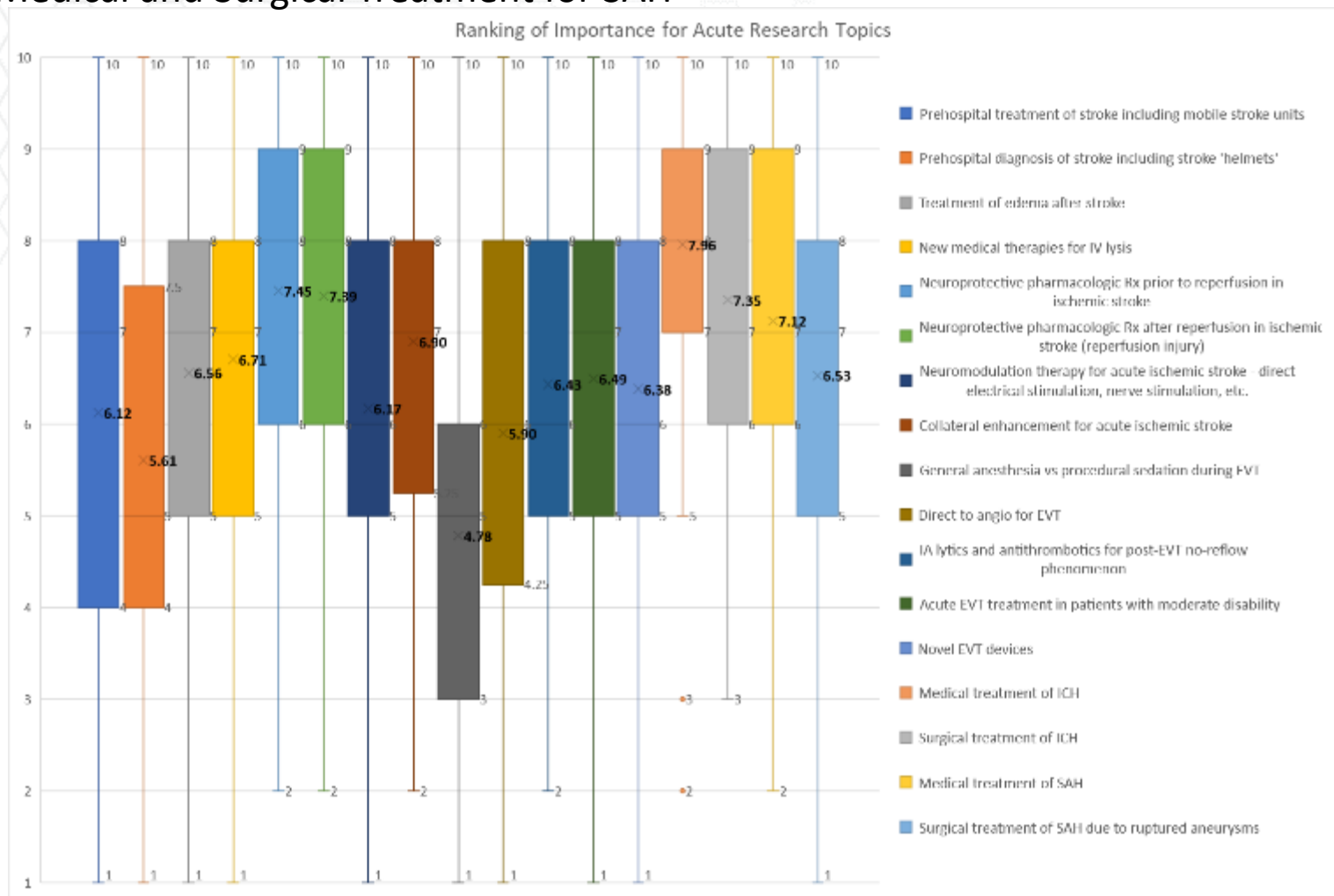Themes for priority setting conferences

Acute Stroke Working Group

On behalf of the ASWG

StrokeNet Acute Stroke Priorities in 2023

1. Medical Treatment for ICH
2. Neuroprotection
3. Medical and Surgical Treatment for SAH

Ranking of Importance for Acute Research Topics

2024 Acute Stroke Themes for Discussion

- 1. Address barriers to getting acute stroke trials and treatments to rural and underserved communities

- 2. Ultra-early intervention (Prehospital diagnosis and treatment of acute stroke)

- 3. Neuroprotection

NIH〉StrokeNet
PREVENTION | TREATMENT | RECOVERY

Acute Stroke Rx to Rural & Underserved Patients

- EVT and many of our research interventions are not available at rural (geographically challenged) and underserved hospitals

- Longer times to treatment and reduced treatment options for rural and underserved patients contribute to disparities in outcomes

- Transfer to a stroke center is more common

- Pragmatic and decentralized trials could contribute to the StrokeNet portfolio

- **How can StrokeNet leverage our network to address treatment gaps for rural and underserved communities?**

Ultra Early, Pre-Hospital Interventions

- Mobile stroke units (MSU) can facilitate prehospital diagnosis, treatment and research efforts

- By far, the majority of stroke patients will not be transported by MSU

- Healthcare technologies (e.g., phone apps, wearable technology, point of care testing) and AI analytic technologies (ML, NLP, LLM) are ripe to be used in innovative ways for acute stroke detection and/or subtyping

- **How can StrokeNet utilize new technologies to transform prehospital care in the fleet of regular ambulances?**

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PREVENTION | TREATMENT | RECOVERY

Neuroprotection

- New opportunities for neuroprotection exist with EVT, the STEP platform, and the SPAN network

- Pre-EVT – Preservation of salvageable ischemic tissue during transport to thrombectomy center
  - Initial transport from field (MSU or standard ambulance)
  - Secondary transport from rural and underserved hospital

- Post-EVT - Post thrombectomy treatment to reduce reperfusion injury

How can we leverage our StrokeNet, STEP, and SPAN infrastructure to implement the next phase of neuroprotection trials?

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