REHABWEEK 2025

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rehabweek Chicago '25

Category: Industry

Workshop Title: Action planning in neurorehabilitation

Organizer(s): Davy LUNEAU

Speaker(s): - STEIN Joel, MD

Simon Baruch Professor and Chair, Department of Rehabilitation and Regenerative Medicine, Columbia University Vagelos College of Physicians and Surgeons

Professor and Chair, Department of Rehabilitation Medicine, Weill Cornell Medicine

Physiatrist-in-Chief, NewYork-Presbyterian Hospital

- JANSA Jelka

Ljubljana University Medical Centre | UMC, Slovenia

- Dr Mooyeon OH-PARK, Chief Medical Officer at Burke Rehabilitation Hospital
- Eleonora GUANZIROLI, PhD Biomedical Engineer at Villa Beretta Rehabilitation Center (Italy)

Workshop Time: 16:00 - 17:30

Attendee Engagement: This question will be discussed with the speakers so we can define the best way to engage attendees.

We would like to dedicate part of the workshop to demo and practice on the devices.

Abstract: Stroke patients often experience motor impairments that significantly impact their quality of life. While traditional rehabilitation methods are essential, recent advancements in Visuomotor Simulation Training approaches—such as Mirror Therapy, Action Observation, and Motor Imagery—have demonstrated high potential in enhancing motor recovery by stimulating neuroplasticity.

The IVS (Intensive Visual Simulation) device offers an innovative solution for implementing these techniques in clinical practice. Recent clinical studies and international collaborations have highlighted the unique lateralized cortical activity induces by IVS and its effectiveness in improving motor function, with evidence suggesting its interest in synergy with traditional rehabilitation methods. However, to optimize its use, clearer guidelines are needed. These guidelines will focus on integrating IVS into existing protocols, tailoring treatments to individual patients, and determining the appropriate session frequency, duration, and intensity as well as combination with other technologies.