



# AI in Action:

## Increasing Appropriate Intervention Rates and Clinical Outcomes in PE Care

AI helps healthcare providers streamline pulmonary embolism (PE) treatment by ensuring timely and appropriate care for high-risk patients. Multiple abstracts highlighting Aidoc's PE solutions demonstrated significant advancements in patient care and outcomes.

### Key Findings:

#### 1. Increased Appropriate Interventions



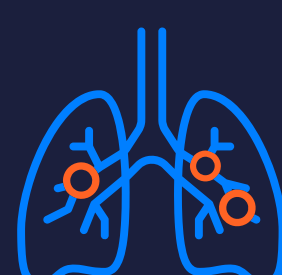
Jamaica Hospital, a **431-bed system with the busiest ED in New York**, found more opportunities to perform appropriate interventions on patients in need.



**58%** increase in patients referred for catheter-directed therapies post-AI<sup>1</sup>



At University of Texas Medical Branch (UTMB), a **1,037-bed system with over 40K discharges in 2023**, also found more opportunities to perform appropriate interventions on high-risk patients.



**22%** increase in advanced interventions<sup>2</sup>

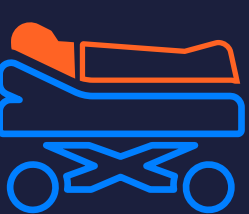
#### 2. Improved Outcomes



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.



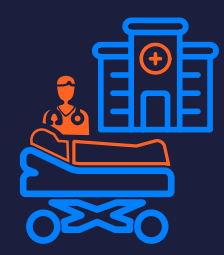
**48.8%** reduction in time to ultrasound-assisted thrombolysis (USAT)<sup>3</sup>



**61.8%** reduction in ICU length of stay for USAT patients<sup>3</sup>



**24%** reduction in mean time to thrombectomy<sup>3</sup>



**55.4%** reduction in mean ICU length of stay post-Aidoc implementation<sup>3</sup>



At Mount Sinai, a **3,500-bed facility** with over **418K annual ED visits**, AI showed the benefits of automated notifications to care teams.



Dynamic risk stratification **accurately triggers PERT alerts based on AI driven PE finding, AI measured RV/LV ratio and elevated troponin and blood pressure thresholds**. The PERT is activated only when these criteria are met, preventing alert fatigue and ensuring no false positives. This approach ensures precise and reliable patient management.<sup>4</sup>

“ By being able to identify and risk stratify this [PE] quickly, it really speeds up the timeline, which has been shown to be so critical, especially with these higher risk PEs. ”

**-Farnaz Dadrass, MD**  
Mount Sinai

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

DOWNLOAD WHITEPAPER

References  
1. Habeeb, S. "The Sustained Increase in the Utilization of Interventional Therapies for Acute Pulmonary Embolism Driven by Integration of Artificial Intelligence in the Clinical Practice" Presented at the 10th Annual Pulmonary Embolism Symposium 2024  
2. 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  
3. Burch, C. "Improving Patient Outcomes with an Enhanced Pulmonary Embolism Response Team in a Large Healthcare Network" Presented at the 10th Annual Pulmonary Embolism Symposium 2024  
4. Dadrass, F. "AI Driven Management of Pulmonary Embolism in a Large Urban Center" Presented at the 10th Annual Pulmonary Embolism Symposium 2024