From Institutional Initiative to Community-Wide Impact: Benchmarking Stroke Education Through a Monthly Neurocritical Care Lecture Series

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Background

Stroke remains a leading cause of long-term disability and mortality (1). Despite advances in acute stroke care, knowledge gaps persist across multidisciplinary teams and community partners involved in stroke systems of care (2). The Neurocritical Care Lecture Series (NCCLS), launched in 2016, was introduced to bridge these gaps by providing monthly recurring, evidence-informed, and multidisciplinary education to enhance clinical competency and standardize practice.

Aim

To benchmark NCCLS engagement by evaluating attendance trends and facility reach from 2023–2025, assess topic expansion and multidisciplinary growth, and identify opportunities to strengthen educational impact and community partnerships.

Methods and Program Description

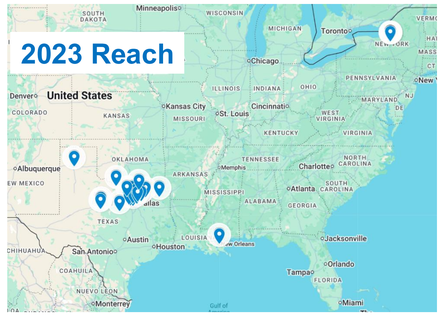
- Monthly lecture series established in 2016, featuring presenters from neurocritical care, vascular neurology, neurosurgery, neurointerventional radiology, pharmacy, therapy rehabilitation, and nursing quality teams.
- Educational content aligned with key domains of stroke care, including acute treatment, post-procedure management, secondary prevention, and stroke systems optimization (3).
- Benchmarking data collected through attendance logs and CME/NCPD participation records.
- Engagement metrics from 2023–2025 were analyzed to evaluate participation growth, institutional and community reach, and interdisciplinary involvement.

Results

NCCLS demonstrated sustained engagement across the evaluation period, supported by strong participation from community hospitals, regional partners, and multidisciplinary providers.

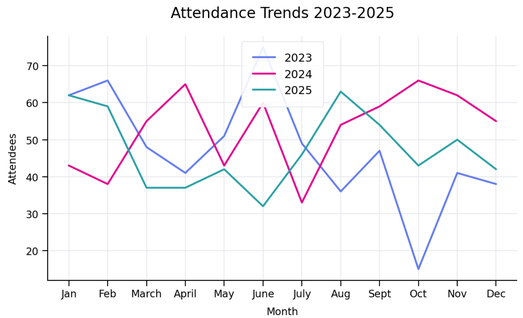
Key findings include:

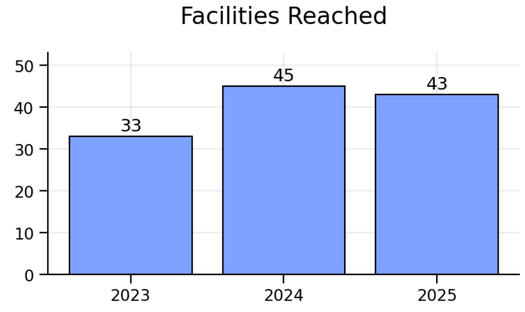
- Twelve sessions were delivered each year (2023–2025).
- Live participation remained consistently high (569 in 2023; 633 in 2024; 567 in 2025), averaging approximately 50 attendees per session (47–54).
- Facility reach: 33 (2023) → 45 (2024) → 43 (2025).
- Interdisciplinary involvement broadened, representing 69 distinct entities across hospitals, academic medical centers, private practices, professional organizations, and industry partners.

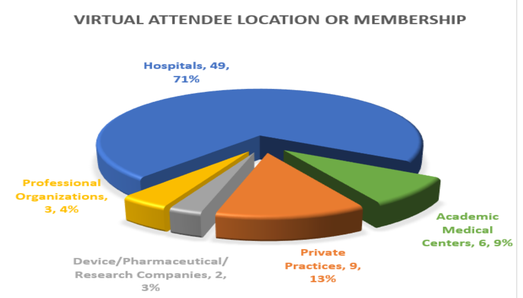












Participation Over Time

Attendance and institutional reach remained strong across the evaluation period (2023–2025), with sustained engagement, expanding multidisciplinary participation, and broader community involvement

Discussion & Conclusion

Benchmarking data show sustained participation, expanded community reach, and strong multidisciplinary collaboration across 2023–2025. The transition from a monthly institution-based lecture series to a regional resource has supported more consistent stroke care practices across partner facilities.

The NCCLS provides a scalable model for continuous professional development in stroke care. Sustained engagement and expanding institutional participation demonstrate regional impact and support continued investment in structured education.

Future enhancements include simulation-based learning, feedback-driven topic selection, and a structured outcome-tracking plan incorporating pre/post knowledge checks, follow-up assessments, and linkage to stroke quality indicators to evaluate long-term educational impact. Findings should be interpreted within the context of program-level evaluation and non-randomized data.

References

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