



MAY 12-16 2025 · CHICAGO, IL USA · REHABWEEK.ORG



Category: Industry

Workshop Title: Optimizing Clinical Outcomes in Overground Gait Training through Advanced Technologies

Organizer(s): Evelyne Wiskerke

Speaker(s): Lopez, José, European Center of Neurosciences
Vasquez, Christina, European Center of Neurosciences
Packel, Andrew, Jefferson Moss-Magee Rehabilitation
Crump, Zachary, Sheltering Arms Institute.

Workshop Time: 13:45 - 15:15

Attendee Engagement: The workshop will conclude with an interactive exchange with participants on applying the presented strategies in their own clinical practice.

Abstract: Overground gait and balance training replicates natural movement patterns, promoting motor learning and adaptability in realistic environments, facilitates task-specific learning and improves mobility by incorporating environmental variability and adaptive postural responses. These strengths make overground gait and balance training an important cornerstone in the rehabilitation of walking impairments. Our devices RYSENTM, Andago®, and SafeGait 360® facilitate intensive overground gait and balance training by providing dynamic adjustable body-weight support and fall protection.

In this workshop, three independent clinical experts will share their best practice in using these advanced technologies to optimise their patients' outcomes. José Lopez will discuss how the European Center of Neurosciences (Spain) uses Andago® and RYSENTM to realise motor learning principles in their overground gait and balance training applications and enhance skill acquisitions in real-world settings.

Andrew Packel from Jefferson Moss-Magee Rehabilitation (USA) will examine the role of clinical reasoning in the integration of advanced technology like SafeGait 360®, proposing a structured decision-making framework. His approach encourages clinicians to assess device features as "ingredients" in a treatment plan, aligning them with the patient's specific therapeutic needs.

Zachary Crump will showcase the innovative target-based approach Sheltering Arms Institute (USA) uses in their technology decision-making. He will share the intensity targets that their therapists aim to achieve with the rehab technology, explain how they fit into their decision-making algorithm, and apply them to overground training with RYSENTM.

The workshop will conclude with an interactive exchange with participants on applying the presented strategies in their own clinical practice.