Review of: "CNN-MRI Detection of Fatty Infiltration, Rotator Cuff and Infraspinatus Muscle Atrophy in Shoulder Pain Patients"

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Potential competing interests: No potential competing interests to declare.

This paper introduces a CNN model for accurately diagnosing shoulder fractures, particularly focusing on fatty degeneration and rotator cuff tears from MRI images. Its potential impact lies in facilitating early detection, appropriate treatment, and predicting complications like cuff tear arthropathy (CTA), ultimately improving patient outcomes and reducing healthcare burdens.

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The performance measure used in this work is not clearly shown. Based on the provided information, the paper should be considered for acceptance with major revisions. While it contributes valuable insights into shoulder fracture diagnosis and fatty degeneration progression, addressing limitations such as the small patient cohort and retrospective nature would enhance the robustness and reliability of the findings. With revisions to mitigate these weaknesses, the paper could make a valuable contribution to the field and warrant acceptance for publication.

Give a clear explanation and comparison with SOTA approaches.