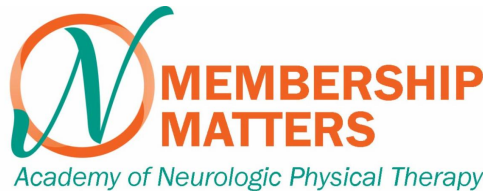
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Unilateral spatial neglect (USN) and hemianopia are debilitating impairments for people poststroke or brain injury, occurring in up to 52% and between 25% and 70% of cases respectively.¹ USN is a deficit of attention and is described as the inability to report, respond, or attend to sensory or visual stimuli when it appears on the side opposite to the lesion.² Hemianopia is described as the partial loss of the visual field in both eyes, arising when there is damage to the visual pathway.³ Partial limb lesions are the most common cause where USN and hemianopia coexist.⁴ Both impairments are strong indicators of poor outcomes in relation to functional performance or independence in daily living, social, and emotional implications of functioning. In addition, both conditions affect body part representation in activity and mobility, identification for a specific object, and a range of approaches to intervention programs. But, not to date.

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