aidoc

Streamlining PE Management:

AI-Driven Efficiency and Significant Cost Savings

The integration of AI in Pulmonary Embolism Response Teams (PERT) is transforming PE management. AI-driven interventions can speed up time to treatment, reduce ICU stays and ultimately save hospitals significant costs. Recent studies at leading U.S. health systems have shown the benefits of using AI in PE treatment - enhancing outcomes for patients and facilities.

Key Findings:

1. Cost Savings

Cedars Sinai

Cedars-Sinai Medical Center, a **1,046-bed facility** serving nearly **2 million patients annually** in the Los Angeles area, saw several cost-saving outcomes with AI-enhanced PE care.

23% reduction in ICU length of stay translating to a cost savings of $10,500 per mechanical thrombectomy patient[1]

$500k cost savings per year at a procedural volume of about 50 annual mechanical thrombectomies[1]

2. Efficiency Gains

Methodist HEALTHCARE

HCA Methodist Hospital, an **811-bed health system** and the largest cardiovascular provider in South Texas, has improved efficiency and reduced patient length of stay for those needing advanced therapies.

24% reduction in time to thrombectomy[2]

55.4% reduction in ICU length of stay[2]

utmb Health

Meanwhile, University Texas Medical Branch (UTMB), a **1,037-bed system** with over **40k discharges in FY2023,** found similar benefits for length of stay.

21.6% reduction in ICU length of stay[3]

> "The other thing that I think is really exciting is the fact that we've shown this is very helpful for pulmonary embolism, but that's only one algorithm that [Aidoc] has. It's really exciting to think about how this could be applied to stroke or trauma and all the other things you have algorithms for."

-Nate Mizraki, MD
Resident at Cedars-Sinai Medical Center

Learn more about the impact of AI-driven care activation for acute pulmonary embolism.

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References
1. Mizraki, N. "Cost-Effectiveness Analysis of AI-Driven Pulmonary Embolism Response Team Activation in Mechanical Thrombectomy" Presented at the 10th Annual Pulmonary Embolism Symposium 2024
2. Burch, C. "Improving Patient Outcomes with an AI-ENhanced Pulmonary Embolism Response Team in a Large Healthcare Network" Presented at the 10th Annual Pulmonary Embolism Symposium 2024
3. Zaiden, Dr. "Impact of AI-Driven Pulmonary Embolism Response Team on Clinical Outcomes: A Comparative Study of ICU Length of Stay and Intervention Rates." Presented at the 10th Annual Pulmonary Embolism Symposium 2024