



**Category:** Application and clinical integration

**Workshop Title:** Meeting Everyone's Needs: Integrating the "Best" Lower Limb Rehabilitation Technology to Meet the Diverse Needs of Patients in an In-Patient Complex Trauma Rehabilitation Setting.

**Organizer(s):** Toria Chan

**Speaker(s):** Chan, Toria, STEPS Rehabilitation, UK  
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**Workshop Time:** 13:45 - 15:15

**Attendee Engagement:** Practical hands on demonstrations with technology, discussions/brainstorming in groups, voting for favourite technology.

**Abstract:** There is an increasingly vast choice of commercially available rehabilitation technologies, each demonstrating different aims, benefits and limitations. Although there is an understanding of the potential benefits, the implementation of these technologies into clinical practice is known to be complex and often requires a substantial outlay of resources (Mitchell et al., 2023) despite limited available evidence of their cost-effectiveness (Agbemanyole et al., 2024). Therefore, choosing which technologies to bring into a rehabilitation service is a complex decision, with significant financial and service outcome implications if the "wrong" choice is made.

Using the real example of a UK residential neurological and complex trauma rehabilitation centre, this interactive workshop aims to explore the practicalities and considerations when choosing and integrating lower limb rehabilitation technology into clinical practice.

Outline of Workshop:

1. Background to the service and its rehabilitation technology requirements, particularly highlighting the diversity of patients' presentations and rehabilitation needs (e.g. brain injury, spinal cord injury, amputation, complex polytrauma).
2. An introduction to the technologies in the room alongside three clinical case examples demonstrating the broad spectrum of needs of the patients in the service.
3. Attendees will breakout into groups to have hands on demonstrations of the technologies present. Representative experts from the technology providers will be present to assist this and join the discussion groups.
4. The groups will reconvene to discuss how these technologies could be used across all three cases and therefore which would be the "best" choice for implementation into the clinic.
5. Discussion, feedback and vote with the wider audience.

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6. The presenters will explain which technologies had been chosen and used in combination to treat these three cases, including clinical reasoning and overall outcomes.