Rehabilitation Services for
Neurodegenerative Cerebellar Ataxia
and Atypical Movement Disorders (EM)
July 11, 2025 – July 10, 2028
80067213-58557

DESCRIPTION

This 10-hour online enduring material features recorded lectures geared towards Physical Therapists, Occupational Therapists, Speech Language Pathologists, and other allied health professionals who work with patients with non-Parkinson's Disease movement disorders.

Movement disorders, excluding Parkinson's disease, include cerebellar ataxia, progressive supranuclear palsy, multiple system atrophy, corticobasal syndrome, dementia with Lewy bodies, and Huntington's disease. These conditions affect different areas of the central nervous system, particularly the cerebellum, basal ganglia, and brainstem. Cerebellar ataxia involves uncoordinated limb movements and balance issues, distinct from other disorders like PSP, characterized by eye movement difficulties, or MSA, which affects autonomic and motor functions. HD leads to chorea, involuntary movements, while CBS and DLB have cognitive and motor components.

Physicians use history and clinical exams to differentiate atypical Parkinsonian syndromes from idiopathic PD. Red flags include rapid progression, early autonomic dysfunction, and cognitive changes. Abnormal limb movements, e.g., tremors, bradykinesia, chorea and eye movements, such as saccadic issues in PSP help in diagnosis. Cerebellar ataxia typically presents with wide-based gait and incoordination, distinguishing it from other disorders.

Physical therapy, occupational therapy, and speech-language pathology play key roles in managing movement disorders. Standardized assessments include motor function tests, e.g., Berg Balance Scale for PT, and cognitive-linguistic evaluations for SLP. Therapy strategies focus on functional improvement and compensatory techniques for maintaining independence.

WHO SHOULD ATTEND

This activity is intended for physicians, physical therapists, occupational therapists, speech language therapists, and other allied health professionals.

OBJECTIVES

After participating in this activity, the learner will demonstrate the ability to:

- Identify the similarities and differences between how each of the non-PD neurodegenerative disorders present.
- Explain the similarities and differences regarding the assessment and evaluation for each of the non-PD neurodegenerative disorders.
- Implement the different approaches to the variety of non-PD neurodegenerative disorders.

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ACCREDITATION STATEMENT

The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT

The Johns Hopkins University School of Medicine designates this enduring material for a maximum of 10 *AMA PRA Category 1 Credits™.* Physicians should claim only the credit commensurate with the extent of their participation in the activity.

POLICY ON PRESENTER AND PROVIDER DISCLOSURE

It is the policy of the Johns Hopkins School of Medicine that the presenter and provider globally disclose conflicts of interest. The Johns Hopkins School of Medicine OCME has established policies in place to identify and mitigate relevant conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.

OTHER CREDITS

American Academy of Nurse Practitioners National Certification Program accepts *AMA PRA Category 1 Credit™* from organizations accredited by the ACCME.

American Nurses Credentialing Center (ANCC) accepts *AMA PRA Category 1 Credit™* from organizations accredited by the ACCME.

American Occupational Therapy Association
Approved Provider

Johns Hopkins Medicine PM&R is an AOTA Approved Provider of professional development. PD activity approval ID#11623. This Distance Learning – Independent activity is offered at 1.0 CEUs Introductory, OT Service Delivery and Foundational Knowledge. AOTA does not endorse specific course content, products, or clinical procedures.

ASHA CE
APPROVED PROVIDER

Kennedy Krieger Institute

Various Level
Up to 1.0 ASHA CEUs

This program is offered for 1.0 CEUs, (various level). **ASHA** CE Provider approval does not imply endorsement of course content, specific products or clinical procedures. ASHA Credits are approved through **May 31, 2026**.

This continuing education has been approved by the **Maryland State Board of Physical Therapy Examiners** for 10 Continuing Education Hours.

National Commission on Certification of Physician Assistants *PAs may claim a maximum of 10 Category 1 credits for completing this activity.* ***NCCPA*** *accepts AMA PRA Category 1 Credit™ from organizations accredited by ACCME or a recognized state medical society.*

The Johns Hopkins University has approved this activity for 10 **contact hours for non-physicians**.

NOTICE ABOUT OFF-LABEL USE PRESENTATIONS
The Johns Hopkins School of Medicine/ **Rehabilitation Services for Neurodegenerative Cerebellar Ataxia and Atypical Movement Disorders** may include presentations on drugs or devices, or use of drugs or devices, that have not been approved by the Food and Drug Administration (FDA) or have been approved by the FDA for specific uses only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or device he or she wishes to use in clinical practice.

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The Johns Hopkins School of Medicine takes responsibility for the content, quality, and scientific integrity of this CME activity.

DISCLAIMER STATEMENT
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I understand that while I am participating in this capacity, I may be exposed to "protected health information," as that term is defined and used in Hopkins policies and in the federal HIPAA privacy regulations (the "Privacy Regulations"). Protected health information is information about a person's health or treatment that identifies the person.

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I understand that I may direct to the Johns Hopkins Privacy Office any questions I have about my obligations under this Confidentiality Pledge or under any of the Hopkins policies and procedures and applicable laws and regulations related to confidentiality. The contact information is: Johns Hopkins Privacy Office, telephone: 410-614-9900, e-mail: HIPAA@jhmi.edu.

AGENDA/LIST OF TALKS/INDEX

Lecture	Length	Faculty
Introduction to Course	5 min	Liana Rosenthal, MD, PhD
Overview of non-PD movement disorders and anatomy and physiology of the movement system (cerebellar ataxia, PSP, MSA, CBS, DLB, HD) History and Clinical Exam for characterizing movement disorders from a physician perspective – hear from the physician what the red flags are. What makes the atypical different from iPD. What makes cerebellar ataxia different from the other diseases? Include characterization of limb movements as well as general abnormal eye movement considerations.	1 hour	Alex Pentalyat, MD, FAAN
Pharmacology including disease modifying therapies vs symptom management and current biomarker studies and clinical trials (future research) (pharmacological)	1 hour	Jee Bang, MD
Understanding abnormal eye movements and treatments in movement disorders	30 min	David Rastall, DO, PhD
Genetics of non-PD movement disorders	30 min	Weiyi Mu, ScM, CGC
Neuropsychology approach to the movement disorders patient	1 hour	Emily Murriel, PhD
Rehab management - PT -Review of literature -Strategies and approach Standardized assessments and eval considerations	1 hour	Elena Isaacson, PT, DPT
Treatment principles and considerations, management, and compensatory strategies	1 hour	Jennifer Millar, MS, PT
Rehab management – OT -Review of literature -Strategies and approach Standardized assessments and eval considerations	1 hour	Allyson Lancey, MS, OTR/L

Treatment principles and considerations, management, and compensatory strategies	1 hour	Allyson Lancey, MS, OTR/L
Rehab management – SLP -Review of literature -Strategies and approach Standardized assessments and eval considerations	1 hour	Theresa Walker, MS, CCC-SLP and Leyna Schroeder, MS, CCC-SLP
Treatment principles and considerations, management and compensatory strategies	1 hour	Theresa Walker, MS, CCC-SLP and Leyna Schroeder, MS, CCC-SLP

ACTIVITY DIRECTOR

Liana Rosenthal, MD, PhD
Associate Professor of Neurology
Director, Johns Hopkins Ataxia Center

PLANNING COMMITTEE MEMBERS

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Physical Therapist

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Certified Genetic Counselor

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David Rastall, DO, PhD
Vestibular & Ocular Motor Oto-Neurologist

Leyna Schroeder, MS, CCC-SLP
Speech-Language Pathologist

Theresa Walker, MS, CCC-SLP
Speech-Language Pathologist

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The following relationships have been reported for this activity:

NAME	ROLE	RELATIONSHIP(S)
Weiyi Mu, ScM	Presenter	**Consulting Fee:** UCB BioPharma SRL
Alexander Pantelyat, MD	Presenter	**Advisor:** Biosensics, Inc. **Consulting Fee:** Ferrer Internacional **Membership on Advisory Committees or Review Panels, Board Membership, etc.:** MedRhythms, Inc., Ono Pharma
Liana Rosenthal, MD, PhD	Planner/ Presenter	**Consulting Fee:** Bial Biotech, Biogen, Biohaven, Reata, UCB Pharma **Grant or research support:** Biohaven, EIP Pharma, Functional Neuromodulation, Pfizer, Inc.

No one else in a position to control the content of this educational activity has disclosed a relevant financial interest or relationship with ineligible companies.

All relevant conflicts of interest have been mitigated prior to the commencement of the activity.

Note: Grants to investigators at the Johns Hopkins University are negotiated and administered by the institution which receives the grants, typically through the Office of Research Administration. Individual investigators who participate in the sponsored project(s) are not directly compensated by the sponsor, but may receive salary or other support from the institution to support their effort on the project(s).

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LOCATION
Online

FEES

Registration Fee $275.00

Methods of Payment: We require full payment prior to the start of the activity. The registration fee includes instructional materials and unlimited access to content until the expiration date.

You will receive a confirmation by e-mail. If you have not received it, email the Office of Online Education to confirm that you are registered. A transcript of attendance will be available upon attestation of your credit hours and submission of the post activity online evaluation.

REFUND POLICY
All purchases are final. A handling fee of $50 will be deducted for cancellation. Refund requests must be received within 15 days of purchase by fax or mail. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins activity in lieu of cancellation is not possible.

COURSE FORMAT – METHOD OF PARTICIPATION
This enduring material is expected to take approximately 10.0 hours to complete. Once the activity is completed, you must pass the post-test and complete the evaluation with attestation to receive CME credit.

HOW TO OBTAIN CME CREDIT
To register, please visit **https://learnmore.jhu.edu/browse/som/courses/lmmeneurodegenerativecerebellarataxiarehabilitationservices-neurodegenerative-cerebellar-ataxia-rehabilitation-services** and complete the registration. Once registered, follow directions for accessing content and complete the post-test and evaluation.

RELEASE DATE
July 11, 2025

EXPIRATION DATE
July 10, 2028

PREREQUISITES FOR PARTICIPANTS
There are no prerequisites to participate in this activity.

HARDWARE/SOFTWARE REQUIREMENTS
Internet connection.

EVALUATION AND OUTCOMES SURVEY
Post activity, an online evaluation form will be available to attendees to evaluate the activity and identify future educational needs. Upon completion of the evaluation, the learner must attest to the number of hours in attendance. A certificate of attendance will be available immediately for download or print. The last day to evaluate the material and attest to your credits is **August 24, 2028**.

POST-TEST
A post-test will be conducted at the conclusion of the activity. A grade of at least 75% within three attempts is needed to receive CME credit.

AMERICANS WITH DISABILITIES ACT
The Johns Hopkins School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. *Please notify us if you have any special needs.*

FOR FURTHER INFORMATION
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