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Prospective Study

Value of shear wave elastography with maximal elasticity in differentiating benign and malignant solid focal liver lesions

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Abstract

BACKGROUND

It is important to differentiate benign and malignant focal liver lesions (FLLs) accurately. Despite of the wide use and acceptance of shear wave elastography (SWE), its value for assessing the elasticity of FLLs and differentiating benign and malignant

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Use of shear wave elastography to differentiate benign and ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4463348

Feb 07, 2014 · Factors affecting **shear wave elastography measurements** for benign and malignant lesions We observed that the elasticity values of malignant lesions varied by lesional grade (P < 0.02). **Low-grade lesions** (**ductal carcinoma** in situ and grade 1 lesions) had lower minimum, mean, and maximum **elasticity values** than did high-grade lesions (Fig. 5 , Table 4).

Cited by: 81 **Author:** Deniz Çebi Olgun, Bora Korkmazer, Fah...
Publish Year: 2014

Maximum Value Measured by 2-D Shear Wave Elastography ...

https://www.sciencedirect.com/science/article/pii/S030156291630059X

Sep 01, 2016 · **E max values measured** by 2-D **shear wave elastography** of focal liver lesion appear to help in **differentiating malignant** from **benign** lesions with good reproducibility, and **E max** of adjacent liver parenchyma help in **differentiating hepatocellular carcinoma** and intrahepatic cholangiocarcinoma from liver metastasis, focal nodular hyperplasia and hemangioma.

Cited by: 15 **Author:** Wen-Shuo Tian, Man-Xia Lin, Lu-Yao Z...
Publish Year: 2016

Shear wave elastography-based ultrasomics: differentiating ...

https://link.springer.com/content/pdf/10.1007/s00261-020-02614-3.pdf

Jun 20, 2020 · Ultrasomics is a radiomics technique that extracts high-throughput quantitative data from ultrasound imaging. 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. A total of 175 FLLs in 169 patients were prospectively analyzed.

Author: Wei Wang, Jian-Chao Zhang, Wen-S... **Publish Year:** 2020

Does Lesion Size Affect the Value of Shear Wave ...

https://onlinelibrary.wiley.com/doi/full/10.1002/jum.14367

However, the diagnostic **value** of SWE for thyroid **lesions** is controversial, and the range of

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Use of shear wave elastography to differentiate benign and ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4463348

A total of 115 **solid** breast **lesions** of 109 consecutive patients were evaluated prospectively using **shear wave elastography** (SWE). Two orthogonal elastographic images of each lesion were obtained. ... mean **elasticity** of 112 kPa. **Maximum elasticity value** of the lesion, 125 ... We found that **elasticity** measures **differentiated benign** from **malignant** ...

Cited by: 82 **Author:** Deniz Çebi Olgun, Bora Korkmazer, Fahretti...
Publish Year: 2014

Value of Elastography in Differentiating Benign from ...

https://www.researchgate.net/publication/336348725_Value_of_Elastography_in...

Purpose: To analyze the diagnostic performance **of shear wave elastography** (SWE) **in differentiating** between **benign and malignant** breast **lesions**, with special emphasis on the **value** of the "stiff rim ...

Maximum Value Measured by 2-D Shear Wave Elastography ...

https://www.sciencedirect.com/science/article/pii/S030156291630059X

Sep 01, 2016 · E **max** values measured by 2-D **shear wave elastography** of **focal liver** lesion appear to help **in differentiating malignant** from **benign lesions** with good reproducibility, and E **max** of adjacent **liver** parenchyma help **in differentiating** hepatocellular carcinoma and intrahepatic cholangiocarcinoma from **liver** metastasis, **focal** nodular hyperplasia and ...

Cited by: 16 **Author:** Wen-Shuo Tian, Man-Xia Lin, Lu-Yao Zhou, ...
Publish Year: 2016

Diagnostic utility of strain and shear wave ultrasound ...

https://ejrnm.springeropen.com/articles/10.1186/s43055-020-00181-7

May 04, 2020 · The purpose of our study was to assess diagnostic performance and comparison of strain and **shear wave** ultrasound **elastography** for **differentiation** of **benign and malignant** breast **lesions** compared to histopathological diagnosis as a reference standard. Our single center study involved 100 female patients with 132 **solid** breast masses. All patients underwent supervision of medical history, ...

Author: Ahmed Tohamy Ahmed **Publish Year:** 2020

Diagnostic effect of shear wave elastography imaging for ...

https://bmcgastroenterol.biomedcentral.com/...

Apr 25, 2019 · **Shear wave elastography** (SWE) imaging have been proposed for characterization of **focal liver lesions**. We conducted a meta-analysis to evaluate the accuracy and clinical utility of SWE imaging for **differentiation** of **malignant** and **benign** hepatic **lesions**. PubMed, Embase, Web of Science, and the Cochrane Library were systematically reviewed to search for studies published between January 1, ...

Cited by: 2 **Author:** Xing Hu, Xiaojie Huang, Hui Chen, Tong Zh...

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Use of shear wave elastography to differentiate benign and ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4463348

The **minimum**, mean, and **maximum elasticity values**, and the **mass/fat elasticity ratios** of malignant lesions, were significantly higher than those of **benign lesions**. The **cutoff value** was 45.7 kPa for mean **elasticity** (sensitivity, 96%; specificity, 95%), 54.3 kPa for **maximum elasticity** (sensitivity, 95%; specificity, 94%), 37.1 kPa for **minimum elasticity** (sensitivity, 96%; specificity, 95%), and 4.6 for the mass/fat ...

Cited by: 83 **Author:** Deniz Çebi Olgun, Bora Korkmazer, Fahretti...
Publish Year: 2014

Maximum Value Measured by 2-D Shear Wave Elastography ...

https://www.sciencedirect.com/science/article/pii/S030156291630059X

Sep 01, 2016 · E max values measured by 2-D shear wave elastography of **focal liver lesion** appear to help in differentiating malignant from benign lesions with good reproducibility, and E max of adjacent **liver parenchyma** help in **differentiating hepatocellular carcinoma** and **intrahepatic cholangiocarcinoma** from liver metastasis, **focal nodular hyperplasia** and hemangioma.

Cited by: 16 **Author:** Wen-Shuo Tian, Man-Xia Lin, Lu-Yao Zhou, ...
Publish Year: 2016

Shear-Wave Elastography of the Breast: Value of a Quality ...

https://pubs.rsna.org/doi/full/10.1148/radiol.14132404

With **SW elastography**, **V** s in meters per second (or, converted to the Young **modulus** = 3V s 2, in kilopascals) is used to determine whether a lesion is **benign** or malignant (4,5,14), with researchers in previous studies using a **value of less** than 3.3 m/**sec** to 5.2 m/**sec** as a cutoff for **benign lesions**.

Cited by: 116 **Author:** Richard G Barr, Zheng Zhang
Publish Year: 2015

Role of shear wave sono-elastography (SWE) in ...

https://ejrnm.springeropen.com/articles/10.1186/s43055-020-00186-2

Apr 24, 2020 · **Focal liver lesions** are considered a major problem during abdominal examinations. **Shear wave** sono-**elastography** (SWE) has been demonstrated to be helpful in assessment of **liver** fibrosis degree. The purpose of this study was to evaluate the role of SWE in characterization of **benign and**