Category: Clinical Application of Technology

Workshop Title: Communication and Swallowing are Central to Life! An Interactive Exploration of Neurotechnology for Speech and Language Therapy Throughout a Stroke Patient's Recovery - Supporting Interdisciplinary Collaboration

Workshop Organizer(s): Chrissy Bibby

In person Speaker(s):

- Bibby, Chrissy, Hobbs Rehabilitation
- Marriot, Laura, Hobbs Rehabilitation
- Amy Dennis-Jones, Hobbs Rehabilitation

Workshop Time: 16:00 - 17:30

Attendee Engagement: We will lead facilitated breakout groups at various points in the workshop, encourage an audience discussion and gather before- and after-presentation ratings of delegates' confidence and knowledge.

Abstract:

The world of neurorehabilitation for Speech and Language Therapists (SLTs) is evolving, with neurotechnology entering our clinical work. For SLTs, neurotechnology has previously felt limited, and difficult to incorporate into clinical practice.

Hobbs Rehabilitation has a strong focus on interdisciplinary team collaboration and the use of neurotechnology to drive forward patient outcomes. The MiNT Academy is bringing SLT into the world of neurotechnology ensuring that researchers and developers are considering communication and swallowing impairments when creating their devices. SLTs can use some existing technology in innovative ways to treat patients with communication and swallowing impairments; however, there is an opportunity for significant development in this field, to improve access for all and allow the patient to increase their speech therapy dosage, in and out of clinic.

Our interactive workshop with facilitated breakout groups allows delegates to explore and critically assess existing neurotechnology when treating aphasia, dysarthria and dysphagia. The technology will be broadly categorised as 'portable', 'clinic-based' and 'software'. An overview will be presented on how to use these with the SLT caseload with acquired neurological conditions, through a case-based discussion, at various stages of stroke recovery.

The workshop will guide delegates through from the relevant evidence base to clinical application of neurotechnology, allowing for a detailed appraisal of the advantages and disadvantages when using the technology. They will have opportunities to engage in clinical discussions encouraging them to challenge their own treatment approaches and to improve their confidence when incorporating technology into practice. The session will conclude with delegates having an appreciation of the often hidden interdisciplinary benefits of a device, as well as the need for future technology to be developed, to better serve this population.