UHealth Puts Patients First
with Point-of-Care AI Insights

aidoc

Patients deserve faster answers and faster care. In traditional outpatient imaging workflows, critical findings like a pulmonary embolism (PE) or intracranial hemorrhage (ICH) can remain undetected for hours or even days. These delays put patients at risk and prolong the path to treatment.

The University of Miami Health System (UHealth) set out to change that. In collaboration with Aidoc, UHealth launched Point-of-Care AI Deployment (POC-AID), a first-of-its-kind initiative that delivers real-time AI insights immediately upon scan while the patient is still on-site, enabling faster interventions and a more responsive care experience.

To evaluate the impact of this patient-first model, UHealth and Aidoc measured key clinical and operational outcomes including turnaround time (TAT) and Emergency Department (ED) transfer rates. The results show how rethinking outpatient imaging can drive measurable improvements in both efficiency and patient care.
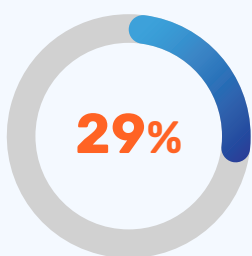
THE RESULTS
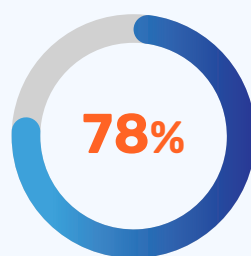
Creation of a Direct Outpatient-to-ED Pathway

By integrating AI at the point of scan, UHealth established a direct pathway from outpatient imaging centers to the ED for patients with newly identified acute conditions.
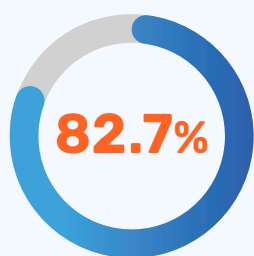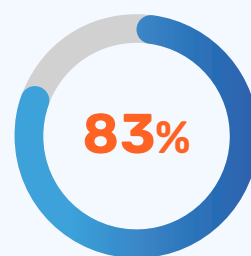
82.7%	**29%**	**78%**	**83%**
reduction in median TAT for positive iPE cases, from 383.6 minutes to 66.4 minutes.[1]	of patients with iPE (n=23) sent directly to the ED for evaluation and treatment following AI alerts.[1]	of ED patients (n=18) admitted.[1]	of ED patients put on anticoagulation therapy, one sent for mechanical thrombectomy and four PERT activations.[1]

THE PARTNERSHIP

The POC-AID of Aidoc's aiOS™ platform and triage algorithms across UHealth's outpatient centers flagged all suspected positive findings to radiologists and established a direct pathway to the ED for patients requiring timely intervention.

This collaborative model between radiologists, AI technology and clinical teams demonstrates a new standard for outpatient care accelerating time to diagnosis, improving treatment initiation and enhancing patient outcomes.

> "By combining our physician expertise with Aidoc's AI technology, our goal is to provide even more timely and precise care to our patients, ultimately improving their overall healthcare experience. We intend to move AI up to the 'point of care' and even the 'point of scan.'"
>
> **— Alexander McKinney, MD, Chair of Radiology, UHealth**

References

1. Thiago A. Braga, MD, Ayden Jacob, MD, Cinthia Del Toro, Kirby Quinn, BS, Felipe Munera, MD, Jean Jose, DO, Alexander M. McKinney, MD, BEng. (2024) Engineering Structural Workflow Efficiencies in the Outpatient Imaging Center: The Synthesis of Human Intervention (HI) and Artificial Intelligence (AI) for Actionable Incidental Findings in Pulmonary Embolism and Intracranial Hemorrhage.