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Observational Study

Role of shear wave elastography in the evaluation of the treatment and prognosis of supraspinatus tendinitis

Zhou J *et al.* Evaluation of supraspinatus tendinitis by SWE

Jie Zhou, De-Bin Yang, Jing Wang, Hui-Zhang Li, Ying-Chun Wang

Abstract

BACKGROUND

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supraspinatus tendon tears: Topics by Science.gov

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Dec 01, 2017 · Open reinsertion of a **supraspinatus full-thickness tear** associated with a thorough treatment of **partial tear** of adjacent tendons led to optimal functional and anatomical mid term outcomes. Our results suggest the presence of a partial tear of adjacent tendons could be associated with poorer function in case of **supraspinatus tendon re-rupture**.

chronic rotator cuff: Topics by Science.gov

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Axial-strain sonoelastography and shear-wave elastography are relatively new, **real-time imaging techniques** that **evaluate** the mechanical properties of tendons in addition to the existing ...

Rotator Cuff Tears: Clinical, Radiographic, and US Findings1

https://www.researchgate.net/publication/7484545_Rotator_Cuff_Tears_Clinical...

Purpose: This study investigated whether **shear wave elastography (SWE)** could be used to estimate the **chronicity** of **supraspinatus tendon (SST)** tears. Methods: A **retrospective study** was performed.

Weiwei Zhan's research works | Renji Hospital, Shanghai ...

https://www.researchgate.net/scientific-contributions/75780053_Weiwei_Zhan

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** ...

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Short-term outcomes of **extracorporeal shock wave therapy** for the treatment of **chronic non-calcific tendinopathy** of the **supraspinatus**: a double-blind, randomized, placebo-controlled trial. CMS , ...



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Ultrasound elastography of the supraspinatus tendon guided ...

[https://www.researchgate.net/publication/282248630...](https://www.researchgate.net/publication/282248630)

Shear wave elastography has proved to be cost-effective for the evaluation of the Achilles tendon in healthy volunteers and was able to monitor the evolution of one patient with old tendon rupture...

Tendinosis: Pathophysiology and Nonoperative Treatment

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3445129>

Tendinosis is a problematic condition affecting many active people. 5 Significant advances in understanding tendon response to mechanical loading have been made, but a complete picture of the pathophysiology of tendinosis is still elusive. The ability to prevent this condition and to restore normal structure and function after the establishment of a tendinosis lesion continues to be a ...

Cited by: 20

Author: Christopher Kaeding, Thomas M. Best

Publish Year: 2009

Weiwei Zhan's research works | Shanghai Jiao Tong ...

https://www.researchgate.net/scientific-contributions/75780053_Weiwei_Zhan

Weiwei Zhan's 54 research works with 321 citations and 1,857 reads, including: A study of spleen shear-wave elastography in indirect prediction of liver fibrosis in patients with chronic hepatitis B

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Low-energy extracorporeal shock-wave treatment (ESWT) for tendinitis of the supraspinatus. A prospective, randomised study. ... Application of shear wave elastography and B-mode ultrasound in patellar tendinopathy after extracorporeal shockwave therapy. ... Extracorporeal shock wave therapy role in the treatment of burn patients. A systematic ...

Comparison of Supervised Exercise With and Without ...

<https://www.jospt.org/doi/abs/10.2519/jospt.2000.30.3.126>

Mar 01, 2000 · Extracorporeal Shock-Wave Therapy for Supraspinatus Calcifying Tendinitis: A Randomized Clinical Trial Comparing Two Different Energy Levels Physical Therapy, Vol. 92, No. 11 Current Concepts in Subacromial Impingement and the Role of Acromioplasty

Cited by: 483

Author: Michael D. Bang, Gail D. Deyle



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[The Role of Ultrasound and Shear-Wave Elastography in ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6515176>

Apr 30, 2019 - To evaluate the prognostic value of ultrasound and **shear-wave elastography** (SWE) in diagnosing malignant cervical lymph nodes. Methods A total of 99 patients with enlarged lymph nodes (99 lymph nodes presenting as a neck mass) were examined clinically with conventional ultrasound including Doppler examination and **shear-wave elastography**.

Cited by: 1

Author: Jan Heřman, Zuzana Sedláčková, Tomáš...

Publish Year: 2019

[The Evolving Role of Shear Wave Elastography in the ...](#)

<https://insights.ovid.com/ultrasound-quarterly/...>

Ultrasound shear wave elastography (SWE) utilizes the propagation of induced shear waves to provide a quantitative measurement of elasticity of **soft tissue**. Studies attempting to prove SWE as a strong predictor of **malignant prostatic tissue** have validated its high specificity and sensitivity compared to the sub-50% range observed with **magnetic resonance imaging** or transrectal ultrasound.

Author: Jason Gandhi, Saher Zaidi, Janki Sha...

Publish Year: 2018

[\(PDF\) The Evolving Role of Shear Wave Elastography in the ...](#)

<https://www.researchgate.net/publication/329493037...>

Ultrasound shear wave elastography (SWE) utilizes the propagation of **induced shear waves** to provide a quantitative measurement of **elasticity of soft tissue**.

[Shear-Wave Elastography: Basic Physics and Musculoskeletal ...](#)

<https://pubs.rsna.org/doi/full/10.1148/rg.2017160116>

SWE has a promising **role** in determining the severity of **disease and treatment follow-up** of various musculoskeletal tissues including tendons, muscles, nerves, and ligaments. This article describes the basic **ultrasound physics** of SWE and its applications in the **evaluation** of various traumatic and pathologic conditions of the musculoskeletal system.