

LOGIQ E9 with XDclear

Shear Wave Elastography

Shear Wave elastography offers clinicians an advanced level of diagnostic information for the evaluation of tissue stiffness. With Shear Wave elastography, the LOGIQ™ E9 with XDclear™ ultrasound system uses a focused burst of acoustic energy from the transducer to generate Shear Waves to produce quantitative measurements and a color coded elastogram. These quantifiable exams provide benefits beyond strain elastography, where the operator uses manual compression to produce a qualitative assessment of tissue that can vary from user to user.

The LOGIQ E9 with XDclear is a system well-known for high quality imaging and tools that help users complete exams consistently and efficiently. Its Shear Wave elastography technology is intuitively designed for ease of use, reproducibility and smooth integration into department workflow.

Extraordinary images

The powerful Agile Acoustic Architecture of the LOGIQ E9 with XDclear enables exceptional clarity for Shear Wave exams.

- **C1-6VN, C1-6 and 9L transducers** – Help provide excellent penetration and resolution
- **Shear Wave elastography presets** – Help enable easy imaging – just place the transducer and acquire
- **Image quality enablers** – Excellent frame rate speed helps reduce motion artifacts, and an advantageous penetration mode helps improve sensitivity for difficult cases

Easy workflow

LOGIQ E9 with XDclear Shear Wave elastography workflow enables fast, reproducible exams and helps reduce operator dependence.

- **Auto sequencing feature** – Provides automatic placement of measurement ROI to help reduce keystrokes

- **Multiple measurement ROIs in the Shear Wave image** – Helps increase exam speed by reducing the number of acquisitions needed for a complete exam
- **Flexible display options**
 - User programmable display of tissue stiffness in kilopascals or velocity in meters per seconds
 - Allows each user to select their viewing preference for a single or dual view display
- **Automation tools combined with Shear Wave elastography for advanced efficiency**
 - **Compare Assistant:** Easily retrieve prior exams for side-by-side comparisons that assist in exam set-up and helps enable confident interpretations
 - **Scan Assistant:** Helps provide excellent patient care by automating repetitive tasks and measurements

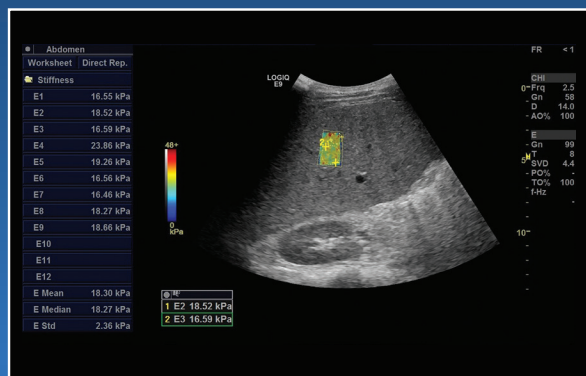
healthymagination



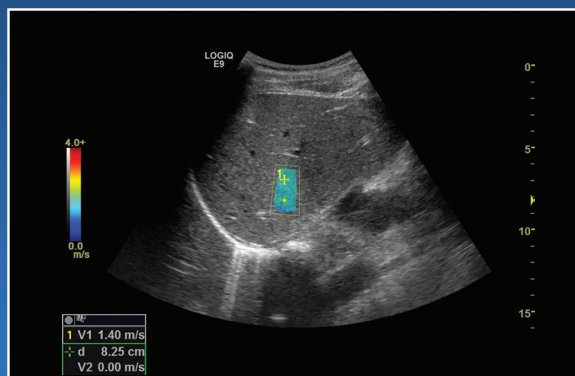
imagination at work



Shear Ease



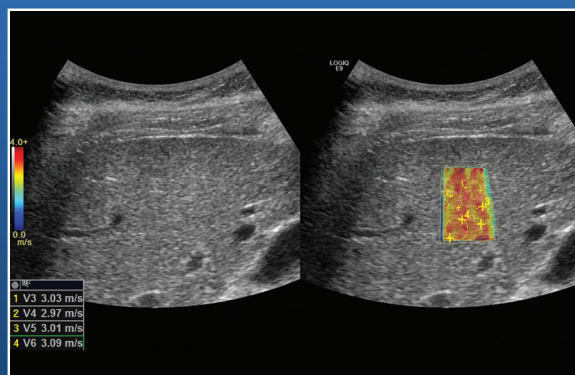
Shear Wave exam of a patient with chronic liver disease



Shear Wave velocity measurement at 8cm depth.

Parameter	Value	m1	m2	m3	m4	m5	m6
B Mode Measurements							
E1	29.03 kPa	29.03					
E2	28.06 kPa	28.06					
E3	28.59 kPa	28.59					
E4	27.90 kPa	27.90					
E5	28.39 kPa	28.39					
E6	28.00 kPa	28.00					
E7	28.64 kPa	28.64					
E8	29.90 kPa	29.90					
E9	28.24 kPa	28.24					
E10	29.36 kPa	29.36					
E11	24.49 kPa	24.49					
E12	29.16 kPa	29.16					
E Mean	28.31 kPa	28.31					
E Median	28.49 kPa	28.49					
E Std	1.35 kPa	1.35					

Sample worksheet of liver tissue stiffness in kPa units.



Simultaneous dual view allows for optimal placement of the region of interest.

Expert tools

Look to LOGIQ E9 with XDclear to help provide comprehensive patient management with tools that combine with Shear Wave elastography for advanced patient care.

- **Volume Navigation** – Use Fusion to merge real-time ultrasound with previous exams to directly compare anatomy of interest
- **Contrast Enhanced Ultrasound (CEUS)** – Help enhance visualization of tissue in serial studies to monitor treatment effectivity or disease progression

LOGIQ E9 with XDclear Shear Wave elastography provides patients and clinicians a non-invasive, quantitative assessment of chronic liver disease and lesions in the liver, breast and small parts applications.

Shear Wave elastography on the LOGIQ E9 is not for sale in the USA. It is not approved or cleared by the U.S. FDA.

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