

Neurodegenerative Impairments: Assessment and Treatment Strategies

Robert “Bobby” Hand, PT, DPT, NCS

Faculty

Robert (Bobby) Hand is a licensed physical therapist currently serving as an outpatient physical therapist at VCU Health. He is a board-certified clinical specialist in neurologic physical therapy and currently working toward his PhD in Health Sciences - Neurologic Rehabilitation through Rocky Mountain University. He is an active member of the American Physical Therapy Association and International Parkinson and Movement Disorder Society. He was the recipient of the 2018 APTA Academy of Neurology Early Career Professional Award and DDSIG Volunteer Award. He is most active in the community through the Parkinson's Foundation, as a past recipient of a Community Grant Award and a participant in the Parkinson's Foundation Physical Therapy Faculty Program 2022 cohort, and CurePSP, where he holds a position on the Board of Directors.

Disclosure - Financial: Robert Hand receives an honorarium from ERI for this course.

Non-Financial: Robert Hand actively volunteers and associates with the Parkinson's Foundation, CurePSP, and LiftPD

Audience

PTs, PTAs, OTs and OTAs.

About this Course

Learn practical management strategies to improve outcomes for patients with neurodegenerative disorders. Improve your fundamental understanding of impairments commonly seen in progressive neurologic conditions including management of muscle tone, kinetic disorders and ataxia. This course aims to improve clinician skills from diagnosis through late-stage disease management. Case studies with videos will be used to develop assessment and treatment plans with strategies to address both motor and non-motor impairments including decreased attention, difficulty multitasking, and behavioral barriers that limit therapists' ability to maintain or improve a patient's functional status.

Objectives

- Identify the mechanism of action and common side effects of medications and medical interventions commonly prescribed for patients with neurodegenerative disorders
- Select evidence-based outcome measures associated with functional impairments in patients with neurodegenerative disorders
- Determine an appropriate long-term management strategy for a patient with a neurodegenerative disorder
- Compare and contrast pharmacologic and medical management strategies for disorders of increased muscle tone
- Select an outcome and affiliated subjective reporting strategy for quantifying disorders of increased muscle tone
- Utilize an evidence-based strategy to manage spasticity in patients with neurodegenerative disorders
- Distinguish motor recalibration and affiliated perceptual deficits commonly seen in conjunction with hypokinesia
- Apply an evidence-based strategy for compensation of tremor
- Identify the impact of ataxic movements on established measures of functional mobility
- Utilize an evidence-based strategy to treat functional impairment due to truncal and appendicular ataxia

Schedule – Day 1 6:10 pm - 9:30 pm EST (US)

MUSCLE TONE:

6:10-6:30 **Webinar Registration/Zoom Course Opens**

6:30-7:00 Disorders of Muscle Tone: An Overview

- Review of Stretch Reflex & Mechanism
- What is Spasticity?
- Associated Diagnoses

7:00-8:00 Managing Spasticity

- Medical Management
 - Pharmacology
 - Surgery
- “Spastic Gait” – What’s it Mean?
 - Gait Analysis
 - AFO, FES, and Other Interventions

8:00-8:45 Increased Tone

- Stretching HEP’s – Compliance with Cognitive Impairment
- Positioning Equipment: Splints & Seating

8:45-9:30 Case Study Discussion

- Spasticity & ALS – Intensity without Overexertion
- Paraspinals & PD – Managing Postural Deformity

Schedule – Day 2 6:10 pm - 9:30 pm EST (US)

KINETIC DISORDERS:

6:10 – 6:30 **Webinar Registration / Zoom Course Open**

6:30 – 7:00 Decoding the Basal Ganglia

- Direct & Indirect – A Clinical Overview
- Recognizing Movement Disorders

Schedule – Day 2 ...CONTINUED

7:00 – 8:15 Reduced Movement – Hypokinesia & Bradykinesia

- Slow, Small, or Both?
- “Muscle Memory”

8:15 – 9:00 Hyperkinesia

- Athetosis & Chorea
- Tremor Dampening – Evidence & Anecdotes

9:00 – 9:30 Group Discussion

- Therapy Plan of Care – Length and Duration?

Schedule – Day 3 6:10 pm - 9:30 pm EST (US)

ATAXIA:

6:10 – 6:30 **Webinar Registration / Zoom Course Open**

6:30 – 7:00 Cerebellum

- Anatomy & Physiology
- Genetic vs. Environmental Factors
- Associated Diagnoses

6:45 – 8:15 Ataxia

- Types of Ataxia
- Ataxia vs. Dysmetria
- Truncal vs. Appendicular – Differences in Treatment
- “Ataxic Gait” – R26.0 in Real Terms

8:15 – 9:30 Case Study Discussion

- Ataxia with Parkinsonism
- Wheeled Mobility – When and Why?

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Credits

This course meets the criteria for 9 contact hours (0.9 CEUs) Intermediate Level.



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This course can be used toward your NBCOT renewal requirements for 9 units.

Approved provider of the **FL** Board of Occupational Therapy-CE Broker for 10.5 CE hours.

This course meets the approval of the **TX** Board of OT Examiners.

Approved by the **FL** Physical Therapy Association for 10.5 continuing education contact hours. Application has been made to the **MD** State Board of Physical Therapy Examiners.

Application has been made to the **MN** Board of Physical Therapy.

Application has been made to the **NJ** Board of Physical Therapy Examiners.

Application has been made to the **OK** Board of Medical Licensure and Supervision for Physical Therapy.

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9 hours of this course qualify towards the discipline-specific hours for the 20-hour requirement for NDTA re-certification. They do NOT qualify towards the 8-hour NDTA Instructor requirement for re-certification.

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Webinar Dates & Times

August 16, 23 and 30, 2022

9:40 am EST • 8:40 am CST • 7:40 am MST • 6:40 am PST (US)

Registration is for all three sessions. Zoom log-in instructions and course materials will be emailed/added to your ERI account 5-7 days prior to the webinar.



\$329 fee. LIMITED ENROLLMENT. Cancellation will be accepted until 14 days prior to the start date of the course, minus an administration fee of \$75. There will be NO REFUNDS after this 14 day deadline. Registration will be accepted after the deadline on a space available basis. We encourage you to register online!

**Neurodegenerative Impairments: Assessment and Treatment Strategies - Robert Hand, PT, DPT, NCS
LIVE Webinar**

August 16, 23 and 30, 2022

Course Registration Form

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How did you learn of this course? _____

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