



Edison

Deeper Insights, Faster.

Introducing Centricity™ Open PACS AI.



From burnout to empowerment.

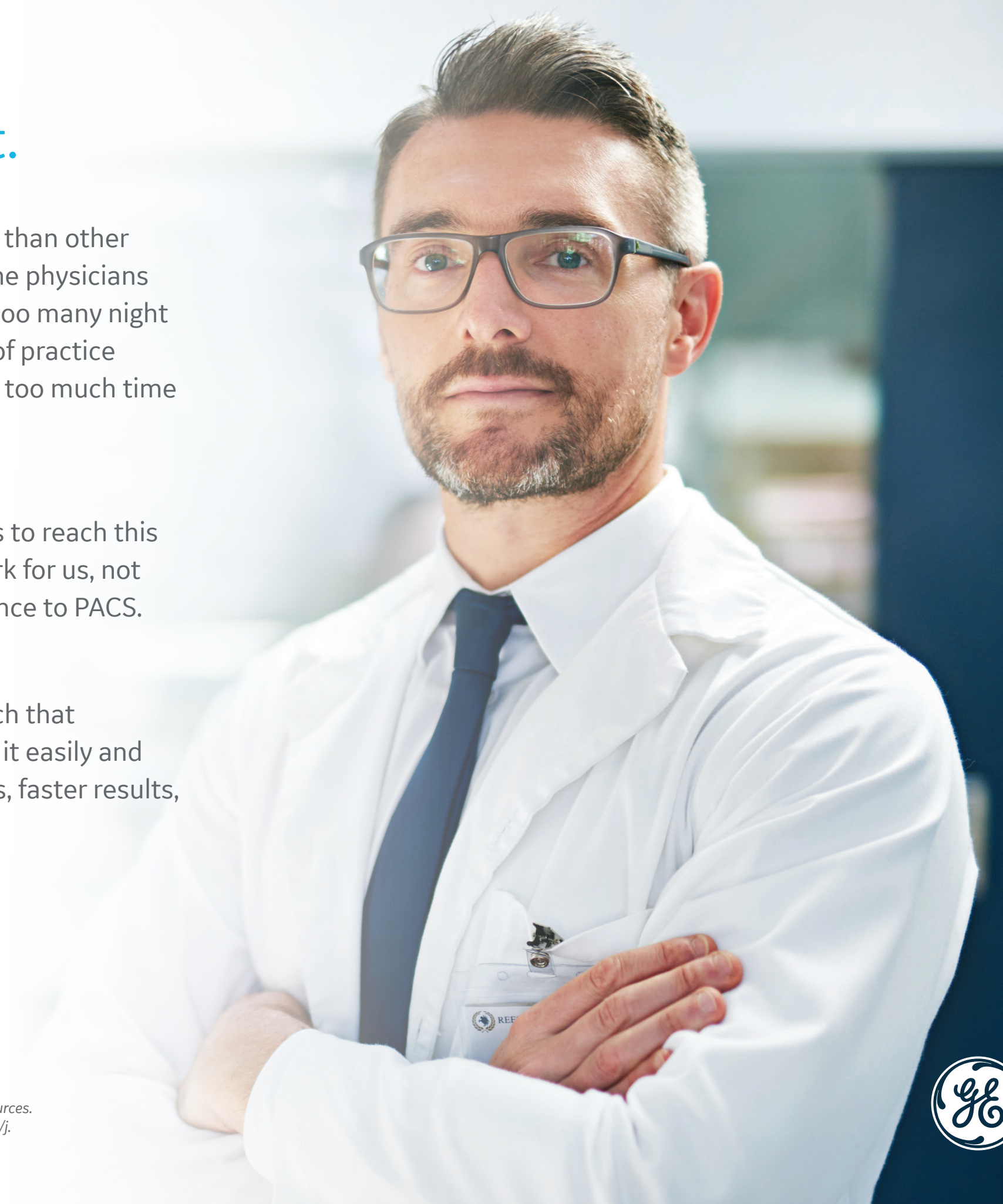
Consider this: in recent studies, radiologists tend to rank higher than other clinicians, with up to 48% reporting burn out¹. When pressed, the physicians listed increasing work overload, long hours, difficult shifts, and too many night calls as the top causes. In addition, increased computerization of practice continues to play a role in radiologist burn out. In other words, too much time on the computer, and not enough time with patients.

At GE Healthcare, we don't believe it's acceptable for physicians to reach this level of burn out. Instead, we believe the technology should work for us, not against. That's why we're bringing a whole new level of intelligence to PACS.

Read on to learn how GE Healthcare has created a new approach that harnesses the power of Artificial Intelligence (AI), incorporating it easily and seamlessly into your existing workflow, to deliver better insights, faster results, and reducing physician burnout.

It's AI-based imaging workflow done right.

¹ *Burnout of Radiologists: Frequency, Risk Factors, and Remedies: A Report of the ACR Commission on Human Resources.* Jay A. Harolds, Jay R. Parikh, +2 authors Michael P. Recht. Published in *Journal of the American...* 2016 DOI:10.1016/j.jacr.2015.11.003



Imaging Devices How it works



DICOM Study

PACS Picture Archive and Communication System



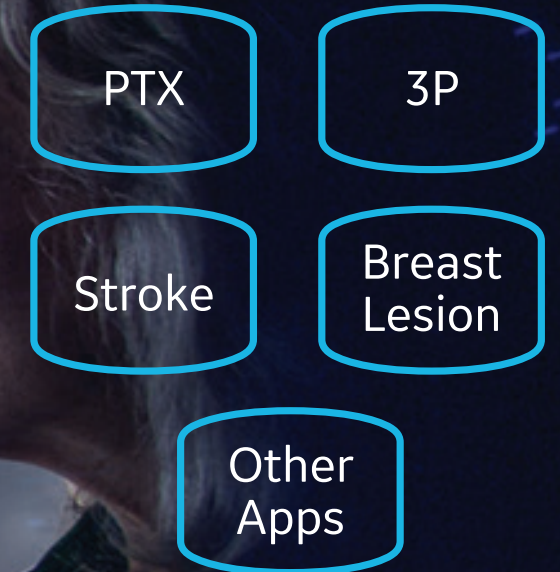
DICOM Study

Clinical Application Orchestration



REST API

AI Inferencing Services



Status and AI Findings

Introducing Centricity™ Open PACS AI.

Artificial Intelligence (AI) is no longer a science experiment - it's moving from experimentation to mainstream and GE Healthcare is on the leading edge. No amount of AI can ever replace the critical role of the radiologist - which is why we're focused on empowering radiologists, working to enable them to have even more profound interaction with patients and their healthcare outcomes.

In order for any AI-enabled application to be effective they must meet a number of requirements. First, they need to work with existing reading workflows. Second, they need to work in those workflows in a way that reduces clicks and the number of user interface interactions, not augment them. Finally, they need to allow the user to continue working in their preferred state, not require new applications or workflows to be learned.

Centricity™ Open PACS AI brings the power of AI into the radiologist workflow, in the way they are familiar and comfortable, delivering the right information, at the right time, based on each patient's context.

It's the perfect complement to round out and leverage your other investments to ensure optimized and streamlined performance.



Deeper insights, faster.

Not only are radiologists tasked with the challenge of assessing patient information and providing a differential diagnosis, they are often challenged with determining which are the most important cases to read at any given time. The risk of negative clinical consequences associated with delays in reading, interpreting, and reporting means that it is important to always be reading the most important case at any given time.

Centricity™ Open PACS AI combines the power of AI with robust automation tools, providing functionalities and capabilities that weren't before possible. This new, integrated, and unified user experience can empower radiologists even further, delivering a new range of vital information for more confident diagnosis and faster treatment potential. That means patient care – and clinician satisfaction - can reach new levels.



Optimize exam prioritization



Identify high-risk patients earlier



Provide a second opinion



Facilitate quality-control programs



Radiology. On your terms.

Let's be honest: learning new software can be frustrating. In fact, over half of institutions report being flat-out terrible at getting personnel to train and adopt. Add that to the already overworked and burned out physician rate and the final result can lead to cognitive overload, which prohibits the adoption and use of new productivity tools.

Centricity™ Open PACS AI starts with the workflow that radiologists are already familiar and comfortable with, but then enhances it with streamlined workflows and improved functionality. That means your team benefits from reduced clicks and number of UX interactions, rather than having to learn a whole new system.

In addition, when used with Centricity™ Universal Viewer with Workflow Manager, institutions can better ensure each patient exam is read by the right radiologist at the right time. And it supports including AI results into the reading workflow to provide intelligent decision support that can be used to support a faster and narrower diagnosis.





Clinicians. Supported.

Imagine you're a clinician and waiting for a critical piece of imaging information to continue with the urgent care your patient needs. You're busy – but you also realize the intense amount of pressure the radiology department is under to keep up with patient cases, sending results, and getting second opinions. Both the clinician and radiologist is already working hard to meet patient demands. One thing, however, could be improved to work harder for everyone: workflow.

The Edison Open AI Orchestrator is specifically designed to improve workflow and is a critical component of the Centricity™ Open PACS AI system. When combined with the Centricity™ Universal Viewer Zero Footprint enterprise viewer, it can facilitate this collaboration by placing exams quickly into the hands of the extended care team – no matter where they are located.



Complete solutions today, scalable for growth tomorrow.

In the increasingly crowded space of AI solutions offered by startups, it's important to remember not only how things will be supported, but also how they are connected to other AI applications and services.

Centricity™ Open PACS AI is a critical component of the Edison Intelligent systems framework, GE Healthcare's intelligence platform. Designed to give you greater efficiency, improve patient outcomes, and increase access to care, the Edison platform offers a pre-integrated catalog of healthcare-specific services that enable rapid and compliant design, development, and deployment of secure applications and algorithms.

But you don't have to take our word for it. Around the world, AI developers choose to integrate with the Edison platform. Why? It's simply best in class. What this means is you can rest assured your investment in Centricity™ Open PACS AI delivers the high-quality technology you need today – while ensuring you are poised to meet the challenges of the future.

AI for decision support and confidence

2018



2017



2016



2015



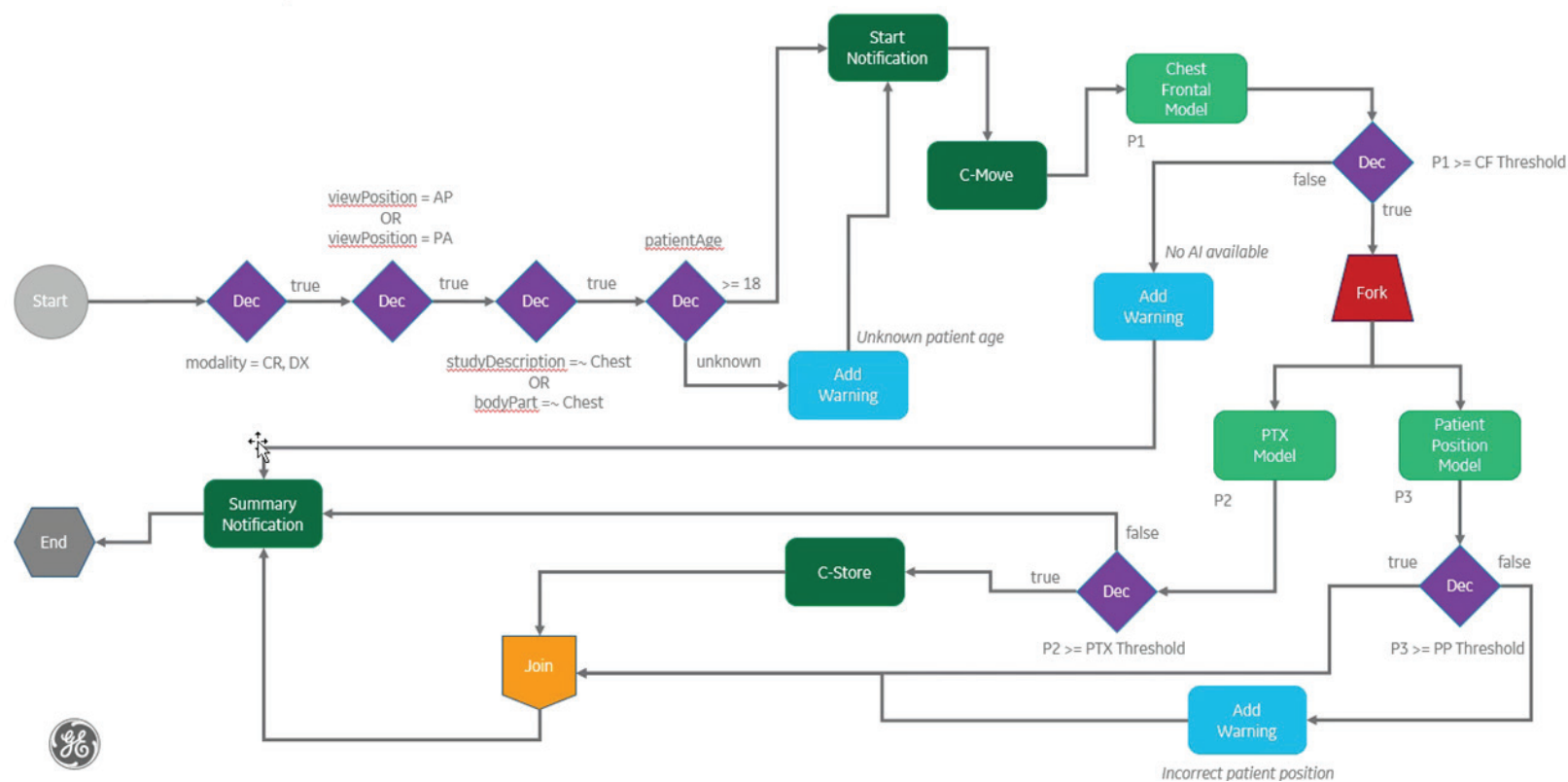


Extensive expertise, seamless execution.

When you use Centricity™ Open PACS AI, you not only benefit from deeper insights faster, you also benefit from the extensive global industry partnerships and integration expertise of GE Healthcare. That means you also gain a single contact for implementing most any clinical application and streamlined integration into your imaging workflows – especially AI-based ones.

And because we realize how complicated and overwhelming all of this can be, our team of workflow and application specialists will work with you and your unique environment and needs – ensuring maximum return on investment. We'll even review and re-map your workflows to help you achieve your goals.

Chest X-ray Workflow for PTX



Don't just improve. Transform.

There's no denying it: healthcare today is changing at a rapid pace. The introduction of AI, while exciting, also brings with it the sharp realization that life as we knew it is forever changed and the future belongs to those willing to transform.

It's not enough to read faster. Nor is it realistic. Radiologists need to interact more directly with patients and referring physicians to provide comprehensive diagnostic and advisory services.

Today's environment is one where AI is no longer an ideal or the future – it's a requirement. Your organization may soon be able to choose from thousands of varying algorithms that could potentially detect concerning features in images from multiple modalities.

While this evolution may change the radiologists' traditional role, it also means they can spend less time performing manual tasks – and more time interacting with critical members of the care team, not to mention patients.

"The value of an idea lies in the using of it."

– THOMAS EDISON

To learn more about how GE Healthcare can assist your organization in deploying AI-based applications for radiology, please contact your GE Healthcare representative, or call (866) 281-7545.





GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter – great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

Imagination at work

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