

**Procedure Name:                      Liver Elastography**

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**Indications:**

Fibrosis staging of chronic liver disease, with the main objective of determining the presence or absence of advanced fibrosis.

**General Description:**

This is a screening to assess the stiffness of the liver and thus stage the degree of fibrosis.

**Patient Preparation:**

NPO for 6 hours.

**Equipment Selection and Settings:**

Select abdomen from preset menu. A curvilinear 6 MHz transducer will be used for most patients.

**Positioning of Patient, Transducer and ROI:**

1. Patient should be supine or slight (30°) left lateral decubitus position with right arm elevated above the head to increase intercostal space
2. An intercostal approach to the right lobe of the liver is preferred
3. Measurement should be taken during breath hold in a neutral breathing position.
4. Optimize the B-mode image for the best acoustical window avoiding large vessels, bile ducts, gallbladder, rib shadows and bowel gas
5. ROI should be placed 2cm below Glisson capsule
6. ARFI pulse should be perpendicular to the liver capsule

**Imaging:**

1. Image patient data (demographics page)
2. If abdomen complete or limited is also requested, perform those required images first
3. With elastography turned on, choose liver assessment, site 1
4. The patient only needs to hold his or her breath for a few seconds; it may be helpful to practice the breath hold with the patient prior to initiating elastography; obtaining a measurement in deep inspiration or with a Valsalva maneuver can give inaccurate measurement
5. Obtain ten measurements in the same location
6. Fill out worksheet