New 3-Dimensional Analytical Strategy for Predicting Fatty Infiltration in the Supraspinatus

Fatty infiltration (FI) of the rotator cuff (RC) muscles is a common risk factor for retear following RC repair. However, comprehensive 3-dimensional FI evaluation requires labor-intensive segmentation and time-consuming post-processing.

A retrospective study was conducted to determine the possibility of predicting the overall FI from localized sectional accumulation unit (SAU) FIs. The study included 46 patients with atraumatic small-to-massive RC tears. 6-point Dixon MRI slices of the overall supraspinatus were analyzed.

The 3-Dimensional Fatty Infiltration in the Overall Supraspinatus Can Be Predicted by Localized Sectional Accumulation Units. A Cross-Sectional Study in Patients with Atraumatic Small-to-Massive Rotator Cuff Tears
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Assessment of specific localized SAUs could optimize and expedite the prediction of overall FI of RC muscles.