



2nd Annual Stroke Tank: Pitch it to the Judges!™

Defining Stroke Recovery Across the Post-Acute Care Continuum

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Recovery of arm weakness after stroke is critical for functional independence. Clinical, neuroimaging (i.e. MRI), and neurophysiological (i.e. transcranial magnetic stimulation, TMS) assessments are being developed to provide predictions of upper extremity motor recovery after stroke. However, not all clinical centers have access to the technology required, and unpredictable length of stay and follow-up in the current post-acute care continuum make validation of these predictors challenging. More detailed, longitudinal predictors of upper extremity motor impairment, as well as an understanding of how recovery generalizes across International Classification of Functioning (ICF) domains, are needed to accurately capture stroke outcomes and better personalize rehabilitation. The proposed work will lead to a predictive algorithm for upper extremity impairment after stroke and a comprehensive understanding of how recovery of arm weakness affects outcomes and patient quality of life.