



1st Annual Stroke Tank: Pitch it to the Judges!™

Pre-Hospital Triage Decisions for Patients with Suspected Stroke Due to Severe Large Vessel Occlusion Stroke: A Decision Analytic Modeling Cost-Effectiveness Study

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Currently, we lack evidence to guide the optimal pre-hospital triage of patients with suspected large vessel occlusion (LVO) to primary versus comprehensive stroke centers depending on transport times, local resources, and timeliness of care. Our primary aim is to develop, analyze, and verify a decision model that includes repeated triage simulations of a patient with suspected stroke due to LVO to determine the effectiveness and cost effectiveness of various pre-hospital triage approaches (such as presentation to closest PSC versus bypassing a PSC for transport to a CSC). The model will take into account variation in transport times, in treatment times for tPA, in endovascular eligibility, and in times to endovascular intervention. The results of the decision model will inform ideal transport destinations for patients with suspected stroke due to LVO based on presentation characteristics, transport times, and variation in hospital door-to-needle times.