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Apr 01, 2014 · The **shear wave** velocity is known to depend on the **hardness** of the target tissue: the harder the target tissue is, the faster the **shear wave** velocity is shown. Clinical **use** of point **shear wave elastography** has been established to some extent as a non-invasive assessment of liver fibrosis in the field of gastroenterology , , , . Because most ...

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Author: Natsuko Kawada, Sachiko Tanaka, Hiroyuki...

Publish Year: 2014

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The aim of this study was to differentiate malignant from benign focal liver lesions (FLLs) using **two-dimensional shear wave elastography** (2D-SWE)-based ultrasomics. MethodsA total of 175 FLLs in ...

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Name of Journal: *World Journal of Gastrointestinal Surgery*
Manuscript NO: 58782
Manuscript Type: ORIGINAL ARTICLE

Retrospective Study
Model for liver hardness using two-dimensional shear wave elastography, durometry, and preoperative biomarkers

Abstract

BACKGROUND

Post-hepatectomy liver failure (PHLF) increases morbidity and mortality after liver resection for patients with advanced liver fibrosis and cirrhosis. Preoperative liver stiffness using 2-dimensional shear wave elastography (2D-SWE) is widely used to evaluate the degree of fibrosis. However, the 2D-SWE results were not accurate. A durometer measures hardness by quantifying the ability of a material to locally resist the intrusion of hard objects into its surface. However, the durometer score can only be

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Assessing liver tumor stiffness by transient elastography

https://www.researchgate.net/publication/26730901_Assessing_liver_tumor_stiffnes s_by...

Two-dimensional shear wave elastography is a new technique and provides a real-time stiffness image. Serum fibrosis markers have been studied based on ...

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[3][4][5][6][7][8][9][10][11][12] To resolve the difficulties described above, **shear wave** elasticity imaging methods **using shear wave elastography** or transient **elastography** (TE) have been ...

Quantitative assessment of liver fibrosis using shore ...

<https://thesurgery.or.kr/Synapse/Data/PDFData/6037ASTR/astr-93-300.pdf> ▾

Quantitative assessment of **liver** fibrosis **using** shore **durometer** Young Chul Yoon, Jun Suh Lee, Sang Uk Park, ... **hardness** was correlated with the **preoperative** tests. There was a difference between surface SU and specimen SU, presumably ... et al. **Shear wave elastography** results correlate with **liver** fibrosis histology

Real-Time Elastography for Noninvasive Assessment of Liver ...

https://www.researchgate.net/publication/6493797_Real-Time_Elastography_for...

Recently, **elastography**, an imaging method, has been shown to be a reliable method of assessing I F [9][10][11] and studies have shown that **shear-wave elastography** (SWE) and