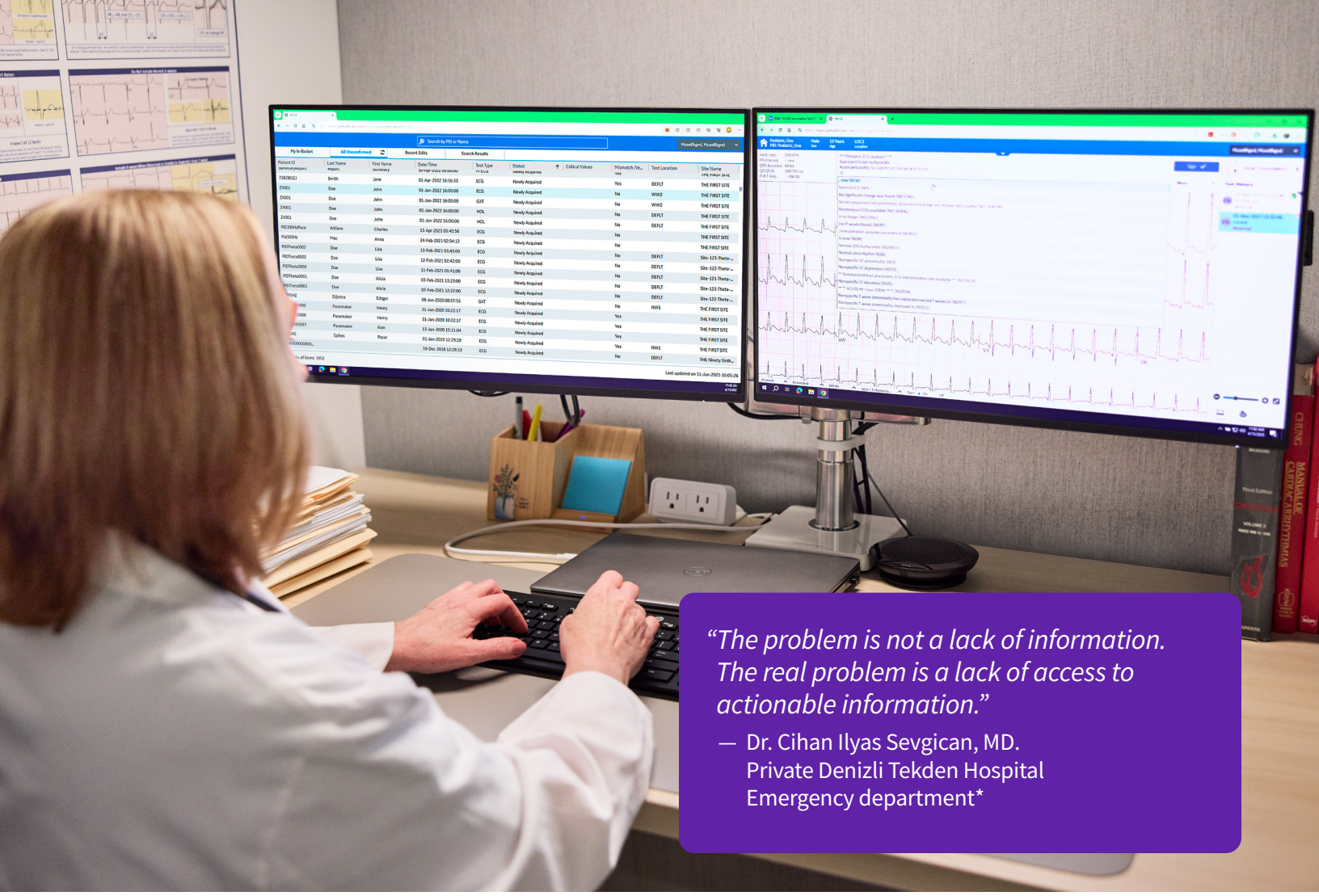
GE HealthCare

MUSE™ NX

One connected and centralized view of patient ECG data



> *"The problem is not a lack of information. The real problem is a lack of access to actionable information."*
>
> — Dr. Cihan Ilyas Sevgican, MD.
> Private Denizli Tekden Hospital
> Emergency department*

When ECG data is everywhere, the full story can be harder to see

More patients. More ECGs. More systems. Less time to bring it all together.

Cardiology teams are managing more ECG data from more places—resting, stress, ambulatory, patient-acquired, third-party sources and the EMR. When that information is disconnected, missing or poor-quality, teams spend more time searching, when they need to be focusing on timely, confident cardiac care.

Disconnected workflows and data

ECG information can live across separate systems, making it harder to see the complete patient story.

More, fragmented data

The volume of ECG data continues to grow and reports are sent through a variety of channels, making them difficult to access, analyze and share.

Privacy concerns

Unsecure transmission methods make practices vulnerable to compliance and regulatory issues.

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MUSE NX helps bring cardiac data together

Connected. Respected. Protected.

Building on 60 years of ECG innovation, MUSE NX cardiology information system is a software solution that connects and centralizes resting, stress, and ambulatory ECG data across care settings. Clinicians are able to easily access cardiac information, streamline workflows, and make confident care decisions.

By helping connect care teams and centralize data, it gives cardiology leaders more visibility into workflow and gives administrators a clear way to manage department performance. And it gives IT teams security controls designed for cardiac data across care settings.

Because an optimized ECG workflow can help care teams move with confidence—especially when time, clarity and accuracy matter most.

Connected workflow

Bring ECG data together across devices, departments, facilities and compatible third-party systems—so the right information is easy to find and share.

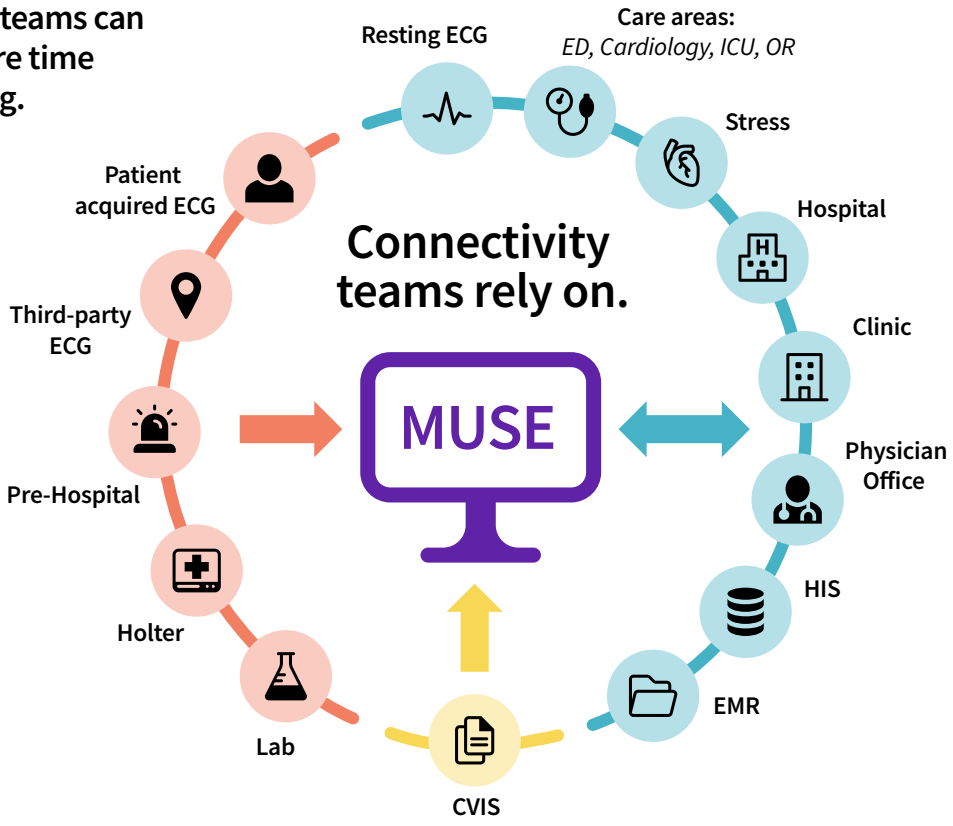
Clinical confidence

Support ECG review with trusted tools such as 12SL™ analysis, serial comparison, measurements and access to prior exams.

Secure access

Help protect patient data with layered security, role-based access, audit trails, LDAP directory services, encryption and institutional patching policies.

When ECG data moves easily, care teams can spend less time searching and more time interpreting, prioritizing and acting.



95%

of the best hospitals for Cardiology, Heart and Vascular surgery use MAC™ Resting ECG and MUSE[1]

Enabling connected care, wherever the patient is

Unify cardiac data to simplify workflows and decision making

Care rarely happens in one place, and ECG data can be hard to access as patients move from home to clinic, ambulance to ED, ICU to cardiology review. MUSE NX centralizes cardiac information so teams can compare current and prior studies, route ECGs to the right reviewer and keep data connected to the patient record, giving teams the full picture, fast.

Third-party connectivity

Connect the patient record across the enterprise by easily integrating reports that are compatible with third-party devices and systems.

Support IT integration

Give clinicians access to ECGs directly within the EMR and from virtually any device, supporting review whether the patient is in the ED, ICU, clinic or in transit.

Anywhere access to patient cardiac data

A secure web-based client enables on demand access from devices across your enterprise and care teams, so teams stay connected wherever they are.

"It's not just a single diagnostic test in any circumstance. It's actually multiple. And you need to integrate these multiple diagnostic tests to be able to provide the best care that you have."

— Dr. Adam J. May
Associate Professor
of Medicine*

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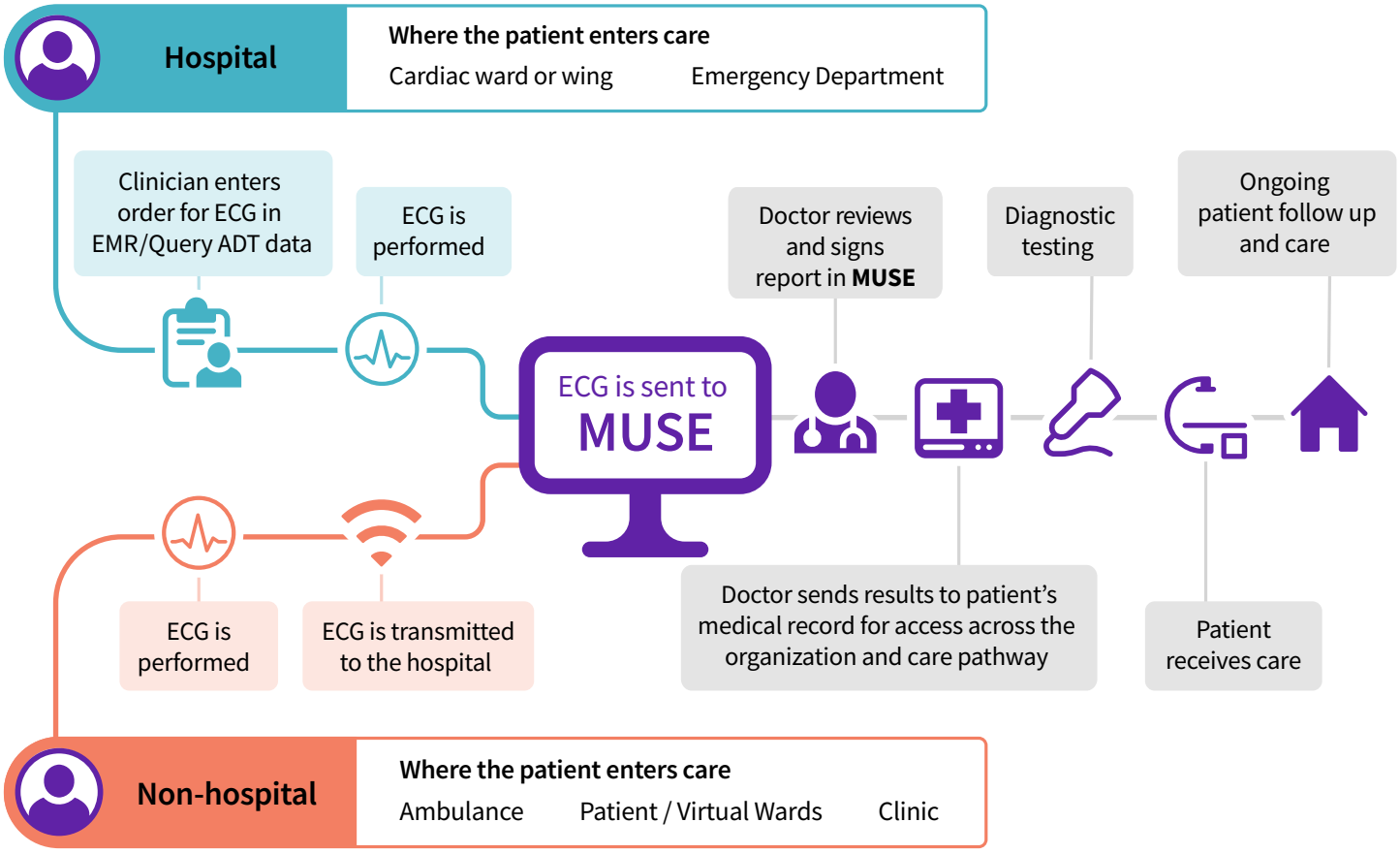


Respected clinical and operational tools you can trust

Bring ECGs, measurements and prior studies into clear clinical and operational context

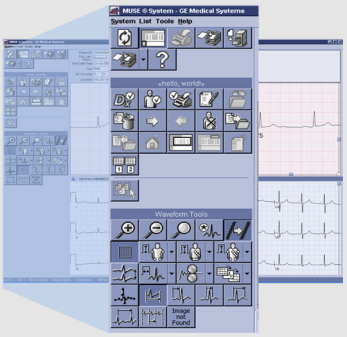
MUSE NX brings trusted diagnostic power into the cardiac workflow. It helps clinicians review ECGs, compare current and prior studies, and analyze data for a holistic view of the patient's cardiac story. It also turns that same ECG data into actionable operational visibility, tracking workflow timing, signal quality and transmission activity so administrators can drive continuous process improvement and reliable performance across the department. Built to support clinical expertise and timely, well managed care, MUSE NX helps teams stay focused on interpretation and operations, not added steps.

Serial comparison

Compare current and prior ECGs, measurements and waveforms to help detect subtle changes over time.

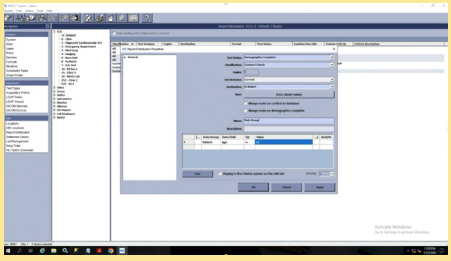
Measurements

Review ECGs efficiently with tools designed for zooming, calipers, waveform selection and key internal measurements, including PR, QRS, QT, RR or QTc.



Criteria based routing

Route ECGs to the appropriate clinician, helping teams access relevant data fast and prioritize urgent cases.

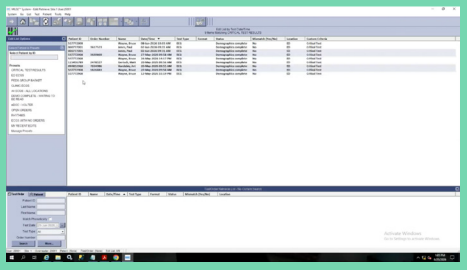


Pacemaker tools

Highlight paced rhythms with clear pulse annotations, a dedicated pacemaker channel and single/bi-ventricular pacing differentiation, helping reduce the risk of contraindicated treatments for paced patients.

Database search

Turn ECG data into actionable operational visibility, by tracking workflow timing, signal quality, diagnostic statements and transmission activity to drive continuous process improvement and reliable performance across departments.



12SL algorithm helps surface what matters

Clinical decision support for your ECG

Continuously refined for more than 40 years, the 12SL algorithm helps bring clarity to ECG interpretation—combining validated analysis with tools that reveal clinically meaningful findings, to support risk prediction and improve diagnostic precision.[2]

Bi-ventricular pacing detection

Automatically detects even small signals to ensure consistent labeling and reduce rhythm interpretation errors (pacing goes undetected in roughly 10% of ECGs).[3]

Zero Phase Distortion (ZPD)

Ensures consistent ST-segment interpretation across both 12-lead and rhythm ECGs.

LVH recognition

Aligns with guidelines to identify key criteria and flags which criteria are positive, improving diagnostic clarity.[4]

Acute coronary syndrome (ACS) tool

Increases sensitivity for ST-Elevated myocardial infarction or acute ischemia in patients suspected of having an acute cardiac event.

> *"The algorithms on a lot of these devices now are really good at identifying normal rhythms. That helps us filter out what's not clinically significant, so we can focus on the cases that truly need attention instead of being buried in unnecessary data."*
>
> — Dr. Hawkins C. Gay, MD, MPH, MSAI
> Cardiac Electrophysiologist*

100+

peer reviewed studies and clinical trials validating the 12SL algorithm[2]

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Protected, so your teams can work with confidence

Because connected cardiac data needs protection built in

MUSE NX supports secure access to cardiac data across enterprise workflows and seamless integration with existing infrastructure. Its layered security approach helps protect patient data, support role-based access and integrate with existing security infrastructure.

So your teams can stay connected without giving up control.

Control access	Enable SAML-based single sign-on (SSO), allowing users to access MUSE NX with the same login credentials they use across your enterprise—while managing access and profiles with role-based permissions and LDAP directory services.
Track activity	Support record history and auditability for changes and activity.
Protect data	Use encryption, institutional patching policies and enterprise security practices to help keep unauthorized users out.
Support compliance	Use encryption and secure data handling that complies with HIPAA and GDPR requirements.
Connect securely	Integrate with existing security infrastructure to support enterprise access without unnecessary workflow friction.

Built for every team behind the ECG workflow

MUSE NX helps clinicians, IT teams and administrators solve different parts of the same challenge: getting the right cardiac data to the right people at the right time.

Physicians

- Get to the cardiac story fast
- Access ECGs from virtually any device, including directly within the EMR
- Compare current and prior ECGs to identify clinically meaningful changes
- Use standardized tools and measurements for consistent interpretation
- Route studies to the right reviewer
- Reduce manual searching across disconnected systems

IT leaders

- Connect systems without adding unnecessary complexity
- Support enterprise ECG workflow across care areas
- Connect compatible devices, study sources and third-party systems
- Support role-based access and LDAP directory integration
- Track activity through record history
- Protect data with encryption and institutional security policies

Administrators

- Make ECG workflow easy to manage at scale
- Automate orders and billing
- Improve visibility across enterprise ECG workflows and quality issues
- Support digital workflows that may reduce paper and delays
- Help standardize ECG access across departments and locations
- Support operational improvements such as capacity management, charge capture and throughput

About GE HealthCare Technologies Inc.

GE HealthCare is a leading global medical technology, pharmaceutical diagnostics and digital solutions innovator, dedicated to providing integrated solutions, services and data analytics to make hospitals more efficient, clinicians more effective, therapies more precise and patients healthier and happier. Serving patients and providers for more than 125 years, GE HealthCare is advancing personalized, connected and compassionate care, while simplifying the patient's journey across the care pathway. Together our Imaging, Ultrasound, Patient Care Solutions and Pharmaceutical Diagnostics businesses help improve patient care from diagnosis, to therapy, to monitoring. We are a $19.6 billion business with approximately 51,000 colleagues working to create a world where healthcare has no limits.

References:

1. "Best Hospitals for Cardiology & Heart Surgery", U.S. News and World Report. 2022. https://health.usnews.com/best-hospitals/rankings/cardiology-and-heart-surgery
2. Marquette™ 12SL™ ECG Analysis Program Physician Guide 2056246-007
3. Ricke, A.D., et al., Improved pacemaker pulse detection: clinical evaluation of a new high-bandwidth electrocardiographic system. J Electrocardiol, 2011. 44(2): p. 265–74.)
4. Okin, P.M., et al., Combining ECG Criteria for Left Ventricular Hypertrophy Improves Risk Prediction in Patients with Hypertension. Journal of the American Heart Association, 2017. 6(11).

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The content of this brochure represents the R2 version MUSE NX. Not all products or features are available in all markets.

Data subject to change. GE HealthCare reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation.

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