

Aidoc Stroke AI Solution Shows Significant Time Savings



Reduction in Stroke Door to Puncture Time by 34%

AI vendor transition from Conventional AI to **Aidoc's** Stroke Solution resulted in a significant reduction in stroke door to puncture time (DTP) of 38 minutes, or 34%.

Data was collected retrospectively at a large academic healthcare system studying the impact of an AI vendor transition as the primary stroke triage AI system. Data consisted of 354 acute stroke code patients that compared a pre-implementation period and post-implementation period with corresponding months selected to minimize seasonal effects. The mean workflow metrics - such as time to imaging, time to diagnosis results and time to intervention - were collected to compare both time periods.

Reduction in Stroke Door to CT Time by 24%

Time from door to CT results for both neurovascular (reduced by 24%, or 7 minutes) and radiology teams (reduced by 25%, or 8 minutes).

	Conventional AI	Aidoc	Time Saved
# Stroke Codes	87	90	-
Door to CT	29.5 min	22.5 min	7 min
Door to Puncture	113 min	75 min	38 min

Differences in workflow efficiency + AI capability

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Significant Improvements Gained due to Vendor Transition



Outcome suggests that differences in workflow efficiency, coupled with AI's capabilities, can contribute to the significant improvements between vendor solutions.



The effectiveness of Aidoc's solution underscores the importance of vendor selection in optimizing clinical outcomes.



Further research is needed on incidental stroke findings, vessel occlusion location distribution and how AI can impact patient care among these different groups.

Disclosures

Abstract presented at SNIS 2024 Annual Meeting: Enhancing Stroke Care Efficiency Through Ai Vendor Transition: A Comparative Study Of Workflow Metrics Before And After Implementation. H. Chokhawala,, H. Cuellar, R. Shah, A. Savardekar; Louisiana State University Health Sciences Center, Shreveport.

Stroke solution is based on Aidoc's AI Triage solutions in combination with Icometrix.