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**Endoscopic ultrasound in chronic liver disease**

Fung BM *et al.* EUS in chronic liver disease

Brian M Fung, Alexander P Abadir, Armen Eskandari, Michael J Levy, James H Tabibian

### Abstract

Endoscopic ultrasound (EUS) is a minimally invasive diagnostic and therapeutic modality with a number of established as well as evolving uses in patients with chronic liver disease. Compared to other diagnostic tools such as cross-sectional imaging or conventional endoscopy, EUS has been shown to increase diagnostic sensitivity and therapeutic success for many clinical scenarios and applications with a low rate of adverse events. In this review, we discuss and focus on the current and growing role of EUS in the evaluation and/or treatment of hepatobiliary masses, hepatic parenchymal disease, portal hypertension, esophageal and other varices, and indeterminate biliary strictures.

**Key words:** Endoscopy; Cirrhosis; Liver mass; Liver biopsy; Variceal bleeding

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**Endoscopic ultrasound** (EUS) is a minimally invasive procedure to assess digestive (gastrointestinal) and lung **diseases**. A special **endoscope** uses high-frequency sound waves to produce detailed images of the lining and walls of your digestive tract and chest, nearby organs such as the pancreas and **liver**, and lymph nodes.

Endoscopic ultrasound - Mayo Clinic

[www.mayoclinic.org/tests-procedures/endoscopic-ultrasound/about/pac-20385171](http://www.mayoclinic.org/tests-procedures/endoscopic-ultrasound/about/pac-20385171)

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**Endoscopic ultrasound-guided liver biopsy (EUS-LB)** is another method of acquiring **liver tissue** 8 9. The feasibility of **EUS-LB** for **liver lesions** has been validated in several studies, yielding excellent diagnostic results 8 9 10 11 12.

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Traditionally, **liver biopsies** have been performed using a 14 g or 16 g needle, utilizing percutaneous

## Endoscopic Ultrasound

A test done in combination of ultrasound imaging and endoscopy to monitor the organ for determination of digestive ... [+](#)

**Type:** Imaging

**Duration:** Usually 2-3 hours

**Results available:** Usually 30-60 mins

**Is Invasive:** Invasive

### Conditions it may diagnose

#### Colon Cancer

Common

Colorectal cancer, also known as

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#### Neuroendocrine C...

Rare

A condition in which cancer develops in the neuroendocrine

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### Preparation





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**Liver** biopsy has traditionally been used for determining the degree of fibrosis, however there are several limitations. **Endoscopic ultrasound** (EUS) real-time elastography (RTE) is a novel technology that uses image enhancement to display differences in tissue compressibility.

[A Prospective Blinded Study of Endoscopic Ultrasound ...](#)

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6327728>

Traditionally, **liver biopsies** have been performed using a 14 g or 16 g needle, utilizing percutaneous or surgical means<sup>672021222324252627282930</sup>. In recent years, use of EUS as a method for **procuring liver tissue** has gained traction with excellent tissue yields<sup>89</sup>.

**Cited by:** 9

**Author:** Shaffer R. S. Mok, David L. Diehl, Amitpal...

**Publish Year:** 2019

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A test done in combination of ultrasound imaging and endoscopy to monitor the organ for determination of digestive diseases.

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[Read more](#)

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### Preparation

- Do not consume any foods or beverages before at least 6 to 8 hours of the test.
- Laxatives and enema are given to clear the rectum.
- Medications should be taken and discontinued after consulting the doctor.
- Sedatives may be given to ease the procedure which may require an adult accompaniment.

### During the test