Breast AI package
Powered by RUBEE™

Embedded intelligence, supporting the clinical workflow
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RUBEE™ for AI and the significance of the Enterprise Imaging platform

Healthcare systems across the globe are exploring the potential application and benefits of Artificial Intelligence when it comes to improving quality care, focused on outcomes. The path towards realizing the benefits opens another opportunity: addressing the interoperability and integration aspects. Already, there are hundreds of start-ups and AI developers working in the healthcare arena, each focusing on highly specific applications. Selecting which ones you need, and then integrating them into your system and workflows is far from simple!

RUBEE™ for AI, as part of your Enterprise Imaging platform, offers a seamless AI experience for your clinicians. Carefully curated ‘packages’ embed best-of-breed AI apps that work seamlessly to support your real clinical workflow from start to finish.

With RUBEE for AI, you get more out of your AI investments, while enriching the value of your Enterprise Imaging. It’s a win-win-win for your hospital, your clinicians and your patients!

What is RUBEE for AI?

With RUBEE for AI, you can embed our AI specialty packages into your clinical workflows.

RUBEE visualizes the metadata generated by algorithms such as deep learning, machine learning, image analysis and natural language processing. It also uses that information to automate and optimize your workflows, all within your Enterprise Imaging ecosystem.

Forward-thinking and clinically relevant

‘Augmented Intelligence’ does just that: offering a set of tools that let your clinicians maximize the value of their own expertise, increase their productivity and enhance the diagnostic process. But to get the real benefits to your clinicians, the tools need to be embedded right into the workflows and systems they use every day.

Your Enterprise Imaging already offers a forward-thinking, multi-specialty platform that consolidates your hospital’s wealth of data. With RUBEE for AI, it also becomes your AI enabled ecosystem.

Standards-based workflows are embedded with niche and specialty-focused AI apps, delivering clinical relevance. No need for an additional, complex and costly dedicated AI platform or marketplace. And, instead of worrying about which apps to select and how to integrate them, you are leaping ahead with an ecosystem of seamlessly embedded AI.
Best-of-Class AI apps,
Specialty Packages

We have taken the guesswork out of your AI journey. Our AI specialty packages have been carefully curated to enable interoperability and integration of best-of-class algorithms. You can be confident that all the algorithms come from reliable companies, and trained on evidence-based data.

Most of all, they are powered by RUBEE for AI, to help meet your specific clinical needs from start to finish. So, there’s no ‘trial and error’: just proven value.

Enrich your Enterprise Imaging workflows

With AI fully embedded in your Enterprise Imaging platform, your clinicians see benefits all along the line.

- Task assignments and case distribution are smoothly automated, based on the metadata generated from the AI apps.
- Hanging protocols get ‘smart’, with dedicated reading protocols.
- Report automation by auto-including AI results into the reporting workflow.

Offering advanced visualizations, workflow optimization and automation, RUBEE for AI helps your clinicians to focus their efforts on cases that require immediate attention.
Breast AI package

Offering decision support

While breast cancer rates are rising globally, so are survival rates. Early detection is key to positive outcomes, and are imaging is an essential part of screening. All of which puts imaging at center stage.

But the vast demand for breast imaging also puts serious pressure on radiologists. Not only are they faced with increasing caseloads, but they also need to avoid inconsistent results, quickly sort and prioritize cases, and benefit from assistance from evidence-based AI applications.

Agfa HealthCare’s Breast AI package is embedded in your Enterprise Imaging solution, is a workflow-centric, evidence-based AI package that lightens the radiologist’s load. It offers advanced visualizations, workflow automation and optimization, and decision support – all dedicated to the needs of breast imaging.

A faster workflow, with smart, automated triage

Combining the Breast AI package with the workflow features of RUBEE for AI, offers radiologists not only advanced visualizations, but also workflow automation and optimization.

By intelligently sorting and rating images using a deep learning algorithm, automated task prioritization, smart display of findings and dedicated reading protocols, Agfa HealthCare’s Breast AI package (RUBEE for AI + Transpara®) speeds up reading, optimizes workflow and improves early detection.

Based on the findings from all views of the exam, each case is categorized using the innovative Transpara Exam Score. This categorizes the exams according to their risk of harboring cancer and can be used to automatically triage exams with confidence.

The workflow is automated, the radiologist’s workload is significantly eased, and patients are more quickly started on their diagnostic pathway.
Evidence-based, workflow-centric AI application for breast imaging, powered by Transpara

**Patient Benefits**
- Potential for quicker diagnostic pathway
- Avoid inconsistent results
- Increased confidence due to reduction in false positives

**Radiologist Benefits**
- Helps address workload challenges
- Detection Aid and Region Analysis facilitate clinical diagnosis
- Clinically proven to reduce reading time

**Clinical Management**
- Transpara standalone performs equivalent to Radiologist, helps for 2nd read
- RUBEE enabled triage has potential to significantly reduce workload

Transpara is improving speed of detection and making earlier treatment possible - Worldwide

- To date, Transpara is installed in clinics in over 15 countries
- Over 500,000 mammograms processed with Transpara
- Trained on over 1 million images from over 10 countries

Peer review published scientific evidence
- Supporting over 20 ongoing international clinical studies
- True multivendor compatibility

FDA cleared and CE marked for both 2D and 3D mammography
How Transpara works

Utilizing state-of-the-art image analysis and revolutionary deep learning technology, Transpara automatically identifies soft-tissue and calcification lesions in 2D and 3D mammograms. Findings are shown to radiologists including an objective second opinion, a scientifically-proven method that boosts reading performance.

Evidence based benefits

- It improves both 2D and 3D breast cancer detection accuracy
- It catches cancers earlier
- It is as good as a colleague in 2D and 3D
- It enhances Radiologist performance regardless of experience
- It ensures a consistent patient care continuum
- It reduces both reading times and workload
Transpara® software has been clinically validated with publications in leading scientific journals. It has been demonstrated to support radiologists to improve their breast cancer detection performance, without increasing false positives.

References


4. FDA approval number K193229

“The AGFA Enterprise Imaging platform should help us achieve the institutional infrastructure for implementing AI as soon as the algorithms are developed and validated.”

Dr. Sridhar Redla,
Consultant Radiologist,
Princess Alexandra Hospital,
Harlow, United Kingdom
Contact your Agfa HealthCare Client Executive to get started