

March 1, 2021



STROKE SPECIAL INTEREST GROUP

Academy of Neurologic Physical Therapy

In this newsletter...

- **Stroke Corner: Upper Limb Robotic Rehab After Stroke**
- 2021 Stroke SIG Awards
- Save the Date for the First ANPT Conference
- Run or Nominate someone for SIG Office!

PODCAST LINK

Stroke Corner Golden Synapse Winner: Upper Limb Robotic Rehab After Stroke- Video Abstract



VIDEO ABSTRACT LINK

Don't miss the video abstract from this year's Golden Synapse Award-winning article from the Journal of Neurologic Physical Therapy: **Upper Limb Robotic Rehabilitation After Stroke: A Multicenter, Randomized Clinical Trial** by Aprile et al. Click on the button above to access the video abstract, or click [here](#) to read the full article.

Abstract

Background and Purpose:

After stroke, only 12% of survivors obtain complete upper limb (UL) functional recovery, while in 30% to 60% UL deficits persist. Despite the complexity of the UL, prior robot-mediated therapy research has used only one robot in comparisons to conventional therapy. We evaluated the efficacy of robotic UL treatment using a set of 4 devices, compared with conventional therapy.

Methods:

In a multicenter, randomized controlled trial, 247 subjects with subacute stroke were assigned either to robotic (using a set of 4 devices) or to conventional treatment, each consisting of 30 sessions. Subjects were evaluated before and after treatment, with follow-up assessment after 3 months. The primary outcome measure was change from baseline in the Fugl-Meyer Assessment (FMA) score. Secondary outcome measures were selected to assess motor function, activities, and participation.

Results:

One hundred ninety subjects completed the posttreatment assessment, with a subset (n = 122) returning for follow-up evaluation. Mean FMA score improvement in the robotic group was 8.50 (confidence interval: 6.82 to 10.17), versus 8.57 (confidence interval: 6.97 to 10.18) in the conventional group, with no significant between-groups difference (adjusted mean difference -0.08, P = 0.948). Both groups also had similar change in secondary measures, except for the Motricity Index, with better results for the robotic group (adjusted mean difference 4.42, P = 0.037). At follow-up, subjects continued to improve with no between-groups differences.

Discussion and Conclusions:

Robotic treatment using a set of 4 devices significantly improved UL motor function, activities, and participation in subjects with subacute stroke to the same extent as a similar amount of conventional therapy.

Congratulations to the Stroke SIG Award Winners!



Stroke SIG Service Award 2020

Purpose: to acknowledge a Stroke SIG member who goes above and beyond through contributions to the SIG and its efforts

2020 Winner: Meaghan Costello, PT, DPT, NCS

Meaghan has been a member of the ANPT for >10 years and assisted with the weekly article review initiative from the beginning, has identified nominees for office, and encouraged ANPT and SIG membership. Thank you Meaghan for your years of service to the Stroke SIG!

2021 Stroke SIG CSM Research Awards

Click on the title of the abstract to access the CSM presentation if you are registered for CSM!

Best Poster Award: Basic or Applied Research

[Development of a Measure of Community Walking Activity: The community Walking Index](#)

George David Fulk, PT, PhD, FAPTA and Joseph Skufca, PhD

Best Poster Award: Clinical Research

[Readiness to Change is Related to Daily Stepping, Depressive Symptoms, and Area Deprivation in Stroke](#)

Allison Elizabeth Miller, PT, DPT, Tamara Wright, PT, DPT, Henry Wright, Elizabeth Diane Thompson, PT, DPT, PhD, Ryan T. Pohlig, Ph.D. and Darcy Schwartz Reisman, PT, PhD, FAPTA

Best Platform

[Validation of Speed-Based Classification of Community Ambulation Post-Stroke: GPS Uncovers Real-World Performance](#)

Kanika Bansal, PT, MPT, Michael Monaldi, MS, David Clark, Emily Jane Fox, PT, DPT, PhD and Dorian Kay Rose, PT, PhD

SAVE THE DATE!



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

The Academy of Neurologic Physical Therapy (ANPT) is excited to host its 1st "Virtual" Annual Conference in 2021! On-demand content will be available September 8 with the virtual "live" conference October 1-3. The poster gallery will launch October 4. All content will be available through November 22.

For more information on Keynote Speakers and more, click on the button below.

[CONFERENCE WEBSITE](#)

RUN FOR SIG OFFICE

The Link to Nominate Yourself or A Colleague for ANPT Office is Live!

<https://neuropt.org/members/nomination>

You must be logged into your ANPT Account to access the form.

Positions open for the Stroke SIG board this year include:

1. SIG Nominating Committee- 3-year term
2. SIG Secretary - 3 year term

Nominations are due March 29th, 2021

Position Descriptions are available at the link above and copied below:

Secretary (3-year Term)

OFFICER DUTIES AND RESPONSIBILITIES

- i. Maintains a record of all official actions and decisions of the SIG.
- ii. Records the minutes of all SIG meetings and conference calls.
- iii. Submits minutes of SIG meetings (CSM, conference calls) to the SIG officers.
- iv. Attends the SIG officers meeting with the Academy Vice President at CSM.
- v. Assists the Chair in preparing and submitting an annual plan for the SIG to the Board of Directors.
- vi. Ensures currency of SIG website links and content every 6 months at minimum.
- vii. Provides for orientation of a successor

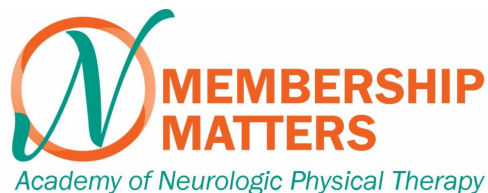
Nominating Committee Member (3-year term, 2 years as committee member and 1 year as committee chair)

DUTIES AND RESPONSIBILITIES

1. Prepares annually a slate of two (2) or more candidates for each open SIG office.
2. Coordinates with the Executive Director and Academy Nominating Committee liaison to build ballot and to conduct elections.
3. Chair attends the SIG officers meeting with the Academy Vice President at CSM.

NOMINATE YOURSELF OR SOMEONE ELSE TODAY

VISIT THE STROKE SIG ONLINE!



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ANPT Social Media

