

Pre-op fat fractions in rotator cuff muscles ID post-op retear

July 28 2016



(HealthDay)—Magnetic resonance (MR) imaging of preoperative fat

fractions within the rotator cuff muscles may be able to help predict postoperative re-tear, according to a study published in the August issue of *Radiology*.

Taiki Nozaki, M.D., Ph.D., from St. Luke's International Hospital in Tokyo, and colleagues conducted a prospective study to determine the degree of [postoperative](#) fatty degeneration within muscles. They recruited 50 patients with full-thickness supraspinatus tears. Using a two-point Dixon MR imaging sequence they quantified the degrees of preoperative and postoperative fatty degeneration; the mean signal intensity on in-phase and fat [images](#) was measured by two radiologists. At baseline preoperative and at postoperative one-year follow-up, MR imaging estimates of fatty degeneration were calculated. Preoperative fat fractions were compared for the failed-repair and intact-repair groups.

The researchers found that the failed-repair group had significantly higher preoperative fat fractions in the supraspinatus [muscle](#) than the intact-repair group (37.0 versus 19.5 percent; P

"MR imaging quantification of preoperative fat fractions by using a two-point Dixon sequence within the rotator cuff muscles may be a viable method for predicting postoperative re-tear," the authors write.

One author disclosed financial ties to Nihon Medi-Physics.

More information: [Full Text \(subscription or payment may be required\)](#)

Copyright © 2016 [HealthDay](#). All rights reserved.

Citation: Pre-op fat fractions in rotator cuff muscles ID post-op re-tear (2016, July 28) retrieved 27 April 2024 from

<https://medicalxpress.com/news/2016-07-pre-op-fat-fractions-rotator-cuff.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.