

August 9, 2021

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Stroke Corner Article Review: Prism Adaptation for Spatial Neglect

Thanks to Marissa Moran, DPT, NCS for reviewing this week's article



Summary topic title: Prism Adaptation Treatment Improves Inpatient Rehabilitation Outcome in Individuals with Spatial Neglect.

Article reference: Chen, P; et al. Prism Adaptation Treatment Improves Inpatient Rehabilitation Outcome in Individuals with Spatial Neglect: A retrospective Matched Cohort Study. Archives of Rehabilitation Research & Clinical Translation. 2021.

Link to full article if available: <https://doi.org/10.1016/j.arrct.2021.100130>

Definition(s):

- Spatial neglect (SN): a disorder of attention whereby patients characteristically fail to orientate, to report, or to respond to stimuli located on the contralesional side. Occurs most frequently with right hemisphere brain lesions.

- Prism adaptation treatment (PAT): An intervention that utilizes prism goggles/glasses during visuo-motor training sessions. A patient's visual attention frame is realigned which makes some of the neglected visual field come into attentional focus. Example: Use of right-deviating prisms shift the patient's entire visual field to the right and realigns the left visual field into attentional focus.
- Catherine Bergego Scale (CBS): an outcome measure developed by Kessler Foundation Neglect Assessment that looks at 10 items including: gaze orientation, limb awareness, auditory attention, personal belongings, dressing, grooming, navigation, collisions, meals, and cleaning after meals.
 - Score of 0 (no neglect) to 3(severe neglect).
- Functional Independence Measure (FIM): a measure used in inpatient rehabilitation centers to assess a patient independence on 13 motor items and 5 cognitive items which is completed by the entire rehab team.
 - o Score 0= activity did not occur score 7 = complete independence.

Purpose of article:

- To determine whether prism adaptation treatment, integrated into the standard of care within an inpatient rehab setting, improves rehabilitation outcome in patients with spatial neglect.
- Study population included stroke patients as well as patients who suffered other traumatic or nontraumatic brain dysfunction.
- Study looked at age matched controls over 14 rehab hospitals and separated them into a group that received PAT or did not. All participants had to score >0 on CBS.
 - PAT group received 8-12 sessions of PAT during inpatient stay utilizing the KF-PAT protocol.

Methods of interest

- Catherine Bergego Scale (CBS) via Kessler Foundation Neglect Assessment
 - Not reassessed, used as a baseline to assess SN
- FIM was primary outcome measure
 - Motor FIM: locomotion, transfer ability, sphincter control, self-care activities
 - Cognitive FIM: comprehension, expression, social interaction, problem-solving, and memory based
- Being discharged home.

Results of interest

- Significant difference for total FIM with the most significant change on the cognitive FIM with medium effect size.
 - No effect on motor FIM
- No significance among groups on whether someone was discharged home.

Discussion, take home message.

- The occupational therapists were trained to use the KF-PAT method and received a portable kit which included goggles fitted with wedged prism lens which shift the visual field 11.4 degrees horizontally. These prism goggles were used ONLY during PAT.

- Studies vary on recommendations about dosage. One study showed no improvement when giving only 4 sessions over 4 days or over 4 weeks. Most studies showed some improvement with > 6 sessions over > 6 days.
- Other studies have shown improvement in motor function utilizing PAT, however, the FIM motor score measures not only locomotion and transfer ability but also self-care and sphincter control. These items may not be sensitive to daily-life difficulties related to SN.
- This is a retrospective study, more clinical trials are needed to determine optimal dosage of PAT

Barriers

- Limited time and primary functional goals in inpatient rehab.
- Still unsure about dosage of PAT with much variability among studies.

Additional references

- CBS manual: https://kesslerfoundation.org/sites/default/files/files/KF-NAP_2015_Manual.pdf

Help APTA Fight the Cut!

**TAKE
ACTION!**

For Legislative Action: Your action against the proposed 3.75% 2022 Medicare Physician Fee Pay Cuts and PTA Differential Cuts (15% cut in reimbursement of PTA provided outpatient services) is vital to our profession and our patients. For a deeper dive into these issues, use this [link](#).

- For the 3.75% 2022 Medicare Physician Fee Pay Cut: PTs, PTAs, students, and patients are asked to meet or contact their members of Congress to encourage them to provide additional funding to prevent these 2022 payment cuts.
- For the PTA Differential Cuts: PTs, PTAs, students, and patients are asked to meet or contact their members of Congress to encourage them to act to pass legislation to delay these cuts until 2023, provide an exemption for rural/underserved areas, and reduce the current burdensome direct supervision requirements in private practice settings.

If you can not meet with your legislator, APTA members and their patients can use the [Legislative Action Center](#) by logging into your APTA account or [Patient Action Center](#) to send emails or social media messages.

The Stroke SIG Youtube Playlist



Thanks to great work by our Academy of Neurologic PT staff, all ANPT Special Interest Groups now have Youtube PlayLists where you can access previous & new videos all in one place! Don't forget to subscribe to the [ANPT Youtube Channel](#) to access all new content as it is posted.

Click the button below to access our Playlist of videos:

Stroke SIG Youtube Playlist

ANPT Conference Registration Is Open

ANPT Annual Conference 2021



94 SPEAKERS	Q&A SESSIONS	1 KEYNOTE SPEAKER
VIRTUAL POSTER HALL	21 LIVE SESSIONS OCT 1-3	ATTENDEE NETWORKING
25 ON-DEMAND PRESENTATIONS	VIRTUAL EXHIBIT HALL	JUNE 28 REGISTRATION OPENS
PLATINIUM  VestibularFirst	SPONSORS	BRONZE  F.A. DAVIS

Registration for the first ANPT Annual Conference is Open!

Registration link [here](#).

The **first 100 registrants** will receive a coupon for 50% off a course on the ANPT Synapse Online Education Center.

FOR YOUR CALENDAR

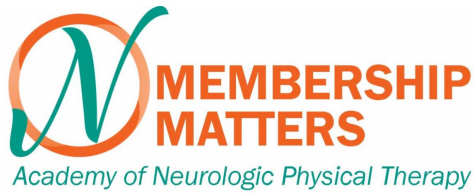
- September 8: Asynchronous/on-demand content and Exhibit Hall available
- September 24: Poster Hall available
- October 1-3: Synchronous/live conference

The [schedule for all sessions](#) is also now available.

Recordings of synchronous/live sessions, will be available starting October 5th along with the on-demand sessions, posters and exhibit hall through November 22.

CONFERENCE REGISTRATION

VISIT THE STROKE SIG ONLINE!



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