



Category: Development and Implementation of Technology

Workshop Title: Re-Envisioning Clinical Research Evidence for Rehabilitation Technology to Support Integration to Practice

Workshop Organizer(s): Rosalie H Wang

In person Speaker(s):

- Rosalie H Wang
- Nina Hovanec
- Aaron Yurkewich
- José López Sánchez
- Alison Watt
- Heather Colquhoun

Workshop Time: 13:45 - 15:15

Attendee Engagement:

Interactive lecture with audience surveys, small group discussions on participants' own projects in relation to the workshop content, large group debriefing session to summarize learnings and opportunities, opportunities for future collaborative work

Abstract:

Current approaches used in evidence generation for rehabilitation technology interventions (RT) are based on evidence-based practice (EBP) with randomized controlled trials (RCTs) as criterion standard and on clinical trial practices developed for pharmaceutical research. Recommendations for intervention integration into practice considers systematic reviews and guidelines based on high quality evidence. For RT, the availability of what is considered high-quality efficacy/effectiveness evidence, according to evidence grading schemes or hierarchies, is lacking. However, current approaches to generate evidence may be inappropriate or unfeasible, given complex user populations, and misaligned to the pace of technological change. Beneficial RT may not be commercialized or integrated into practice to benefit users. This workshop will engage the RT community to exchange knowledge and collaborate to re-envision evidence generation and appraisal and discuss new approaches for rigorous evidence generation. The workshop will involve the following content and activities: 1. Interactive lecture and surveys on EBP, research methods, study designs, and challenges of evidence generation for RT (30 min); 2. Breakout groups: Discuss experiences with RT development and evidence generation and opportunities for new approaches (30 min); 3. Large group: Discuss challenges and opportunities, and consolidate ideas for new approaches and future work (30 min). This workshop will be of interest to researchers, developers and clinicians across all RehabWeek societies who are involved in RT innovation, evidence generation and clinical application of RT.