

11

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 55146

Manuscript Type: MINIREVIEWS

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

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Ultrasound shear wave elastography: Variations of liver fibrosis assessment as a function of depth, force and distance from central axis of the transducer with a comparison of different systems

Cited by: 2

Author: Manish Dhyani, Feixiang Xiang, Qian Li, ...

Publish Year: 2018

Elastography Assessment of Liver Fibrosis: Society of ...

<https://pubs.rsna.org/doi/full/10.1148/radiol.2015150619>



Introduction

Methods and Conference Pre...

Background

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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

[See all \(5+\)](#)

Hepatitis B

Common

Hepatitis B is an infectious disease caused by the hepatitis B virus ...

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Cirrhosis of the Liver

Common

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

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Ultrasound-based elastography has **rapidly replaced the need for liver biopsy in most patients with chronic liver disease in recent years**. The technique is now widely supported by many manufacturers.

Ultrasound-based liver elastography in the assessment of ...

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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

Elastography Assessment of Liver Fibrosis: Society of ...

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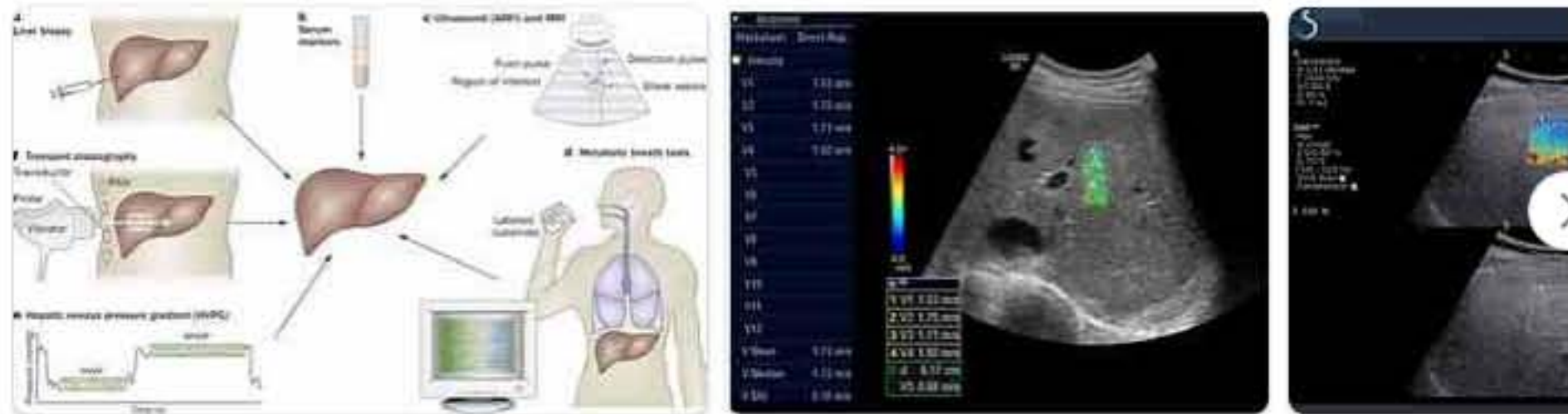
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PEOPLE ALSO ASK

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?

Feedback

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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