

Unlock the power of AI from point-of-read to point-of-care

Drive improved radiologist productivity, financial performance, and patient care with third-party imaging AI models available through Precision Imaging Network.

With billions of images scanned yearly, radiologist workloads are rising, but their numbers aren't. There's just one radiologist per 10,000 patients in the US¹, and this ratio isn't improving. Medical imaging AI models show promise in addressing this challenge by assisting radiologists with image interpretation and report creation. **Precision Imaging Network**, part of Microsoft Cloud for Healthcare, streamlines access to a collection of third-party AI models for a range of imaging modalities and specialty areas. A single, integrated platform combines with an award-winning image sharing infrastructure and the scale, security, and strength of Azure to enable the delivery of AI findings that support radiologist efficiency and diagnostic precision.

Simplify your medical imaging AI strategy

Move images to the cloud using reliable connections and enable the processing of large volumes of data. A single point of access can limit security risk, simplify deployments, and maximize flexibility. Unlike extensive IT projects, implementation can be complete in as few as six weeks. With the foundation in place, adding more algorithms takes minimal time, effort, resources, and paperwork. Radiology teams and specialists can review and evaluate AI models performance without significant investments in time and effort.

Optimize workflows and support radiologist productivity

Third-party triage AI models identify images with critical findings, seamlessly integrate with existing prioritization configurations, and intelligently organize the worklist to help ensure the most urgent cases are read first. AI findings from third-party AI models and secondary captures that highlight abnormalities assist radiologists with detection and measurements. By delivering AI insights into the radiology workflow, Precision Imaging Network helps improve radiologist efficiency, accuracy, and confidence.

Turn complex data into actionable findings to help advance patient care

Flexible configurations and comprehensive offerings mean organizations can run multiple AI models on a single exam or fetch and run AI on previous studies. These third-party AI findings can support early detection and intervention.

BENEFITS

- **Centralized access** to an extensive ecosystem of third-party AI models helps reduce security risks and simplify expansion of AI.
- **Configurable workflows** allow thoughtful and pointed use of AI models as well as validation, testing, and comparisons of AI models performance.
- **Dedicated account management and implementation teams** promote successful AI model adoption, use, and optimization.

45 days²

Baptist Health deployment
time for first AI model.

Subsequent models took 10-30 days.

When AI sees what the human eye might miss, organizations can identify more patients with subtle abnormalities, biomarkers, or changes in condition. Earlier diagnoses can make treatments more effective and prevent the need for more complicated procedures—potentially improving outcomes and lowering costs.

Benefit from end-to-end diagnostic solutions

Although an agnostic solution with wide-ranging interoperability with reporting, PACS, VNA, EHR, and other clinical systems, Precision Imaging Network complements Microsoft's end-to-end diagnostic portfolio. PowerShare-connected facilities already have its infrastructure in place. A unified, AI-powered ecosystem can advance organization performance with intelligent worklist prioritization, notifications of prior imaging and reports, clinical guidance, actionable data, and the ability to share imaging insights across care teams.

- **Help shorten time to care** with real-time critical result notices and workflow prioritization from third-party AI models.
- **Support radiologist productivity** with third-party AI insights that assist with image interpretation and allow automatic insertion of AI-generated insights into reports.
- **Promote better patient care** when specialists receive consumable reports and imaging data that help inform clinical decisions, treatment planning, and personalized care plans.
- **Drive improved patient follow-up tracking and program management** by extracting and tracking follow-up recommendations from screenings and for incidental findings.
- **Validate and monitor third-party or in-house developed AI model performance** by assessing concordance between AI findings and radiology reports.
- **Enable data privacy, protection, and compliance** with the solid foundation of Microsoft security culture and governance.

Precision Imaging Network helps organizations advance their AI strategy by offering cost-effective management of an array of complex AI models—while benefiting from Microsoft security and infrastructure. By harnessing third-party imaging AI, organizations can promote efficiency, advance quality, and improve patient care.

LEARN MORE

For more information about Precision Imaging Network, please visit aka.ms/imagingAI.

MEDICAL DEVICE DISCLAIMER. Microsoft products are not designed, intended or made available as a medical device(s) and are not designed or intended to be a substitute for professional medical advice, diagnosis, treatment, or judgment and should not be used to replace or as a substitute for professional medical advice, diagnosis, treatment, or judgment.

"Precision Imaging Network is designed to help healthcare organizations, regardless of size, participate and lead in an AI revolution. Its framework facilitates effective and seamless integration of imaging AI models that can help them deliver better patient care."

— Reza Forghani, MD, PhD
Neuroradiologist and medical AI expert

Endnotes

- 1 [Radiologist among the 6 highest-paying jobs in America](#) May 01, 2023 | Radiology Business
- 2 Baptist Health stat presented by Brett Oliver, MD at a Scottsdale Institute webinar, "Accelerating AI For Maximum Impact on Patient Care," on March 6, 2024.