GE HealthCare

The Role of Cardiovascular IT in Ultimately Human Care

Enterprise imaging connects care, streamlines workflows and saves costs

After decades, the promise of connected care remains unfulfilled. Most "ologies" and their data are still in silos, including cardiology.

Disconnected service lines impact cardiac workflow efficiency, clinician productivity and, ultimately, patient care.

In cardiac imaging, disparate data, proprietary storage and archives, and cumbersome workflows tie clinicians to computers, lengthen time to diagnosis, and impact confident decision-making. Most importantly, these issues take clinicians away from face-to-face time with patients, where they want and need to be.

Enterprise imaging can help change all this. What if you could transform the way scans are stored and accessed, revamp reporting, create a complete-picture patient record in the EHR, and free up IT resources? An enterprise imaging solution in three parts can do that and more.

01

Enterprise imaging is built around a central repository that integrates and houses data from all modalities across departments and locations—ideally a vendor neutral archive (VNA). This database, an evolution of PACS, is at the core of a unified cardiology ecosystem and bridges the gaps between cardiology service lines and healthcare information systems.

02

The VNA is powered by management software that enables seamless data flow with a single point of entry and organization-wide access. It streamlines workflows, saving time and frustration.

03

Images can be read in a universal clinical viewer, which can be used for cardiologist diagnosis or viewed by a referring physician. These viewers enable single-point access to patient data from multiple devices, regardless of their location. The care team can quickly access patients' imaging data from anywhere with an internet connection to review.

What is enterprise imaging?

A set of strategies, initiatives and workflows across a healthcare enterprise to capture, index, manage, store, distribute, view, exchange and analyze all clinical imaging and multimedia content to enhance the electronic health record.[1]

The multifaceted benefits of an enterprise imaging solution can help improve patient experience, reduce burnout, and save time and costs.

- Gain deeper understanding through more data and more interaction with patients
- Streamline cardiac care pathways and optimize clinical workflows
- Increase the speed of retrieval and physician-patient communication
- Aids in making faster, more informed decisions
- Lighten IT's data management load
- Consolidate cardiovascular systems and modalities

6 clicks
for routine structured cardio reports[2]

92%
reduction in cath reports turnaround time[4]

Up to 83%
complete adult echo reports pre-review[3]

1-click
inventory maintenance, reduced from 2 hours/day[5]

Ready to get on the road to enterprise imaging?

Here's a checklist of questions to ask as you consider an implementation. Use them to clarify your needs, evaluate solutions and make the case for an enterprise imaging investment.

Technology compatibility

Is the solution interoperable with your legacy equipment and proprietary modalities across departments? Select a solution that will help you consolidate equipment, unify data, and create more complete electronic health records.

Scalability

Will the solution accommodate your needs today and tomorrow? Choose flexible technology that enables access for multiple clinicians from multiple locations, with a wide variety of devices.

Clinical workflow optimization

Will the solution reduce imaging and reporting bottlenecks to give clinicians more time with patients? Look for technology designed for simplicity and efficiency that uses automation and AI to streamline workflows.

Organizational goals

Does the solution support the objectives your department and your organization have for connected, patient-centric care? Make sure the technology promotes clinician collaboration, more complete picture of patients' clinical data, and faster, data-driven decisions.

Image quality and diagnostic capabilities

What viewing device is included with the solution? Make sure the viewer's features meet your quality, access and varied user needs.

GE HealthCare's vision made real

At GE HealthCare, we recognized the value of VNAs early on and continue to support the evolution to enterprise imaging. We provide an integrated Cardiovascular PACS and Information System that bridges the gaps between care areas and healthcare information systems. It's a single point of access for patient data, waveforms, images, analysis tools and physician reports, combined with powerful end-to-end management, analytics and workflow tools across the cardiovascular care pathway.

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If you're ready to get started, we're here to help.

References

1   Definition adapted from a collaboration between Healthcare Information and Management Systems Society (HIMSS) and Society of Imaging Informatics in Medicine

(SIIM) 2   Nuremberg Clinic Case Study JB54813XXD

3   Centricity Cardio Workflow v7 Intelligent Reporting out-of-the-box configuration compared to 2017 IAC guidelines excluding doppler

4   JB57544US – Wheaton Franciscan Outcomes. Results may vary depending on the site-specific workflow.

5   Cabell Huntington case study JB01165XU