

# Nuance Precision Imaging Network for breast health

Unlock the power of AI from point-of-read to point-of-care. Promoting more seamless workflow capabilities, data sharing at scale, and greater stakeholder connectivity.

From screening through follow-up management, AI applications have proven essential in the effort to promote earlier detection of breast cancer. The Nuance Precision Imaging Network (PIN) facilitates radiologists' ability to deliver more quantitative, condition-related information to imaging stakeholders by providing access to a wide range of advanced breast imaging capabilities.

Through Nuance PIN, imaging stakeholders take advantage of an ever-growing selection of AI solutions. Seamlessly deployed in the radiology workflow, PIN enables multidisciplinary teams to use AI insights to help improve patient care and throughput. Together, these capabilities foster greater confidence and help advance quality assurance and compliance processes across the healthcare organization—including those related to specific mammography performance goals.

## Intelligent imaging

CAD-based AI-powered information delivered through PIN to radiologists helps enable a more personalized patient centric approach for both 2D and 3D mammography. Users can access imaging insights that display findings and automatically characterizes them using an easy-to-read scale of 1-10 with green/yellow/red color coding—the higher the score, the higher the level of suspicion. Additionally, imaging priors can be incorporated for the further evaluation of findings.

Mammography analytics software, supported by PIN, can assist breast health programs with efforts to comply with FDA MQSA EQUIP using a standardized clinical image quality evaluation for all mammograms. These insights can also be used to help promote proper patient positioning techniques, tailor corrective actions while the patient is still in the exam room and identify additional training opportunities for technologists.

## Integrated workflow

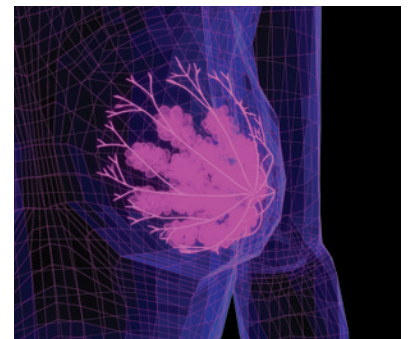
PIN delivers AI-powered capabilities designed to help radiologists improve diagnostic performance and support breast cancer detection—all without requiring additional clicks or prolonging workflows. Through PIN, radiologists can access deep learning model information that incorporates quantitative

---

## HIGHLIGHTS

### PIN delivers AI insights to care teams to support multiple breast cancer screening initiatives:

- Aids in automatic identification and characterization of findings.
- Incorporates prior mammogram images when considering present mammogram screening.
- Supports reproducible and standardized breast density reporting that aligns with ACR BI-RADS 5th Edition guidance.
- Improves EQUIP image quality review workflows for MQSA compliance.
- Uses risk information to inform tailored breast cancer screening protocols.



percent mammographic density with a qualitative 4-category breast density scale to align with ACR BI-RADS® Atlas 5th Edition requirements.

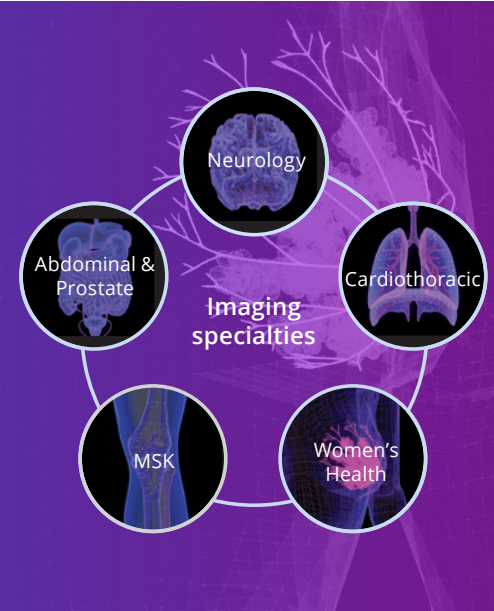
### Informed patient care

AI insights delivered through PIN can assist radiologists in creating a patient-specific personalized risk scorecard including breast cancer risk, breast density assessment results, and other key risk factors. This supports follow-up recommendations in alignment with ACR guidance. Collectively, these AI capabilities for breast cancer screening use information at the breast, lesion, and mammogram level to support early breast cancer detection while maintaining a focus on quality, safety, and efficiency.

### One platform to advance an enterprise-wide AI strategy

While AI-powered solutions can help bridge medical information silos and deliver improved patient outcomes, success requires a thoughtful, strategic approach. Too often, when hospitals and healthcare organizations struggle with multiple integration points and contracts, IT burdens and security risks, and cumbersome workflows, or lack appropriate model performance tracking, it can be difficult to achieve AI's full potential.

The Nuance Precision Imaging Network™ (PIN) was created to deliver more value to all imaging stakeholders through seamless hosting, integration, and management of partner AI services using a single data-driven platform. Together, we are connecting point-of-read to point-of-care by combining Nuance's industry-leading PowerScribe vast reporting workflows and PowerShare image-sharing infrastructure with the scale, security, and strength of Microsoft Azure.



### LEARN MORE

Learn more at [nuance.com/PIN](https://nuance.com/PIN)



#### About Nuance Communications, Inc.

[Nuance Communications](https://www.nuance.com) is a technology pioneer with market leadership in conversational AI and ambient intelligence. A full-service partner trusted by 77 percent of U.S. hospitals and more than 75 percent of the Fortune 100 companies worldwide, Nuance creates intuitive solutions that amplify people's ability to help others. Nuance is a Microsoft company.