LOGIQ S8 XDclear 2.0
Shear Wave Elastography

Quantify tissue differentiation for enhanced reproducibility

Clinical Challenge

Measuring tissue elasticity via Ultrasound Elastography is valuable in studying chronic disease. Many clinicians use Strain Elastography but would like an option that produces quantitative results and greater reproducibility.

GE Solution

Two-dimensional Shear Wave Elastography from GE Healthcare provides the next level of confidence in tissue assessment. It produces quantitative measures of tissue elasticity and color-coded elastograms, giving clinicians an advanced level of information with the potential to:
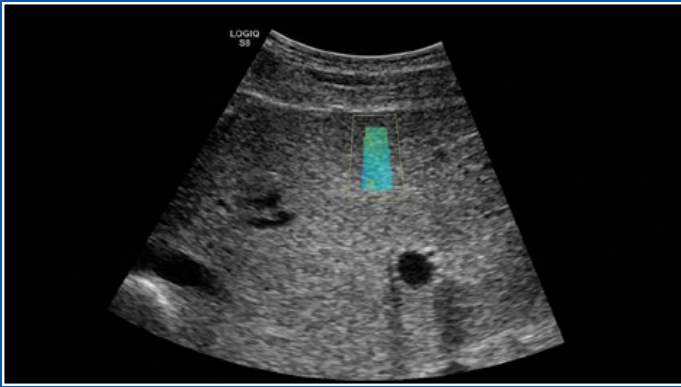
- Assist in patient management decisions
- Enhance diagnostic confidence
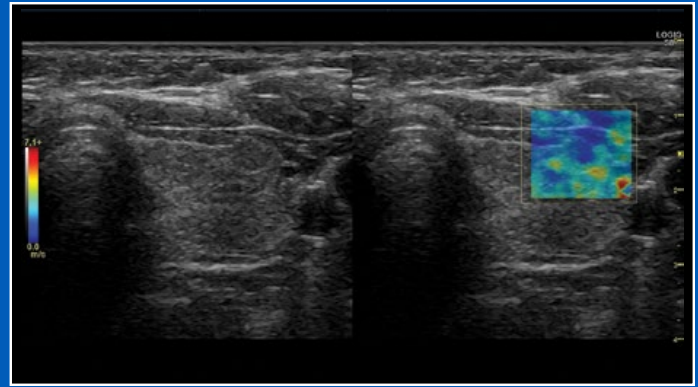- Reduce the need for invasive procedures

Superb Imaging

Excellent frame rate helps reduce motion artifacts.

- **C1–6-D, 9L-D and C1-6VN-D probes** – Deliver excellent resolution and penetration

Liver with Shear Wave Elastography, C1-6-D

Thyroid with Shear Wave Elastography, 9L-D

Simplified Workflow

Shear Wave Elastography with the LOGIQ™ S8 XDclear™ 2.0 system enables fast, reproducible exams and helps reduce operator dependence.

- **Auto sequencing** – Automatic placement of measurement ROI helps reduce keystrokes

- **Multiple measurement regions of interest (ROIs) in the Shear Wave image** – Helps increase exam speed by reducing the number of acquisitions needed for a comprehensive exam

- **Flexible display options** – User-programmable display of quantitative assessment of tissue stiffness in either kilopascals (kPa) or velocity in m/s and the choice of single or dual view display

- **Ability to change the size and the depth** of the region of interest (ROI)

Tissue characterization becomes even more efficient when Shear Wave Elastography is used in conjunction with such workflow enhancement tools as:

- **Compare Assistant** – Easily retrieve prior exams for side-by-side comparisons that assist in exam set-up and support confident diagnosis

- **Scan Assistant** – Automates repetitive tasks measurements and helps standardize scanning protocols

- **Volume Navigation** – Fuses prior MR, CBCT, CT, PET/CT, SPECT or 3D ultrasound exams with real-time ultrasound scanning to help correlate and evaluate information simultaneously

Clinical Applications

Shear Wave Elastography offers the means for non-invasive, quantitative assessment of tissue stiffness in a growing range of applications, including:

- Chronic liver disease assessment, staging and treatment monitoring

- Breast

- Small parts

Strain Elastography

Strain Elastography software from GE Healthcare estimates the strain, or tissue deformation, in the region of interest after compression with the probe. It provides a cost-effective option for practices that want a non-invasive qualitative means to assess tissue stiffness in such applications, as liver (focal lesions), breast, small parts, urology, and musculoskeletal.

Imagination at work

January 2017
JB45581XX