Rad AI

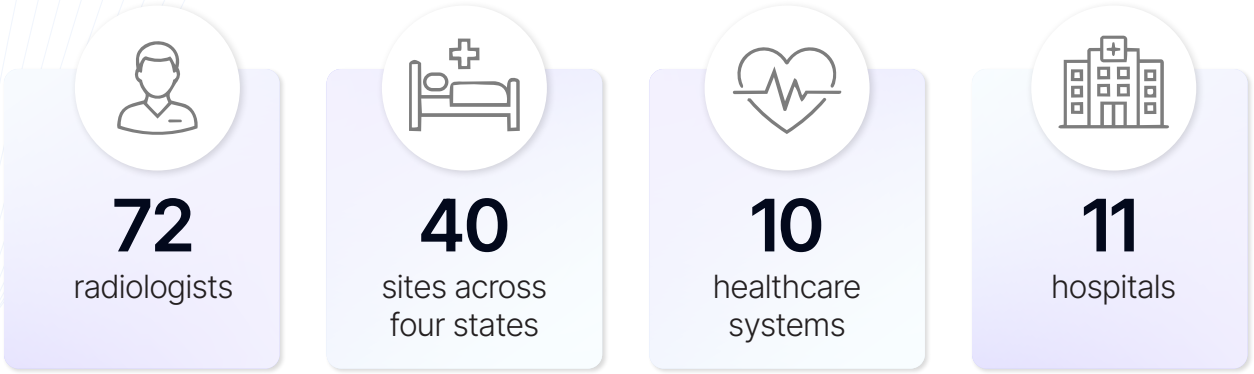
CASE STUDY

How Radiologic Associates of Fredericksburg Is Improving Reporting Efficiency as Its Practice Grows

Radiologic Associates of Fredericksburg (RAF) is an independent, physician-led radiology practice with roots in Virginia. As demand for imaging and around-the-clock subspecialty coverage expanded, the group grew from approximately 40 to 72 radiologists in a year, extending its presence across Virginia, Maryland, West Virginia and North Carolina.

For RAF, growth brought a practical challenge: how to support more patients and healthcare partners while making the radiologist's workday more sustainable. Practice leaders saw the reporting workflow as an opportunity to improve the day-to-day experience for radiologists and turned to Rad AI for support.

RAF at a Glance



A combination of on-site and remote radiology services

Background

RAF's rapid expansion required a more unified technology environment. With physicians working across healthcare systems on disparate platforms, the group needed to consolidate its PACS environment and improve the reporting workflow around it.

At the same time, RAF's leadership recognized that asking radiologists to work faster was not a sustainable answer to growing demand. Reporting involved time spent typing, correcting dictation and organizing information — work that competed with image interpretation and communication with referring physicians.

For Roni Talukdar, MD, president of RAF, the opportunity was to remove that friction. "The goal for me for technology is to remove the drudgery of medicine," Talukdar said.

That philosophy helped shape RAF's approach to its broader reporting technology transition. The practice began adopting Rad AI Reporting, moving beyond the dictation platform its physicians had used for years.

Why Rad AI Reporting?

RAF wanted a reporting workflow that supported the way radiologists naturally interpret studies. Dr. Talukdar described a workflow in which radiologists can dictate findings as they see them, with Rad AI Reporting helping organize that information into a structured, readable report that allows radiologists to spend less attention on report mechanics and more on the study itself.

The decision to switch reporting platforms wasn't based on technology alone. RAF needed a partner willing to understand its requirements, commit to an aggressive schedule and follow through. "What impressed me was not just the technology," Dr. Talukdar said. "I think the technology's great, but it was the willingness to really stand behind a product."

That shared commitment mattered to a physician-led practice seeking to preserve its independence while continuing to grow.

Implementation

RAF needed to move quickly as it worked to unify its imaging environment across the healthcare systems it served. Working closely with RAF's clinical and IT leads, Rad AI brought the first 44 radiologists live just over three months after project kickoff.

Meeting that schedule required detailed planning, close coordination and clear commitments from both teams. RAF and Rad AI worked through implementation requirements early to support the accelerated rollout.

"This is one of those rare instances where a partner came through in a way that exceeded expectations," Dr. Talukdar said. "We met a timeline and met it well."

The transition also created a foundation for continued refinement as radiologists became more familiar with the platform and the teams identified opportunities to improve the workflow.



Measuring the Results

Going live was an important milestone toward RAF's broader goal of helping radiologists meet growing demand with less reporting burden. As radiologists incorporate Rad AI Reporting into their daily workflows, early data shows encouraging improvements in throughput, alongside a positive association between conversational AI usage and individual performance.

Methodology

The analysis compared the first four weeks after go-live (April 20 - May 17, 2026) with the most recent four-week period available (July 13 - Aug. 13, 2026).

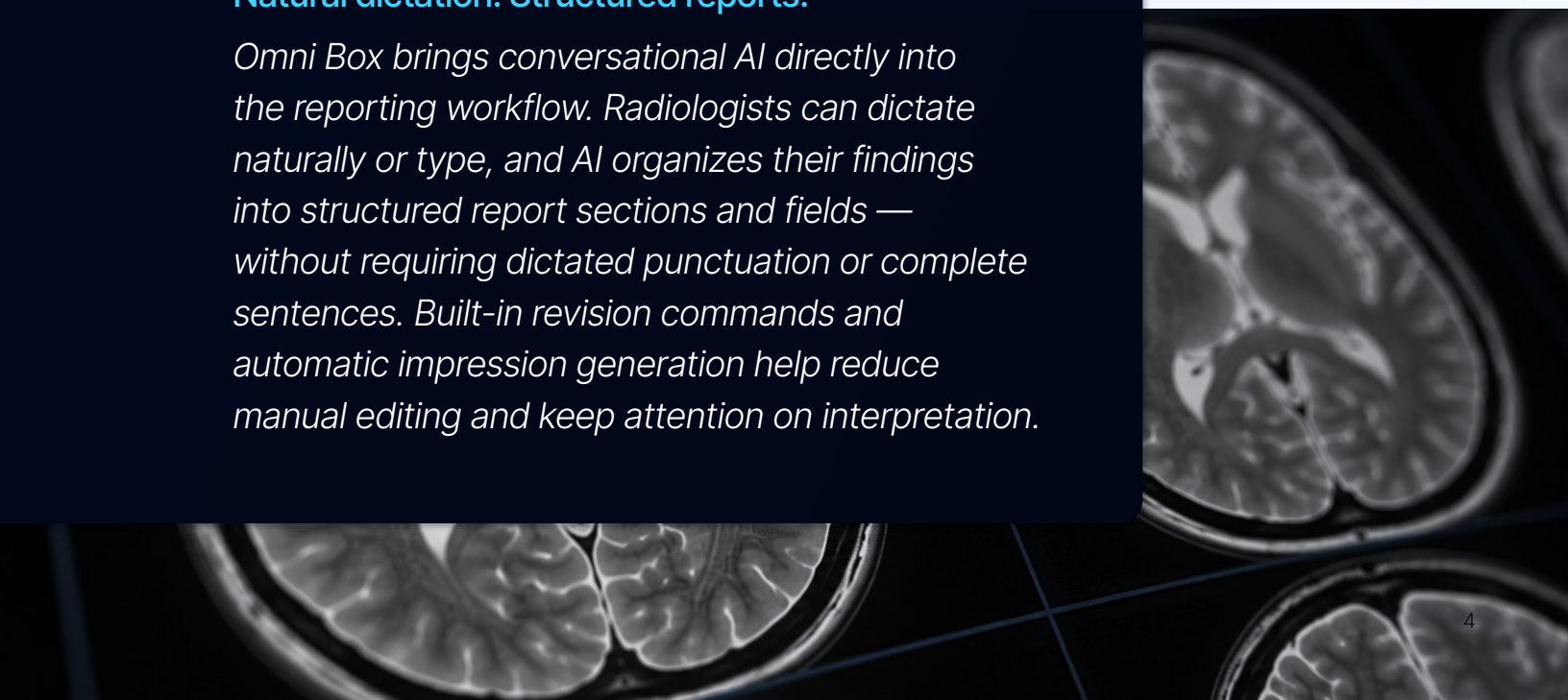
At the system level, it measured pooled median Weighted Read Index per hour (WRI/hour) across all core shifts. WRI weights procedures using procedure code mappings and national Medicare values, providing a proxy for Relative Value Unit (RVU)-based throughput that avoids locality-specific variation and accommodates procedures that can't be precisely mapped to a single RVU.

A separate analysis examined individual performance among 35 radiologists using Rad AI Omni Box, which allows radiologists to dictate naturally while AI automatically organizes their dictation into structured report sections and fields. The analysis measured changes in individual median throughput and assessed whether each radiologist's throughput increased as their Omni Box usage increased.

Both comparison periods occurred after launch, so the findings reflect changes during adoption rather than a before-and-after implementation comparison.

Natural dictation. Structured reports.

Omni Box brings conversational AI directly into the reporting workflow. Radiologists can dictate naturally or type, and AI organizes their findings into structured report sections and fields — without requiring dictated punctuation or complete sentences. Built-in revision commands and automatic impression generation help reduce manual editing and keep attention on interpretation.



Key Quantitative Results

19% higher median throughput

Across the core shifts included in the analysis, the pooled median WRI/hour increased from **4.23 to 5.03** between the first four weeks after launch and the later measurement period — an improvement of approximately **19%**.

63% of evaluated radiologists achieved higher throughput

Within the Omni Box analysis, **63% of the radiologists evaluated (22 of 35) recorded an increase in their individual median WRI/hour** between the comparison periods.

Greater Omni Box usage was associated with higher throughput

The analysis also found that radiologists tended to achieve higher throughput when they used Omni Box more frequently. This relationship was statistically significant, an encouraging finding as RAF continues to expand adoption and refine its reporting workflows.

19%

higher pooled median throughput

4.23 → 5.03 WRI/hour

63%

of evaluated radiologists achieved higher throughput using Omni Box

22 of 35 radiologists evaluated

What the Results Mean for Radiologists

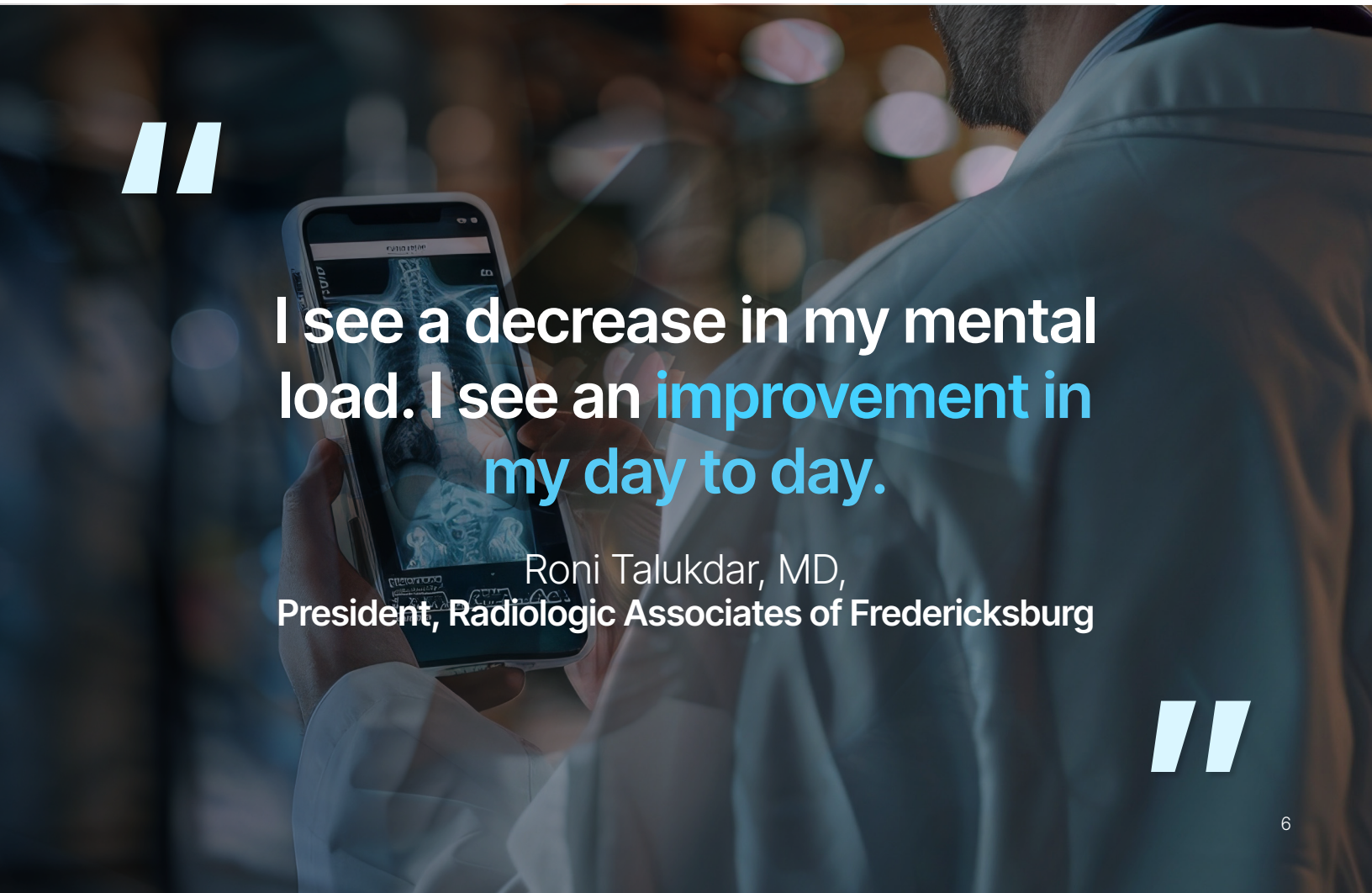
For RAF, meeting growing demand can't mean asking radiologists to keep working harder. Dr. Talukdar's priority is to reduce the reporting "drudgery" that takes time and attention away from interpreting images and applying clinical expertise.

The gains in throughput align with what he said he experiences in his own workday: "I see a decrease in my mental load. I see an improvement in my day to day. I see myself being more efficient."

Dr. Talukdar was also encouraged by how quickly some of RAF's radiologists who were less comfortable with new technology began using Rad AI.

"Some of our less technologically adept users have been able to utilize Rad AI quicker than I would have expected," he said.

For radiologists accustomed to longstanding reporting habits, being able to dictate naturally and then review the resulting report offered a familiar way to work while reducing some of the mechanics around report creation.





Summary

RAF's experience shows how the practice is using its broader technology transition not simply to accommodate growth but to rethink how radiologists work as the organization expands.

The early results suggest improving reporting efficiency as radiologists adopt the platform while Dr. Talukdar's experience highlights the other side of that equation: reducing the mental load associated with creating reports.

"I think Rad AI has made my life better," Dr. Talukdar said. "It's made our practice better."

Learn more about Rad AI Reporting and schedule a demo.

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