



Rad AI

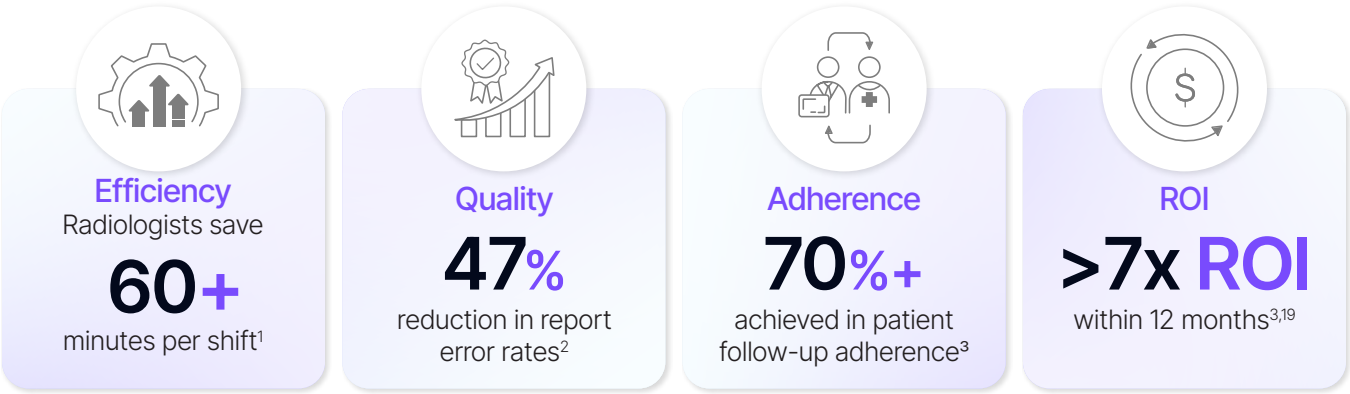
Rad AI Outcomes and Market Impact:

**A Compendium of Real-World
Clinical and Financial Evidence**

Proof Over Promise

Rad AI has established a significant footprint in the U.S. healthcare market, with its solutions currently used by over 11,000 radiologists and 200+ leading healthcare organization customers. This compendium aggregates real-world outcomes data from health systems, academic medical centers and private radiology practices that have deployed Rad AI's suite of generative AI tools: Rad AI Impressions, Rad AI Reporting and Rad AI Continuity.

Across customer sites, four categories of measurable impact consistently emerge:



The evidence presented draws from deployments at Allegheny Health Network (AHN), Cone Health and LucidHealth as well as from radiology practices including ARA Health Specialists, Colorado Imaging Associates (CIA) and Radiology Associates of North Texas (RANT). Supporting data is drawn from additional anonymous academic, university, health system and medical group customers.



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Radiology Is the Backbone of Modern Healthcare and It's Under Strain

Radiology sits at the center of healthcare delivery. Every major diagnosis, treatment plan and care pathway flows through radiology, but the system is under unprecedented pressure.

Surging Demand

Imaging volumes are increasing:

U.S. CT volume increased from roughly 72 million exams in 2007 to ~93 million exams in 2023⁴

U.S. MRI volume grew from about 20 million exams in the early 2000s to roughly 40 million today⁵

A Constrained Workforce

31,800+ job postings versus ~10,180 graduates over the past decade⁶

The radiology workforce is projected to grow only ~3% from 2024-2034⁷

Burnout rates exceed 49%, ranking seventh highest among medical specialties⁸

Radiologist turnover increased 61% in the past decade⁹

Clinical, Financial and Regulatory Challenges

Administrative and regulatory documentation captures up to 5% of a radiologist's professional time¹⁰

Up to 9% of Medicare reimbursement at risk due to documentation gaps¹¹

Only ~30% of recommended follow-ups historically completed¹²

Radiology is no longer a department efficiency issue. It's a capacity, risk and financial stability issue — one that requires workflow-level solutions, not incremental staffing.

Rad AI: Clearing the Path for Radiologists

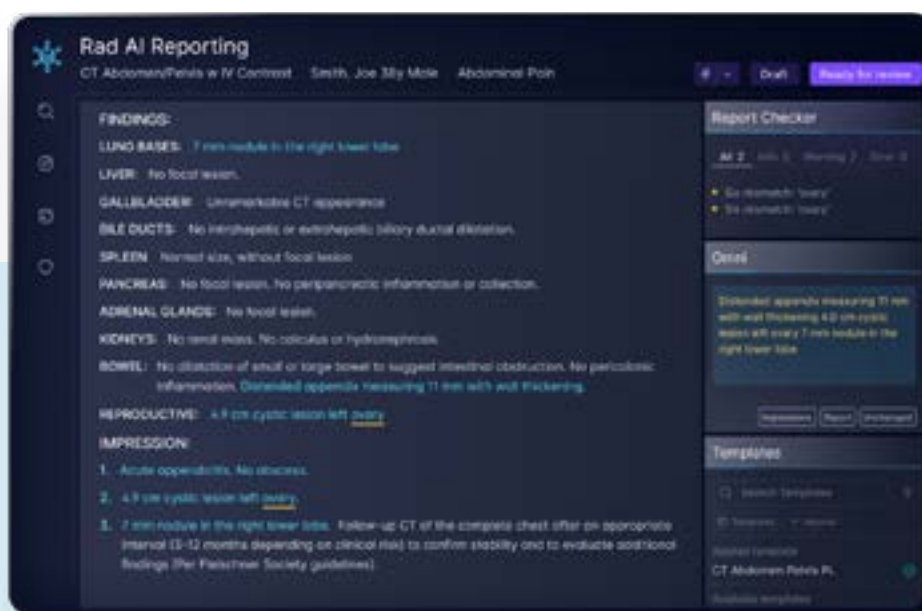
Solving the supply-demand crisis in radiology takes more than extra hands — it takes smarter workflows. Rad AI addresses this through three products designed for flexible, scalable deployment, working independently or as a unified solution. Each targets a different point of friction in the radiology workflow.



Rad AI Reporting: Purpose Built and Future-Ready

Rad AI Reporting is a cloud-native, AI-powered radiology reporting platform that streamlines and automates reporting workflows — improving efficiency, quality, consistency and radiologist experience while reducing cognitive burden.

Built by radiologists, it transforms reporting by automating routine tasks, reducing cognitive load and ensuring reports are accurate, consistent and complete. Radiologists can dictate naturally while AI handles structure, logic and data, instantly converting free-form dictation into structured findings and personalized impressions.



2.1% reduction

in median time-on-report between PowerScribe®
One and Rad AI Reporting (143s vs. 140s,
n=249,017/320,168 reports, p<0.001)¹³

87%

of radiologists reported faster¹³

69% faster report volume

with nearly seven in 10 procedure categories
showing statistically significant improvements in
reporting time¹³

267 hours

of net time savings (~33 clinician-days)
across the compared report population¹³

Rad AI Impressions: Proven, Trusted and Personalized AI

Rad AI Impressions is an AI-powered capability that automatically generates the impressions section of radiology reports from dictated findings — matching each radiologist's voice and style.

Trained on hundreds of millions of radiology reports and personalized to each individual radiologist, Rad AI Impressions was the first generative AI solution in healthcare. Today, it's used by more than 11,000 radiologists across 200+ healthcare organizations, helping them save time, drive efficiency and reduce their cognitive load.



11% boost
in RVU productivity
per shift¹⁵

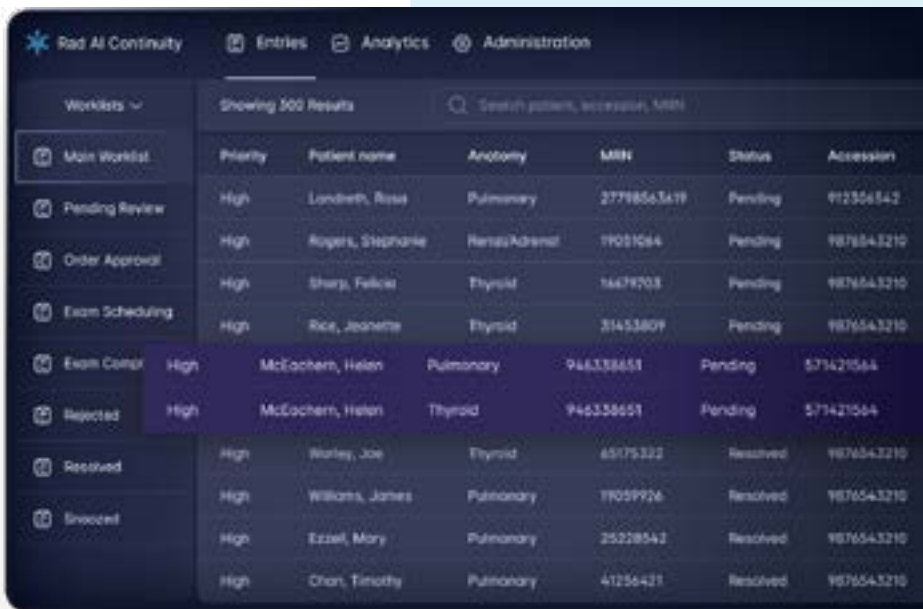
6% drop
in CT report
turnaround time¹⁵

80% reduction
in impression words
dictated per report¹⁶

Rad AI Continuity: Closing the Loop on Patient Care

Rad AI Continuity is an AI-powered imaging follow-up solution that automatically detects, communicates and tracks follow-up recommendations from radiology reports. Trained on nearly a billion radiology reports, it identifies recommendations for additional imaging and their recommended timeframes — even when buried in narrative text or embedded within complex guideline references — and transforms them into structured care workflows.

Approximately 12% of radiology reports contain a recommendation for additional imaging^{17,18}, yet 30–70% of those recommendations are never completed, contributing to delayed diagnoses and missed opportunities for care.¹⁷ By automating patient and provider outreach, tracking follow-up completion and surfacing outstanding recommendations, Rad AI Continuity helps healthcare organizations close the loop on imaging follow-up, improve adherence, enhance patient outcomes and deliver a measurable return on investment.



The screenshot shows the Rad AI Continuity interface with a sidebar menu on the left containing options like Main Worklist, Pending Review, Order Approval, Exam Scheduling, Exam Compl, Rejected, Resolved, and Snoozed. The main area displays a table of results with columns for Priority, Patient name, Anatomy, MRN, Status, and Accession. The table lists several patients with 'High' priority and 'Pending' status, including Londrith, Ross; Rogers, Stephanie; Sharp, Felicia; Rice, Jeanette; McEachern, Helen (listed twice); Worley, Joe; Williams, James; Ezzeil, Mary; and Chan, Timothy.

Priority	Patient name	Anatomy	MRN	Status	Accession
High	Londrith, Ross	Pulmonary	27798543419	Pending	9876543210
High	Rogers, Stephanie	Renal/Adrenal	19051064	Pending	9876543210
High	Sharp, Felicia	Thyroid	16679203	Pending	9876543210
High	Rice, Jeanette	Thyroid	31453809	Pending	9876543210
High	McEachern, Helen	Pulmonary	946338651	Pending	571421064
High	McEachern, Helen	Thyroid	946338651	Pending	571421064
High	Worley, Joe	Thyroid	65175322	Resolved	9876543210
High	Williams, James	Pulmonary	19059926	Resolved	9876543210
High	Ezzeil, Mary	Pulmonary	25228542	Resolved	9876543210
High	Chan, Timothy	Pulmonary	41256421	Resolved	9876543210

Up to **2x**
improvement in
follow-up adherence³

Helped identify
100+ high-risk
patients for new cancers
after go-live, for a
site doing 500,000
exams annually³

7x ROI
driven by improved
follow-up rates^{3,19}

Outcomes by Impact Highlights

The following section consolidates outcomes data across all deployments — organized by operational efficiency, clinical quality and financial performance — followed by the full evidence set and real-world case studies.

Operational Efficiency

Time savings are the most consistently documented outcome across all Rad AI deployments. The efficiency gains derive primarily from two sources: reduced report creation burden (Rad AI Impressions and Rad AI Reporting) and automated follow-up management (Rad AI Continuity).



60+
minutes

Radiologists save a median of 60+ minutes per 9-hour shift¹



80%
reduction

in dictated words per impression¹⁶



11%
boost

in RVU productivity per shift¹⁵



60%
reduction
in reporting time

Top decile radiologists reduced reporting time by 60%, saving more than one minute per report¹⁴



48%
increase

in radiograph efficiency during overnight ICU and Level 1 trauma center shifts²⁰



2,035
hours

of radiologist time recovered across all modalities in a single year by a 100-radiologist practice²¹

What this means for a practice of 70 radiologists

Even a modest 10% reduction in reporting time reclaims approximately 280 hours of physician time per week — the operational equivalent of adding nearly six full-time (FTE) radiologists without a single new hire.

Clinical Quality

Quality improvements are documented across two areas: report accuracy (catching errors before sign-off) and care continuity (ensuring recommended follow-up is completed).

47%

reduction in clinical error rates in impression²

Up to **2X**

increase in patient follow-up adherence³

Up to **92%** of the time, radiologists accept automatically generated impressions without change²²

In **~5%**

of reports, radiologists return to the findings section to correct a clinically significant error, uncovered while reviewing the automatically generated impressions¹



What this means for a practice of 40 radiologists at 80+ wRVUs/day

That's approximately 450,000 impressions annually. In roughly 5% of those — 22,500 times a year, or 90 times every working day — a radiologist catches a clinically significant error in their own findings before it reaches the referring physician. Not a near-miss flagged in retrospect. A correction made in the moment, before sign-off.

Financial Performance

The financial case for Rad AI is driven by two complementary mechanisms: the value of recovered radiologist time, and the direct revenue impact of closing the follow-up gap.



>7x ROI

within the first 12 months of Rad AI Continuity deployment^{3,19}

Created ~43,400

additional RVUs annually — equivalent to 2.7 FTE radiologists — from efficiency gains alone using Rad AI Impressions²¹

An 11%

increase in RVU productivity per shift within one month of adopting Rad AI Impressions¹⁵

A 25%

increase in hourly RVU output with Rad AI Reporting²⁰

What this means for 500,000 annual scans

Modeling on a site that performs 500,000 annual scans, with a patient adherence rate of around 40%, Rad AI Continuity demonstrated that it would increase follow-up adherence to above 70%, capturing approximately 8,500 incremental run-rate exams, resulting in an estimated \$2.8 million in annual revenue gain with \$1.4 million in operating margin improvement.

Case Studies

Allegheny Health Network (AHN)

Facility Type: Health System

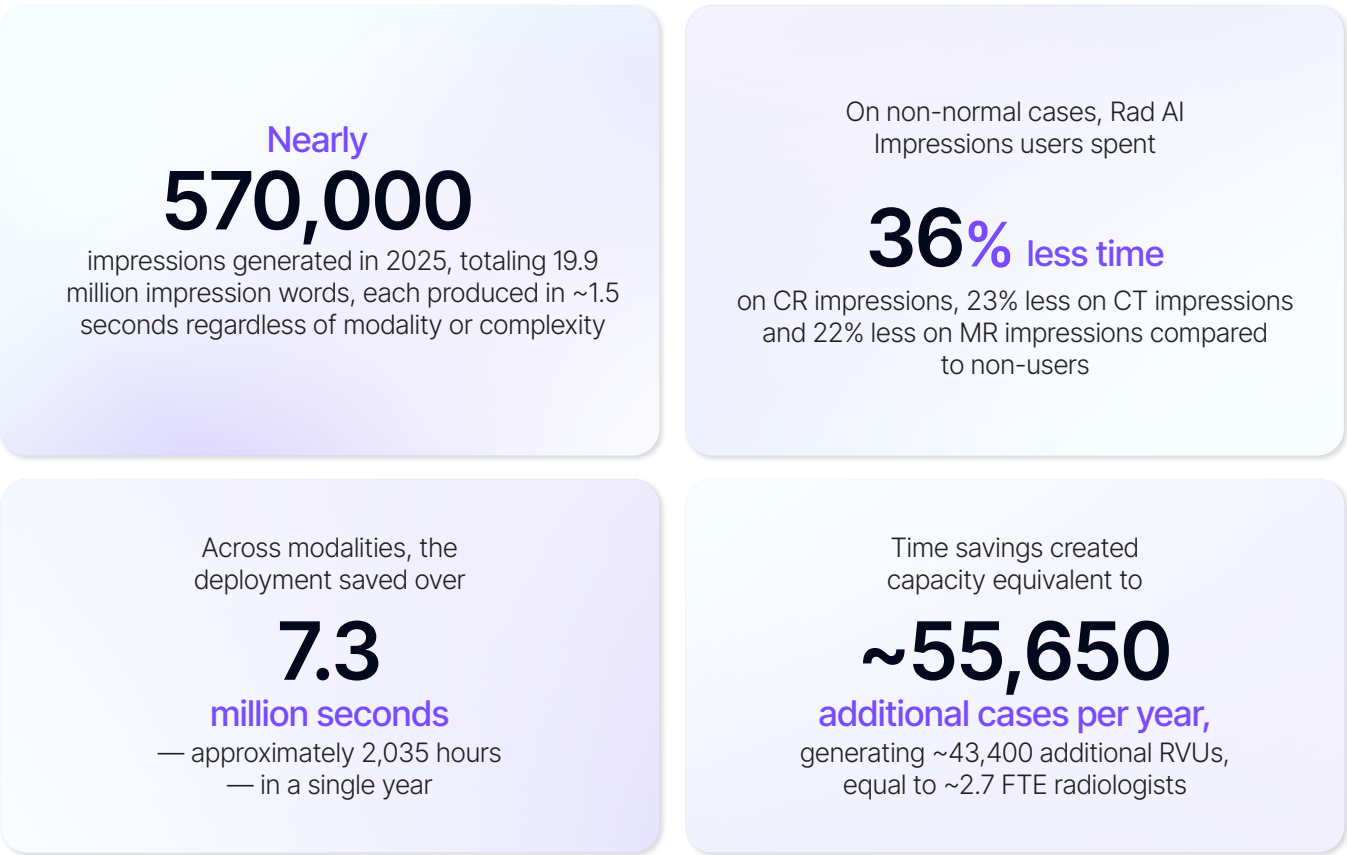
Product(s) Deployed: Rad AI Impressions

Deployment Scale: 108 radiologists generated impressions in 2025, with an average of 97 active users at any given time.

Background

AHN is a large multi-site health system facing the compounding pressures of high imaging volume and limited capacity growth. The analysis covers January through November 2025, measuring Rad AI Impressions impact across modalities. Notably, the data reflects only 40% of system exam volume — expanding deployment to full volume is projected to increase ROI by an additional 50%.

Quantitative Outcomes



Case Studies

ARA Health Specialists

Facility Type: Radiology Practice

Product(s) Deployed: Rad AI Reporting

Deployment Scale: 70+ physicians across 30+ locations

Background

In February 2025, ARA Health Specialists transitioned from Microsoft PowerScribe® 360 to Rad AI Reporting. To measure real-world impact, the team compared the same three-month window year-over-year — August through October 2024 versus 2025 — using time on report as the primary metric, with outliers statistically removed.

Quantitative Outcomes

79%

of radiologists demonstrated improved efficiency, defined as a reduction in median time on report adjusted for case-mix changes

20%

median reduction in reporting time, equivalent to an average 20-second decrease per study across CR/DR, CT, MG, MR, NM and PET

Median time on report reduced to

102.5
seconds

Top decile radiologists reduced

reporting time by

60%

saving more than 60 seconds per report

61

of the top 100 highest-volume procedures showed faster, more consistent interpretations

"Rad AI Reporting's AI features allow me to focus more on the images and less on the editing of the report. This increases my efficiency and decreases mental fatigue."

Devon Cole, MD

Advanced Body Imaging, ED/Trauma Imaging and General Radiology at ARA Health Specialists

Case Studies

Colorado Imaging Associates (CIA)

Facility Type: Private Radiology Practice

Product(s) Deployed: Rad AI Impressions

Deployment Scale: 48 radiologists. Impact analysis based on pre- and post-implementation data from 21 radiologists. Partnership began July 2023.

Background

Facing rising exam volumes and the risk of radiologist burnout, CIA sought a solution that could streamline reporting without compromising accuracy. The practice analyzed pre- and post-implementation data across 21 radiologists to quantify impact.

Quantitative Outcomes

80% reduction

in dictated words
per impression
(from 67 words to 15)

30%

overall reduction in impression
generation time (from 30
seconds to 21 seconds per
report), with impressions
generated in 1–3 seconds

40% reduction

in MRI impression times (50
seconds to 29 seconds); 30%
reduction in CT (52 seconds
to 37 seconds); 20% reduction
in ultrasound and CR

One radiologist said
they handled **5-10%**

more cases per day while reporting feeling less tired.

The practice also noted an unexpected quality benefit: misstatements in the findings section were surfaced by Rad AI Impressions, prompting correction before sign-off.

Qualitative Impact

"Rad AI takes care of about 99% of that work [of vocalizing findings into report form]. With that 5–10% increase in productivity, I feel palpably less tired and burned out at the end of a workday doing 5–10% more."

Kevin Woolley, MD
FACR, CIA Radiologist

Case Studies

Cone Health (including Moses Cone Hospital)

Facility Type: Health System

Product(s) Deployed: Rad AI Continuity, Rad AI Impressions

Deployment Scale: Rad AI Continuity deployed at scale covering 500,000+ exams per year, managing up to 50,000 recommendations for additional imaging annually with a single FTE nurse navigator.

Background

Cone Health identified a significant gap in its follow-up care pathway: With only ~40% of recommended follow-up imaging being completed, the health system faced both patient safety risk and substantial unrealized revenue. The total follow-up pipeline opportunity was estimated at \$9.5 million annually. Cone Health deployed Rad AI Continuity to automate detection, tracking and outreach to providers and patients across its full exam volume, without adding clinical staff.

Quantitative Outcomes (Continuity)

Follow-up adherence
increased from 40%
to 70%+ —

a **30%** gain

— with demonstrated
resolution rates of up to
90%+ in some cases

\$2.4 million

in incremental annual revenue
and \$1.7 million in net profit
captured against a
\$9.5 million total follow-up
pipeline opportunity

One FTE nurse navigator
manages

500,000+

exams and up to 50,000
recommended imaging
follow-ups per year

"It's been a big help to me and I make fewer mistakes ... I'm much happier and less burnt out on the days when I can use Rad AI [Impressions]."

Steve Reid, MD

Head of Women's Imaging at Moses Cone Hospital

Case Studies

LucidHealth

Facility Type: Radiology Practice

Product(s) Deployed: Rad AI Impressions, Rad AI Reporting

Deployment Scale: Initial deployment in April 2024 with 10 radiologists at Radiology Associates of Fox Valley (RAFV), a Wisconsin-based practice within the LucidHealth network. Top adopters incorporated Rad AI Impressions in over 80% of reports. As of January 2025, 300+ physicians across 140+ healthcare facilities in six states are using Rad AI.

Background

The practice began its Rad AI relationship with Rad AI Impressions, deliberately starting small to build radiologist trust before expanding. Following strong early results at RAFV — with efficiency gains materializing within weeks of deployment — LucidHealth scaled across its Wisconsin practices and has since transitioned all practices to Rad AI. The outcomes below reflect the initial Rad AI Impressions deployment at RAFV only.

Quantitative Outcomes

11% increase

in RVU productivity per shift,
measured less than one month
after adoption

6%

overall reduction

in CT exam report turnaround
times, with individual modality
improvements of 7% for CT
Abd/Pelvis, 6% for CT Chest
and 5% for CT Brain

Some radiologists
achieved

up to **40%** faster

CT report
turnaround times

Qualitative Impact

Radiologists reported
reduced mental fatigue
and improved focus

Physicians reported
preferring to work at
hospitals using Rad AI

"Rad AI gives me a 25–30% efficiency boost on CT, MR and PET reads, and even reduces liability risk when I'm pulled away mid-case, compiling all the key findings into the impression so I can pick up right where I left off."

Daniel Macksood, MD
RAFV Radiologist

Rad AI. (2025). [LucidHealth scales use of Rad AI after seeing double-digit productivity gains.](#)

Case Studies

Radiology Associates of North Texas (RANT)

Facility Type: Strategic Radiology Practice

Product(s) Deployed: Rad AI Reporting

Deployment Scale: Study comparing Rad AI Reporting versus legacy software during overnight ICU and Level 1 trauma center shifts.

Background

RANT evaluated Rad AI Reporting in one of the most demanding clinical environments: overnight ICU and Level 1 trauma center reading. This setting provided a high-acuity, high-volume stress test of the platform's ability to drive efficiency under pressure.

Quantitative Outcomes

48% increase

in radiograph efficiency (more radiographs read per hour)

25% increase

in hourly RVU productivity

Qualitative Impact

Radiologists reported measurable reductions in perceived mental effort and fatigue during high-acuity overnight shifts

"This is clearly the future of AI in radiology. I've now had the same 'wow' experience with Rad AI Reporting, but at an even greater scale. It's another game changer."

Nicholas Galante, MD
CMIO, RANT

Academic and University Deployments

University Client (Unnamed)

Facility Type: University Health System

Product(s) Deployed: Rad AI Impressions

Deployment Scale: 250 radiologists; 1.58+ million impressions generated (at time of analysis), averaging ~60,000 impressions per month.

Quantitative Outcomes

Reduced manual impression generation time from an average of 76 seconds to

55 seconds

Average time savings of 21 seconds, representing a

27% improvement
in speed



Rad AI. (2024). Large university health system in the Midwestern U.S. Internal workflow analysis. Data on file.

Medical Group Deployments

Mid-Atlantic Permanente Medical Group (MAPMG)

Facility Type: Medical Group

Product(s) Deployed: Rad AI Impressions

Deployment Scale: Performance metrics tracked specifically among the group's power users.

Quantitative Outcomes

Power users spent
50% less time
on impressions,
averaging ~20 seconds
saved per report

Manually dictating
80.1%
fewer words

Aggregated to roughly
100 hours
of time saved per
radiologist annually



Publications

Comparison of AI-Generated Radiology Impressions: A Multi-Stakeholder Evaluation

Journal: npj Digital Medicine (2026)

DOI: <https://doi.org/10.1038/s41746-026-02586-6>

Authors: Phadke S, Suresh N, Allen Z, Balagopal A, Chan S, Shah A, Winter M, Lam C, Rose T, Araujo C, Ahmed A, Imanirad I, Berland L, Del Gaizo A

Operational Efficiency

To evaluate the clinical quality of AI-generated radiology impressions across multiple stakeholder groups, comparing a domain-specific custom AI model (Rad AI Impressions) against original radiologist-authored impressions and a general-purpose large language model (GPT-4.1).

Study Design

Retrospective, blinded evaluation conducted at Moffitt Cancer Center. All reports were deidentified prior to analysis.

Materials and Methods

Two hundred oncologic CT reports were evaluated, interpreted by four attending abdominal radiologists. Three impression versions were generated for each report: the original radiologist-authored impression; a Rad AI Impressions custom model fine-tuned on each radiologist's historical reports; and a GPT-4.1 impression using a structured zero-shot prompt.

Ten blinded clinicians — original authoring radiologists (n=4), independent radiologists (n=3) and oncologists (n=3) — rated impressions on completeness, correctness, conciseness, clarity, clinical utility and patient harm potential. Evaluations were conducted at least six months after the data cutoff to minimize recall bias.

Selected Results

- Independent radiologists showed no meaningful preference between Rad AI Impressions and original radiologist impressions (Cohen's $h = 0.03$, $p = 0.78$), indicating the custom model achieved effective clinical parity with human-authored impressions.
- Both original and independent radiologists strongly preferred Rad AI Impressions over generic LLM impressions (Cohen's $h = 0.66$ – 1.04 , $p < 0.001$).
- Rad AI Impressions were generated in a mean of 1.9 seconds versus 11.6 seconds for the generic model.

- Custom model impressions matched original impressions in conciseness (34.2 versus 41.2 words on average), while generic model impressions were significantly longer (75.1 words) and rated markedly less concise ($r = 0.85\text{--}0.87$, $p < 0.001$).
- Patient harm ratings were uniformly low across all impression types, with no clinically meaningful differences between human-authored and AI-generated impressions among either radiologist group.

Conclusion

Domain-specific fine-tuning enables AI-generated radiology impressions to achieve quality and safety comparable to human-authored impressions. Generic large language models, despite improving reasoning capabilities, don't inherently replicate the stylistic and institutional conventions that determine clinical acceptance. The findings support AI-generated impressions as flexible drafting tools that reduce cognitive load while preserving clinician oversight and control.

[READ PAPER](#)

Technical and Compliance Overview

Cloud-Native Architecture

Rad AI is delivered as a fully managed, cloud-native SaaS platform with a minimal on-premises footprint. That means faster deployment, less infrastructure to maintain and fewer IT resources tied up in ongoing support.

Interoperability

Rad AI integrates with the PACS, RIS, EHR and other core systems practices already use, fitting into existing workflows without forcing an all-in-one vendor approach. Customers get the benefits of modern AI while preserving flexibility across their existing technology stack.

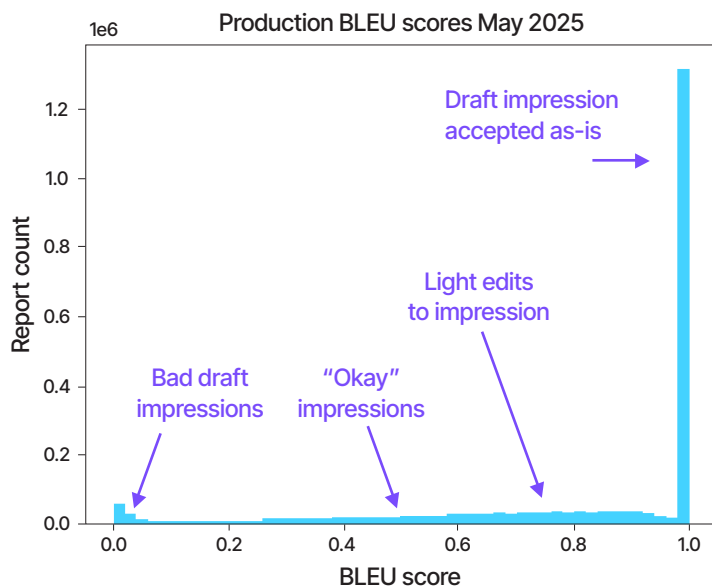
Model Performance

The seventh-generation Rad AI Impressions model achieves a 54% "zero-edit" acceptance rate. Models are trained on nearly a billion radiology reports across 200+ health systems. AI is fine-tuned to the specific style and language preferences of individual radiologists.

V7 Product Performance

>0.5 BLEU (80%): Acceptable

>0.75 BLEU (67%): Great Draft



Security and Compliance

Rad AI maintains a strong security and compliance posture built for healthcare. We maintain HIPAA compliance, protect data with encryption in transit and at rest, and apply role-based access controls, MFA and audit logging to help safeguard PHI.

Customers can access additional security documentation — including HIPAA materials, SOC 2 Type II documentation and penetration-testing summaries — through our Trust Center at trust.radai.com.

Regulatory Classification

Independent regulatory reviews and direct FDA feedback have confirmed that Rad AI's products aren't currently classified as medical devices. The products maintain clinician oversight throughout the reporting process and don't perform autonomous image interpretation. As workflow and documentation management tools, they don't currently require FDA clearance.

Rad AI by the Numbers

- 50%+ share across the U.S. radiology market
- 200+ health organization customers across thousands of sites
- 11,000+ active radiologists generating approximately generating over 4 million impressions monthly
- 49 million impressions automatically generated in the past 12 months — totaling over 1.89 billion words
- 1,000+ active radiologists generating 720,000 reports monthly, with a growth rate of 12-15%
- 290,000 patients tracked for follow-up recommendations with Rad AI Continuity
- Models trained on nearly a billion radiology reports, fine-tuned to the individual style of each radiologist
- Multiple industry awards, including CNBC Disruptor 50, the Deloitte Fast 500 (No. 36), two-time Inc. 5000 (Nos. 107 and 426), Fast Company's Most Innovative Companies (No. 5, Emerging Enterprise) and TIME's World's Top HealthTech Companies (2025 and 2026)
- Top 5 AI partner under consideration per KLAS Research, alongside Epic, Microsoft, Oracle Health and Workday
- First industry partner for RSNA Ventures
- Nearly \$150 million in total funding raised
- Team doubled in 2025, adding 114 Radineers across 36 states and five countries
- 50% of staff dedicated to product management, engineering and machine learning operations
- 15 radiologist employees and advisors

Built for Radiology

Most large healthcare technology companies have a radiology department. We built an entire company around it. That difference matters. When radiology is one of many priorities, the technology is designed to work across everything. In practice, radiologists are adapting to the system, and patients fall through the cracks. Follow-ups slip, recommendations in reports aren't always acted on and critical findings don't consistently translate into timely care.

Rad AI is built entirely around the reality of the reading room. Founded by radiologists and used by them every day, our focus is singular. The technology adapts to how radiologists think, speak and practice. Not the other way around.

The outcomes in this compendium reflect that focus. Every minute saved, every error reduced and every follow-up closed comes from a platform purpose-built for radiology, refined across seven model generations and nearly a billion reports.

We can show you what this looks like in practice.

BOOK A DEMO

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