SYNCHRONIZING STROKE CARE USING A.I

Early Experience Utilizing **Artificial Intelligence Shows Significant Reduction in Transfer Times & Length of Stay** in a Hub & Spoke Model[1]

WHAT IS VIZ.AI?

Viz.ai's stroke detection and workflow synchronization software utilizes artificial intelligence (A.I.) to automatically detect suspected LVO strokes on CT imaging, alert the on-call stroke team, and coordinate care across hub and spoke hospital systems via HIPAA-compliant mobile image viewing and communication.

STUDY DESIGN[1]

- Multicenter, retrospective, investigator-initiated study
- Evaluate Viz LVO's impact on the mean time from CT angiogram at a Primary Stroke Center (PSC Imaging) to arrival at a Comprehensive Stroke Center (CSC Arrival) and on mean Neuro-ICU and Hospital length of stays (LOS).
- LVO stroke patients (n=43) presenting between:
  - Feb '17 - Nov '18 (pre-Viz)
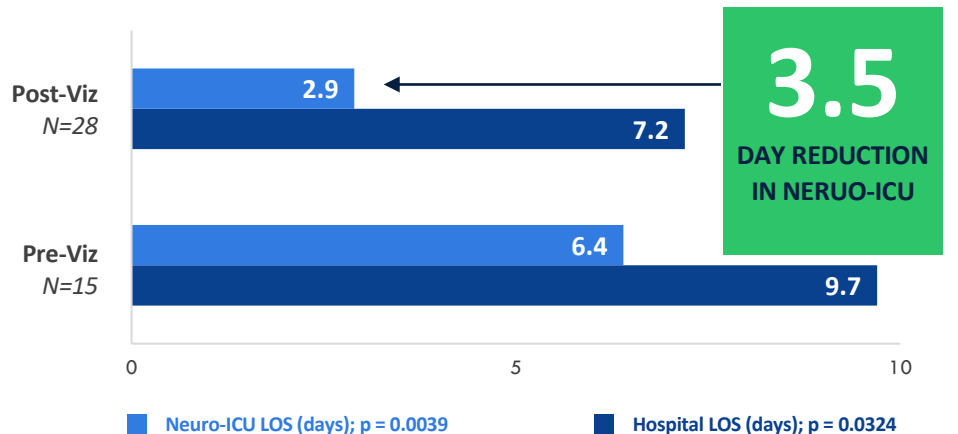 - Nov '18 - May '19 (post Viz)

Time Saved: PSC Imaging to CSC Arrival

39% Mean Reduction in Time from PSC Imaging to CSC Arrival (min)

66 MINUTES SAVED

Post-Viz N=28	105
Pre-Viz N=15	171

Length of Time (min); $p = 0.0163$
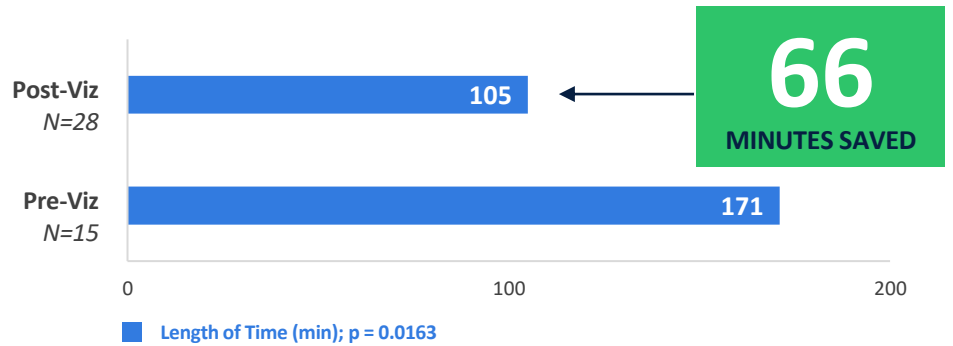
Reduced LOS: Neuro-ICU and Hospital

55% Mean Reduction in Neuro-ICU LOS, 25% in Hospital LOS

3.5 DAY REDUCTION IN NERUO-ICU

	Neuro-ICU	Hospital
Post-Viz N=28	2.9	7.2
Pre-Viz N=15	6.4	9.7

Neuro-ICU LOS (days); $p = 0.0039$ Hospital LOS (days); $p = 0.0324$

SYNCHRONIZED CARE WITH VIZ.AI

Viz LVO resulted in **statistically significant improvements** in the mean time between PSC Imaging and CSC Arrival (66 min saved), as well as, mean Neuro-ICU LOS (3.5 days saved) and Hospital LOS (2.5 days saved).

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EACH MINUTE DELAY IN THROMBECTOMY[2-4] =

4-DAY LOSS OF DISABILITY-FREE LIFE	10-DAY LOSS OF FUNCTIONAL INDEPENDENCE (MRS 0-2)	$1,059 LOSS OF MEDIAN NET MONETARY BENEFIT

$4,922 HOSPITALIZATION COSTS PER DAY[5]

PROJECTED IMPACT ON STROKE CARE

66 Minutes =
Projected Additional Day Per Patient

+265 DAYS
OF DISABILITY-FREE LIFE[2-4]

+660 DAYS
OF FUNCTIONAL INDEPENDENCE[2-4]

(MRS 0-2)

Time is Money, Not Just Brain
Annualized Projected Viz Cost Savings

	PSC IMAGING – CSC ARRIVAL	OVERALL LOS
Thrombectomies	100 patients per year	
Time Savings[1]	66 minutes saved	2.5 days saved
Economic Value[2-4]	$1,059 per minute	$4,922 per day
Viz Cost Savings	$6,989,400 per year	$1,230,500 per year

By synchronizing stroke workflow and significantly reducing time to treatment, Viz may not only improve patients' lives, but also reduce the economic burden of stroke.

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[1] Hassan A, et al. Early Experience Utilizing Artificial Intelligence Shows Significant Reduction in Transfer Times and Length of Stay in a Hub and Spoke Model. ISC Abstract, moderated poster, 2020.
[2] Hassan A, et al. Real-World Evidence: The Time We Save Because of A.I. ISC Expert Theater, moderated presentation, 2020.
[3] Goyal M, et al. Cost analysis of the SWIFT-PRIME trial, ESOC 2018.
[4] https://neuronewsinternational.com/time-is-money-not-just-brain/
[5] MedPAR FYI 2018, DRG 23 and DRG 24 with AIS Dx, Average Cost Per Day Using Standardized Hospital Reported Cost.