



# LOGIQ E9

Agile ultrasound



# This changes everything

Introducing LOGIQ® E9 — the ultrasound platform of the future. You now have the power of extraordinary image quality on all patient body types. You now have tools that enable you to do the things you've never imagined ultrasound could do. And now you have the capabilities to improve workflow with ease. This truly does change everything.



## An entirely new level of image quality.

Incredible image uniformity is present in both the near and far fields.

Agile Acoustic Architecture gets the right image that leads to the right decision.

Advanced transducers maximize penetration without sacrificing resolution.



## Ultrasound has never had tools like these.

Merge real-time ultrasound with previously acquired CT, MR or ultrasound images.

Visually track your position during a scan using GPS technology.

Acquire a volume of data with a 2D transducer and analyze in any plane.



## Diagnostic confidence made easier.

Fully customizable Scan Assistant significantly reduces keystrokes.

Highly intuitive user interface puts controls right where you need them.

Volume sweeps enable a virtual rescan of raw data in any plane at any time.

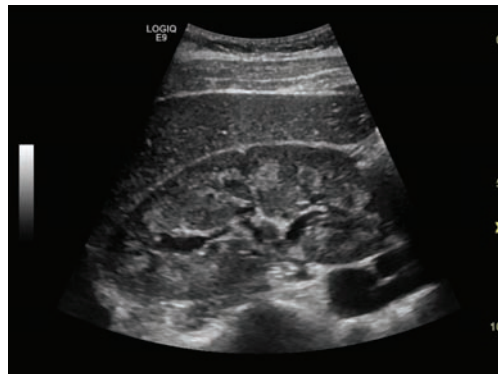
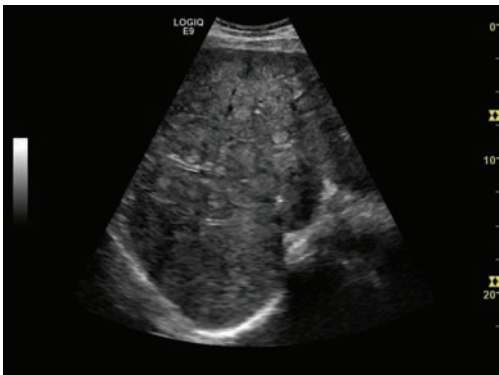
Everything.



# Agile Acoustic Architecture.

## The amazing ability to image any patient.

Ultrasound has always been based on rigid assumptions. Until now. LOGIQ E9 is based on agile ultrasound. It's a completely new, flexible approach built on proprietary clinical models of the human body. Agile ultrasound dynamically optimizes numerous imaging parameters, so you can now acquire remarkable images on any patient.



*E-Series Transducers powered by Agile Acoustic Architecture give excellent spatial resolution from near-to-far field at a depth of 24 cm (left). With the same transducer, spatial resolution at a high frequency provides excellent spatial and contrast resolution using one focal zone (right).*

### High-frequency quality even at depth.

The Agile Acoustic Architecture powering LOGIQ E9 enables you to get outstanding image uniformity from near-to-far field. Even with the largest patients, you have an amazing view throughout the entire image.

### Incredible E-Series Transducers make imaging incredibly easy.



Acoustic Amplifier Technology achieves higher sensitivity by recapturing the unused acoustic energy that previously passed through the transducer crystal.

Single Crystal Technology uses new ceramic materials to increase bandwidth, offering better signal to noise and improved axial resolution and penetration.

Matrix Array Technology uses multiple rows of crystals to help achieve uniform resolution throughout the field of view.



# This is the platform of the future.

Good images.



Great images.

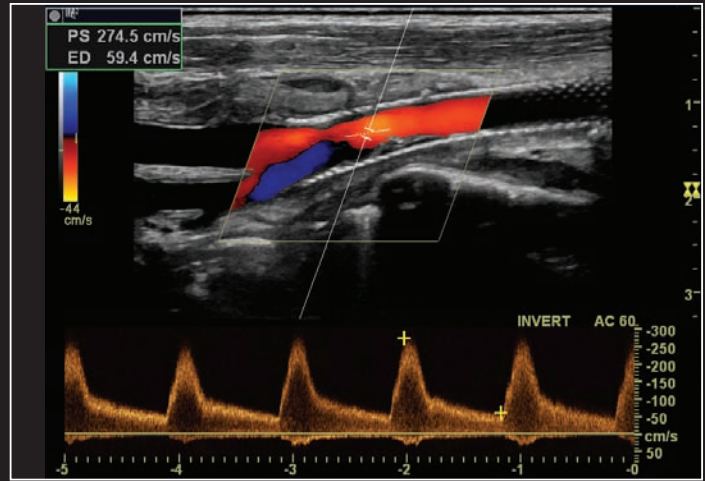


Extraordinary images: LOGIQ E9.



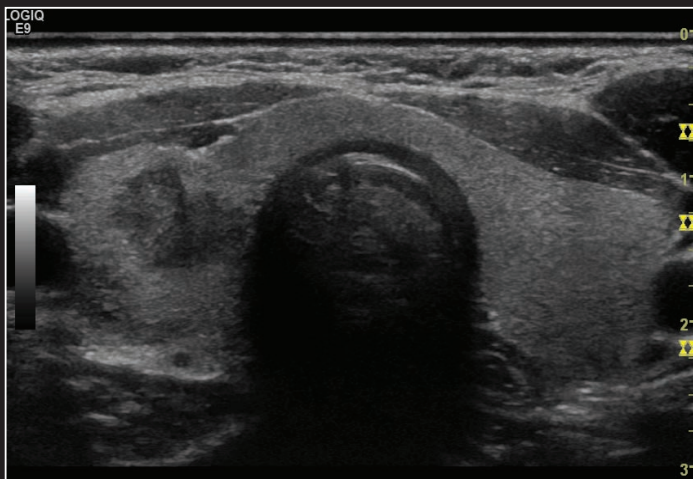


With Agile Acoustic Architecture and an E-Series Transducer, spatial and contrast resolution are maintained from the liver capsule to the echogenic kidney with only one focal zone.

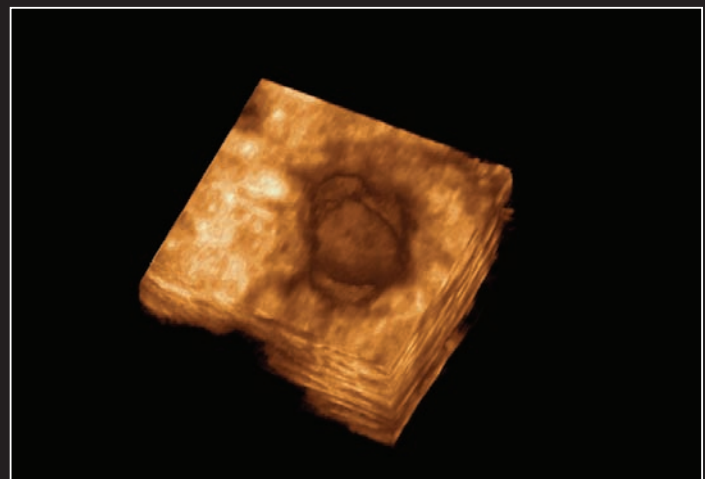


Even when color and Doppler are added, grayscale presentation of the plaque in the CCA stent is preserved.

# Clinical confidence



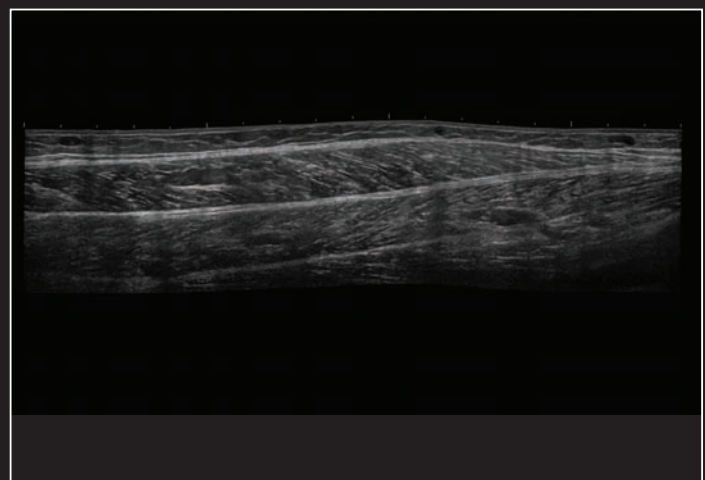
The combination of LOGIQ technologies (Matrix Array, Coded Harmonics Imaging [CHI], SRI-HD and CrossXBeam™) clearly defines the entire thyroid and lesion. Note that the esophagus is apparent just under the left lobe.



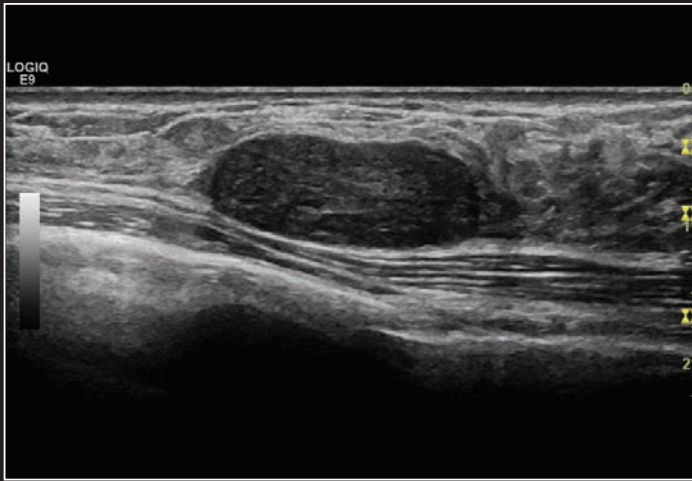
Easy 3D gives the ability to view the coronal plane, delineating the margins of this hemorrhagic breast cyst.



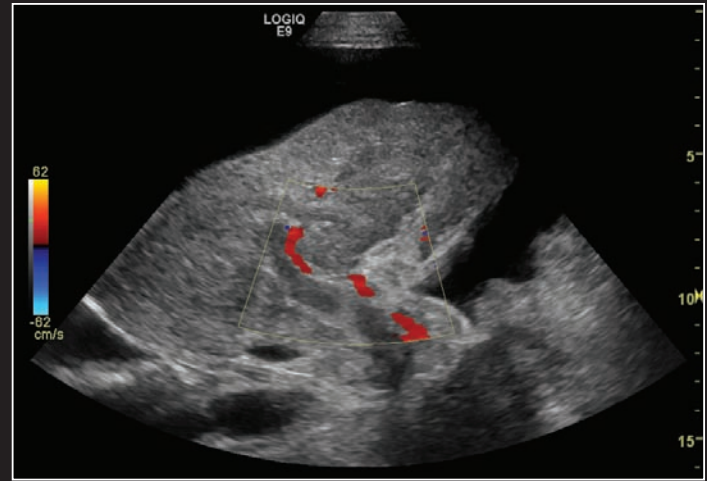
Image uniformity provided by the agile clinical model enables clear visualization of the patient's skin line, the cerebellum of the fetus and the posterior cranium.



Layering multiple LOGIQ technologies together, this panoramic view of the gastrocnemius and soleus muscles combines LOGIQView, CrossXBeam and CHI.

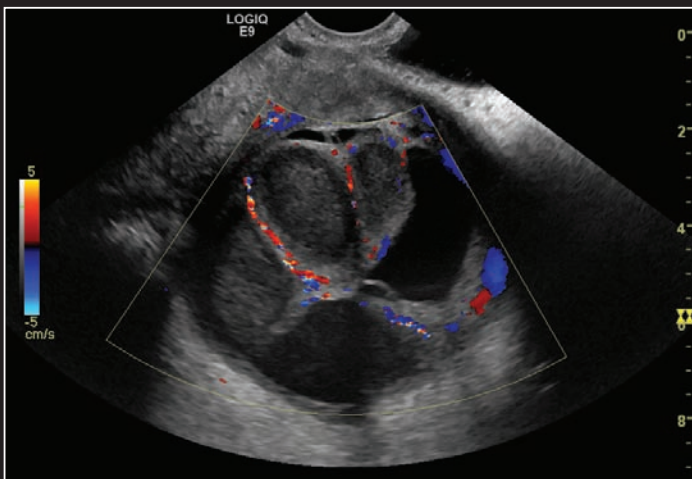


The ML6-15's 50 mm footprint provides a wide field of view, permitting high-resolution border definition in clinical context for this breast adenoma.

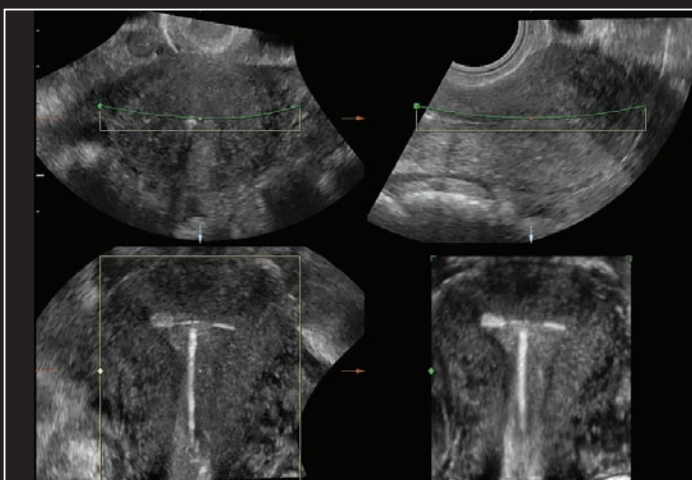


Visualization of portal vein thrombus in this end-stage cirrhotic liver is enhanced with the E-Series technologies on this sector transducer.

# with agile ultrasound.



This tubo-ovarian abscess highlights near-to-far field resolution with a single focal zone and color Doppler sensitivity with a high-frequency endocavitary transducer.



Multiplanar imaging provides the coronal view, enabling better visualization of an intrauterine device within the endometrium.

## Technologies that lead to a better image:

**Agile Acoustic Architecture** is a completely new, flexible approach built on proprietary clinical models of the human body.

**E-Series Transducers** improve sensitivity, penetration, spatial resolution and image uniformity.

**High-definition Speckle Reduction Imaging (SRI-HD)** is a real-time algorithm that increases contrast resolution by reducing speckle noise while maintaining true tissue appearance.

**CrossXBeam** combines multiple images from different angles into a single, real-time image that allows for better border definition and increased contrast resolution.

**Coded Harmonic Imaging (CHI)** enhances near-field resolution for improved small parts imaging as well as far-field penetration compared with typical harmonic imaging.

**LOGIQView** displays images over an extended length of anatomy, providing excellent visualization and more clinical information.

**Tomographic Ultrasound Imaging (TUI)** enables images to be viewed in a variety of planes, much like CT and MR, by using multiple simultaneous slices of a volume data set acquired with a volume transducer.

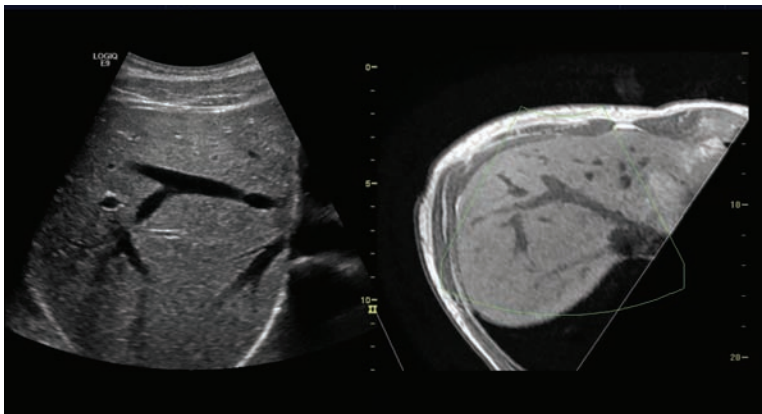


# Volume Navigation.

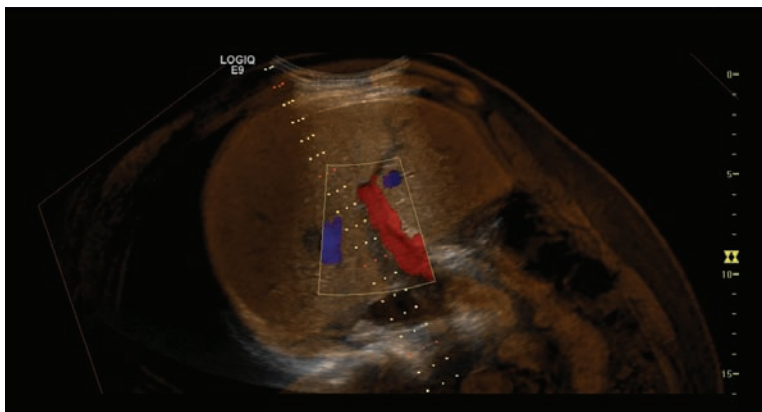
## Changing the way you view ultrasound.

### Fusion brings CT or MR images right to your ultrasound.

- Merge real-time ultrasound with previously acquired CT, MR, PET or ultrasound DICOM images.
- Directly compare lesions while taking advantage of the strengths of each imaging modality.
- Virtually scan the previous study to match the live ultrasound, making a comparison either side by side or by overlaying the images.
- Monitor interventional procedures with real-time fused images.



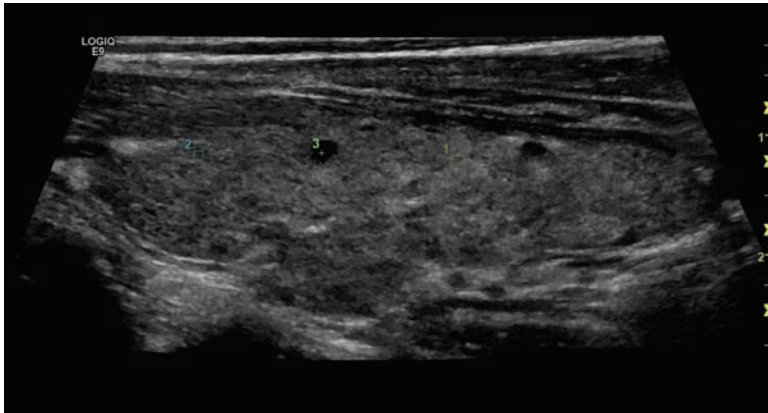
*Volume Navigation showing Fusion of MR and ultrasound using side-by-side display.*



*Volume Navigation allows you to add hemodynamic information displayed by color Doppler to anatomical data from MR by using the overlay mode.*







*Volume Navigation with GPS markers enable the user to count nodules in Hashimoto's thyroiditis.*

## GPS helps you confidently find your way.

- Visually track your position during a scan.
- Mark points in the body to find an anatomical structure from a different view.
- Guide biopsies efficiently and effectively.
- Simplify the counting of masses, lesions and nodules.



# Scan Assistant.

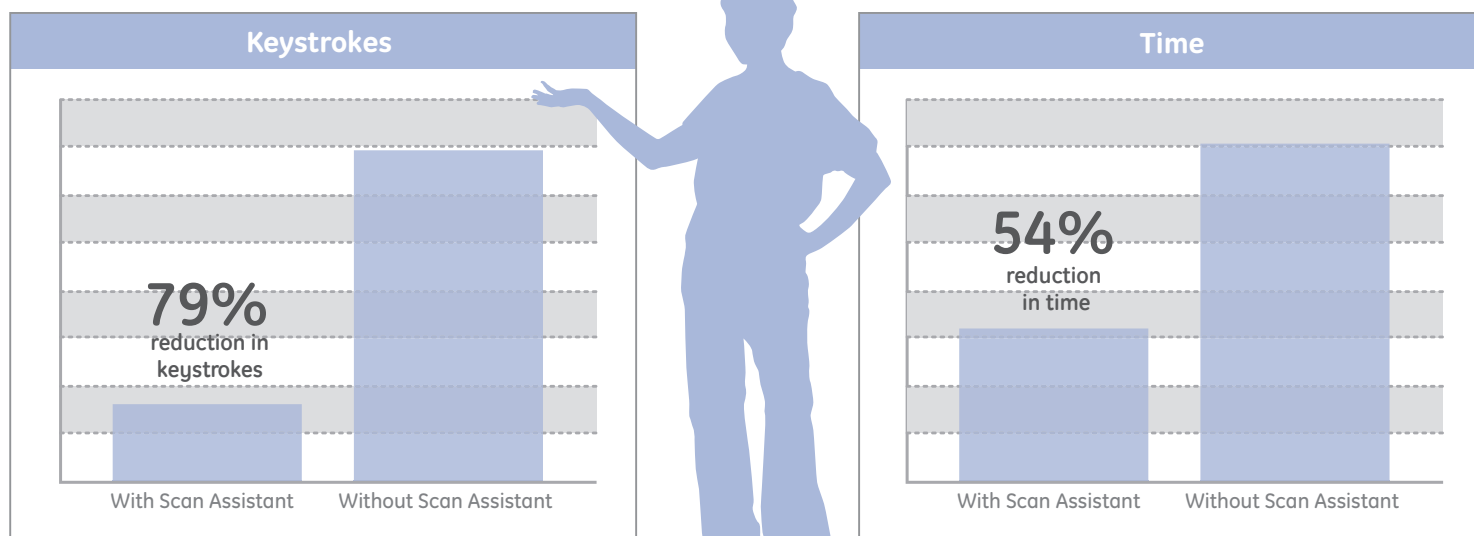
A system that thinks the way you do.



Scan Assistant knows the next step of a scan and helps you get there like no other ultrasound system can. This customizable scanning program was built from actual user feedback to enable you to focus on the important elements of an exam by doing the little things for you.

- Initiates and auto completes required measurements
- Automatically steers color Doppler
- Automatically sets up imaging controls and modes
- Automatically inserts comments

## Scan Assistant significantly decreases keystrokes and shortens exam time.



Data provided from an internal study performed by a third-party sonographer.

# Volume Imaging Protocol.

Proven techniques to heighten efficiency.



Using GE Healthcare's proven Volume Imaging Protocol (VIP), LOGIQ E9 enables you to move the dynamics of real-time ultrasound from the scan room to the workstation. VIP images an entire organ in volume data sweeps, much like in CT or MR. VIP, together with ViewPoint, enables you to perform a virtual rescan of the raw data in any plane at any time and has been proven to reduce exam time and improve workflow.

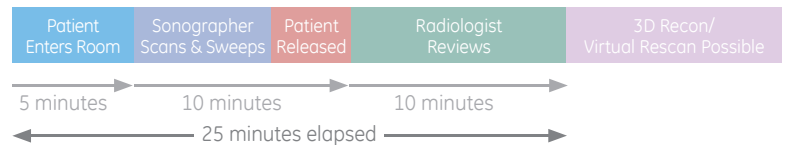
### What VIP means to you:

- Reduced probe time up to 60 percent
- Reduced potential rescans up to 50 percent for sonographers
- Improved physician workflow
- Improved department throughput by up to 30 percent
- Decreased facility backlog

### Conventional workflow



### VIP workflow



Data from multi-center studies performed using VIP.



# Ergonomics. Designed for you.

The motorized adjustable height enables you to fit the system to your needs with the simple touch of a button.



The monitor tilts completely down to ensure nothing obstructs your view when transporting the system.

At an average 20 percent smaller and up to 100 pounds lighter than other premium ultrasound systems, LOGIQ E9 offers remarkable mobility to easily go wherever you need to go.

The full-sized, floating keyboard allows you to enter data right where you are, eliminating the strain of a far reach.

The highly intuitive control layout clusters your most-used keys around the trackball, so you can focus on the patient instead of searching for the key.

Having both front and rear handles makes it easier for you to transport and maneuver the system.

The customizable touchscreen panel enables you to set up the system to your specific preferences.

The E-Series Transducers were designed with user input, featuring lighter materials, ridges for improved handling and proper grip, and flexible, lightweight cables.



# InSite ExC.

## The ultimate ultrasound support.

With InSite™ ExC, you have the ability to connect your LOGIQ E9, via a secure broadband connection, to the GE Healthcare LiveAssist Center. This innovative tool will proactively monitor the health and performance of your ultrasound system and automatically identify any issues that need your attention.

And, because our technical and clinical LiveAssist staff members are able to virtually control your system, they can often diagnose and resolve problems on the spot. It's just one of the many ways that GE Healthcare is there to support you.



imagination at work

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## Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care "Early Health." The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

GE Healthcare  
9900 Innovation Drive  
Wauwatosa, WI 53226  
U.S.A.

[www.gehealthcare.com](http://www.gehealthcare.com)



imagination at work