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How **Jefferson Einstein** Increased Appropriate PERT Interventions with AI-Powered Solutions

🔍 OVERVIEW

Many health systems share the same goal: deliver the highest standard of patient care. But rising imaging volumes, manual workflows and outdated communication modalities make it difficult to keep pace with increasing imaging demands. When delays occur, acute conditions like pulmonary embolisms (PEs) can become even more life-threatening, putting patients at further risk.

Jefferson Einstein wanted more for the patients they treat. Aidoc's clinical AI was already implemented within diagnostic radiology workflows, but clinicians knew more could be done, especially within the PE response team (PERT) workflow. The goal? Enable streamlined management, expedited alerts and rapid mobilization of care teams to accelerate time-to-treatment.

✅ THE RESULTS

By implementing Aidoc's PERT Solutions, Jefferson Einstein's clinicians could access real-time updates and collaborate with other departments seamlessly, resulting in significantly reduced delays.

Avi Sharma, MD, director and associate chair of AI at Jefferson Einstein, explained, "The AI triggers a streamlined process: It alerts interventional radiologists, who then mobilize necessary resources to triage qualified patients to the operating room. This has reduced treatment times and bolstered clinicians' confidence by improving communication and decision-making."

Improved turnaround times from the radiology department[1]	20% reduction in exam-to-needle time (148 minutes to 119 minutes)[1]	73.8% increase in appropriate PERT intervention rates[1]

✓ **Dr. Sharma says it best:** "In real terms, this means faster, more precise responses when every minute matters."

🤝 THE PARTNERSHIP

Jefferson Einstein, part of the Jefferson Health system, has a culture of innovation and commitment to staying "on the bleeding edge" of advancements. The team partnered with Aidoc in February 2023 to revolutionize PE management — streamlining workflows that enable improved patient care and outcomes.

Aidoc's technology also seamlessly integrates into Jefferson Einstein's existing systems, including Fuji Synapse PACS and Cerner EHR, to ensure minimal disruption to its preferred workflows.

All of this is made possible through Aidoc's aiOS™, a proprietary platform that seamlessly integrates with existing IT systems, electronic health records (EHRs), data management and reporting processes.

"Choosing a consistent, adaptable partner was key, and over the years, **we've grown alongside Aidoc,** deploying more systems to further enhance patient care."

— **Avi Sharma**, MD, Director and Associate Chair of AI, Jefferson Einstein

References
1. Siwicki, B. (2025, March 21). Jefferson Einstein uses AI to transform acute pulmonary embolism management. Healthcare IT News.
https://www.healthcareitnews.com/news/jefferson-einstein-uses-ai-transform-acute-pulmonary-embolism-management