How Aidoc's AI Helps Improve Radiology Turnaround Time (TAT)

As imaging demands increase, health systems are looking for ways to improve both efficiency and productivity to benefit patients and radiologists alike.

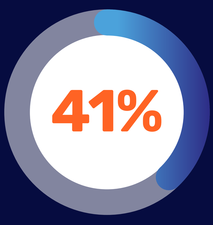
With Aidoc's AI solutions, radiologists get an intelligently reprioritized list of studies to review, ensuring they're reading the most critical cases first. This results in prompt diagnosis and treatment, reduced length of stay, improved patient satisfaction and, ultimately, better outcomes.

When it comes to radiology TAT, time-to-read is a key factor, especially for time-sensitive or critical findings. Here are some of the successes Aidoc sites are seeing.

UNIVERSITY OF MIAMI HEALTH SYSTEM

reduction in median TAT (186.65 minutes) for positive intracranial hemorrhage (ICH) patients[1]

LAHEY HOSPITAL AND MEDICAL CENTER

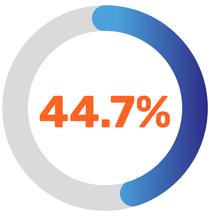


reduction in TAT (23.4 minutes) for positive acute pulmonary embolism (PE) patients[2]

NETHERLANDS CANCER INSTITUTE (NKI)

reduction in TAT (7,624 minutes) for positive iPE patients[3]

UNIVERSITY OF ROCHESTER MEDICAL CENTER (URMC)



reduction in TAT (30 minutes) for positive ICH patients[4]

"I started my career in AI in radiology 25 years ago and there has been no way to deploy the developments that we've published in academic papers. Now… Aidoc has opened the window to bring all these academic advances into the field."

Axel Wismuller, MD
Director of the AI Radiology Laboratory, URMC

Since 2016, Aidoc has delivered clinically validated results from a broad spectrum of institutions — with Aidoc solutions demonstrating a high-level of reliability and validity across more than 180 published studies or abstracts.

DOWNLOAD THE COMPENDIUM

1 Ayden, Dr., et al. "Engineering Structural Workflow Efficiencies in the Outpatient Imaging Center: The Synthesis of Human Intervention (HI) and Artificial Intelligence (AI) for Actionable Incidental Findings." Oral Presentation, RSNA 2024

2 Harrison Brendan. "Worklist Reprioritization Using Artificial Intelligence Improves Turnaround Times of Chest CT Examinations Positive for Acute Pulmonary Embolism." RSNA Annual Meeting 2021. Session ID: SDP-MS-2.

3 Topff, Laurens, et al. "Artificial Intelligence Tool for Detection and Worklist Prioritization Reduces Time to Diagnosis of Incidental Pulmonary Embolism at CT." RSNA 2023 Scientific Assembly and Annual Meeting Abstracts, 2023.

4 Stockmaster, L., et al. "The Effect of Artificial Intelligence-Based Intracranial Hemorrhage Detection on Study Turnaround Time for Emergent Care Non-Contrast Head CT – A Prospective Randomized Clinical Trial." RSNA 2019 Conference, Pittsford, NY, 2019. Poster Presentation.

@aidoc | info@aidoc.com