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Ultrasound liver elastography beyond liver fibrosis assessment

 Ferraioli G *et al.* LS beyond fibrosis

Giovanna Ferraioli, Richard G Barr

Abstract

Several guidelines have indicated that liver stiffness (LS) assessed by means of shear wave elastography (SWE) can safely replace liver biopsy in several clinical scenarios, particularly in patients with chronic viral hepatitis. However, an increase of LS may be due to some other clinical conditions not related to fibrosis, such as liver inflammation, acute hepatitis, obstructive cholestasis, liver congestion, infiltrative liver diseases. This review analyzes the role that SWE can play in cases of liver congestion due to right-sided heart failure, congenital heart diseases or valvular diseases. In patients with heart failure LS seems directly influenced by central venous pressure and can be used as a prognostic marker to predict cardiac events. The potential role of LS in evaluating liver disease beyond the stage of liver fibrosis has been investigated also in the hepatic sinusoidal obstruction syndrome (SOS) and in the Budd-Chiari syndrome. In the hepatic SOS, an increase of LS is observed

Match Overview

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Cited by: 2 Author: Manish Dhyani, Feixiang Xiang, Qian Li, ...

Publish Year: 2018

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Chronic liver disease is a substantial worldwide problem. Its major consequence is increasing deposition of fibrous tissue within the liver, leading to the development of cirrhosis with its consequences, portal hypertension, hepatic insufficiency, and hepatocellular carcinoma (HCC). Different histologic stages of progressive liver fibrosis have been described, from no fibrosis (METAVIR stage F0) to the cirrhotic stage (METAVIR stage F4). As fibrosis progresses, there is increasing portal hype...

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Cited by: 275 Author: Richard G. Barr, Giovanna Ferraioli, Mark...

Publish Year: 2015

Images of Ultrasound Shear Wave Elastography Beyond Liver ...

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Transient Elastography

Assesses the condition of the liver, and helps to diagnose liver conditions such as fibrosis and cirrhosis.

- Type: Imaging
- Duration: Usually 10-20 mins
- Results available: Almost immediate
- Is Invasive: Noninvasive
- Ability to confirm condition: High
- Ability to rule out condition: High
- Normal value(s): < 6 kPa

Conditions it may diagnose

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PEOPLE ALSO ASK

What is the clinical indication for liver elastography? ▾

What is the stage of liver fibrosis? ▾

What is the difference between stiffness and assessment of liver fibrosis? ▾

What are the drawbacks of liver biopsy? ▾

Feedback

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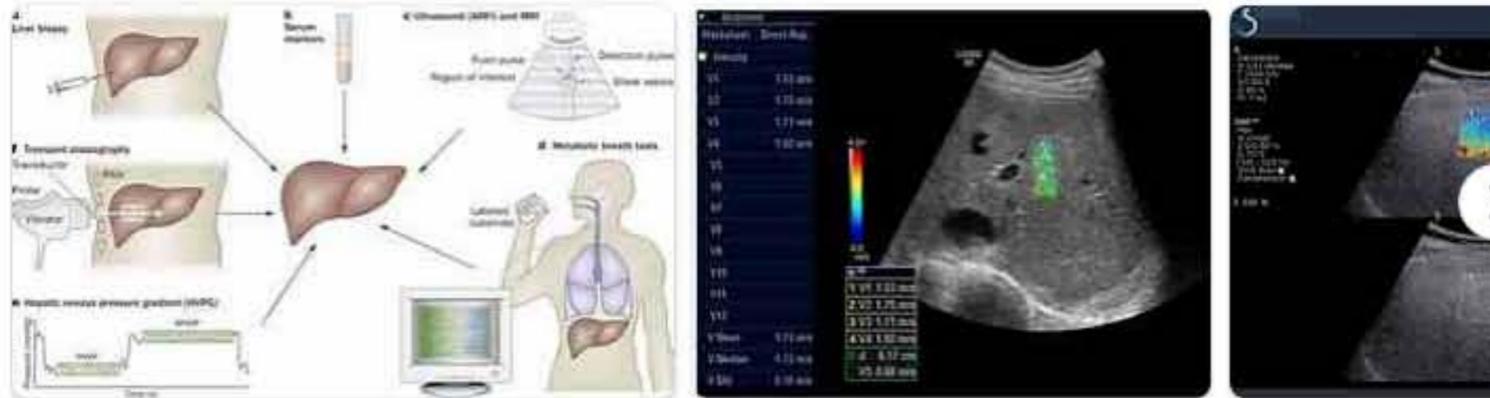
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What is the clinical indication for liver elastography?

What is liver fibrosis?

What is the accuracy of ultrasound shear wave elastography?

What are the drawbacks of liver biopsy?

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Cirrhosis of the Liver

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Cirrhosis, also known as liver cirrhosis or hepatic cirrhosis, is a condition ...

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Preparation

- The provider might ask to not consume any food for at least 3 hours before the test.
- Wear comfortable, loose-fitting clothes.

During the test