

LOGIQ S8 XDclear Strain Elastography

Characterize lesions with efficiency and confidence

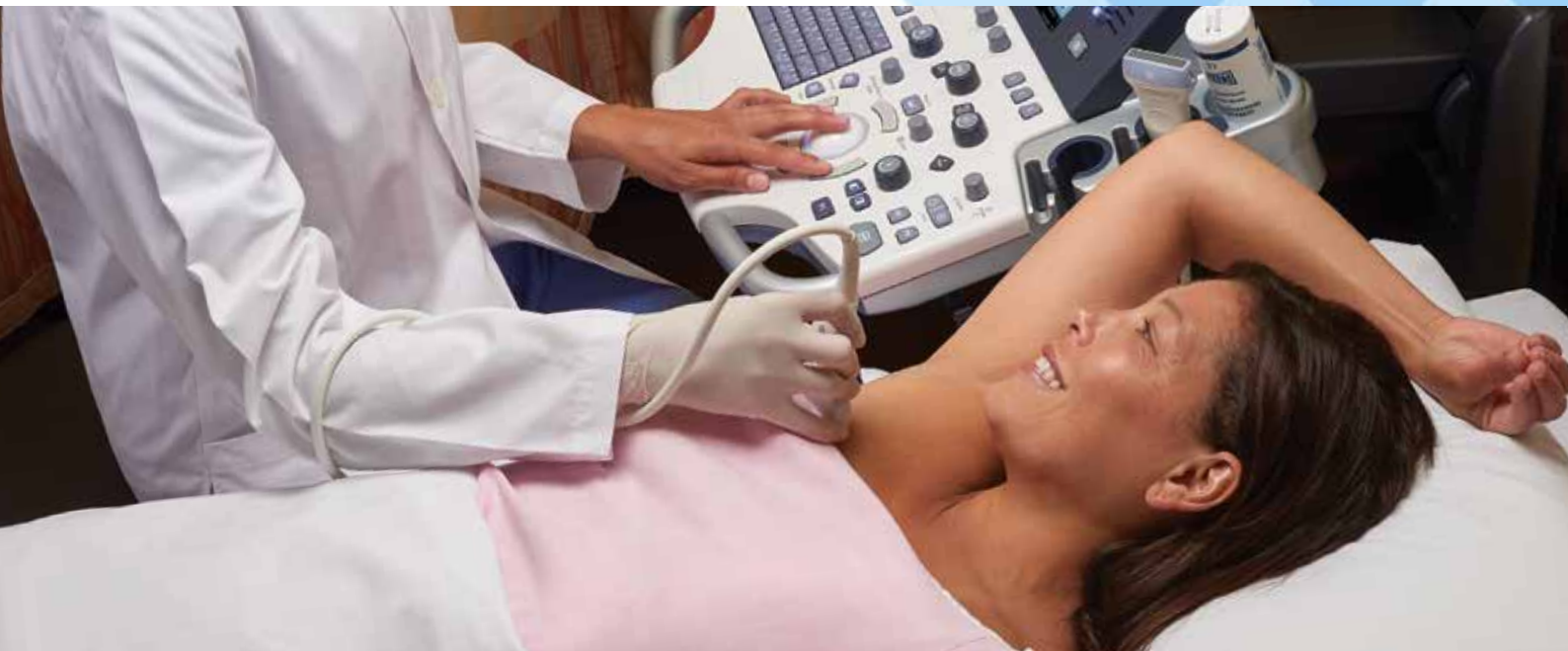
Clinical Challenge

Physicians have traditionally examined textural differences in tissue by hand palpation during physical exams. This method can be limited by difficulty in accessing the region of interest and distortion from intervening tissue.

GE Solution

Strain Elastography is a non-invasive, diagnostic technique performed in correlation with conventional B-mode ultrasound. By measuring the elasticity of tissues, Strain Elastography can add valuable information to the examination and help clinicians differentiate benign from malignant lesions, offering the potential to:

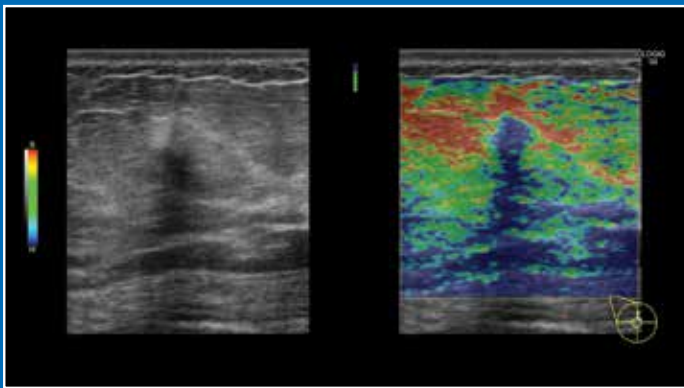
- Assist in patient management decisions
- Enhance diagnostic confidence
- Reduce the need for invasive procedures



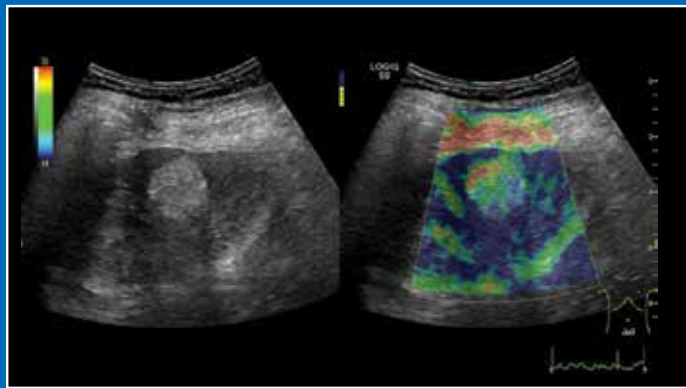
Superb Imaging

Strain Elastography software from GE Healthcare estimates the strain, or tissue deformation, in the region of interest after compression. This calculation creates an elastogram, which is a color overlay on top of the B-mode image representing tissue elasticity. Since malignant tissue is typically of harder consistency than benign tissue, the elastogram can aid in lesion characterization

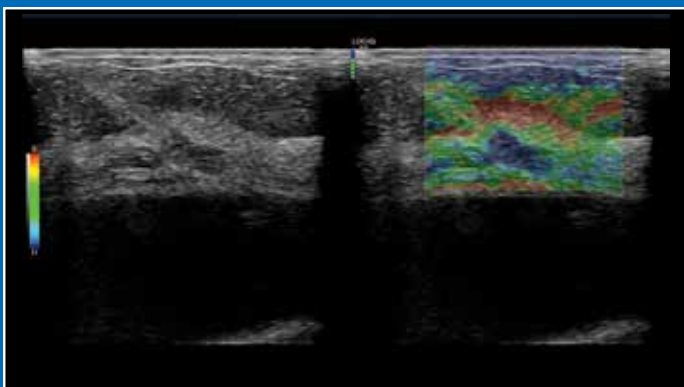
A quality indicator provides visual feedback to monitor the compression technique. This assists the user in learning the technique and achieving reproducible information.



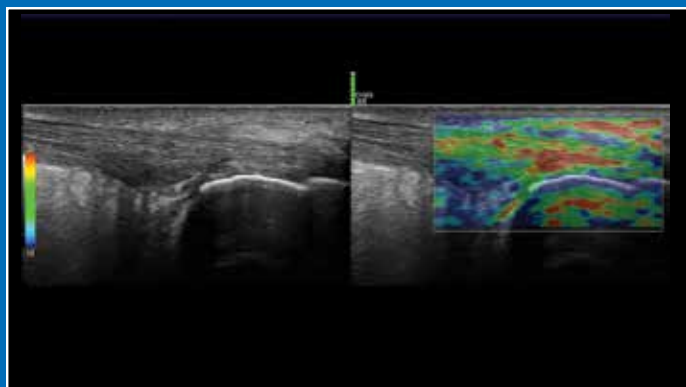
Breast, L3-12-D



Liver, C1-5-D



Breast, ML6-15-D



Shoulder, ML6-15-D

Elastography plus advanced tools – a powerful combination

LOGIQ™ S8 XDclear™ offers a range of advanced tools that can be used in combination with Strain Elastography to help detect and characterize lesions efficiently and with enhanced diagnostic confidence. These include:

- **Volume Navigation** – Fuses prior PET, MR, CBCT, CT or 3D ultrasound exams with real-time ultrasound scanning to help correlate and evaluate information simultaneously
- **Q-analysis¹** – Uses semi-quantification analysis to determine the Elastography index of a single ROI, and the ratio between multiple ROIs. Using a stored ~ 5 second cine, plot each elasticity index and their ratio on a timeline axis for semi-quantification.

Clinical Applications

Strain Elastography from GE Healthcare offers the means for non-invasive, quantitative assessment of tissue stiffness in a growing range of applications, including:

- Liver, for focal lesions assessment
- Breast
- Small Parts (e.g. thyroid)
- Urology
- Musculoskeletal

¹ Not available for sale in the United States. Not cleared by the United States FDA.

Imagination at work

www.gehealthcare.com. Product may not be available in all countries and regions. Contact a GE Healthcare Representative for more information. Data subject to change.

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