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REVIEWER'S REPORT

Manuscript No.: IJAR-59690

Title: Quantitative Assessment of Glenohumeral Cartilage Using MRI T2 Relaxometry for Early Degeneration Detection: A Prospective Study

Recommendation:
Accept as it is □□□□..
Accept after minor revision□√□□
Accept after major revision □□□□□
Do not accept (*Reasons below*) □□□

Rating	Excel.	Good	Fair	Poor
Originality		√		
Techn. Quality		√		
Clarity		√		
Significance		√		

Reviewer ID: JP085

Reviewer's Comment for Publication.
The article discusses the use of MRI T2 relaxometry for detecting early cartilage degeneration in the shoulder joint. The topic is relevant and has clinical importance. However, the study has a small sample size, limited statistical analysis, and insufficient explanation of some important methods. The conclusions are stronger than the results presented.

Strength:

1. The research topic is relevant and clinically useful.
2. The study uses a prospective research design.
3. MRI T2 relaxometry is a non-invasive technique.
4. Standardized MRI protocols were used.
5. Both Siemens and GE MRI scanners were included.
6. The study explains the MRI procedure and ROI measurements.
7. Tables and figures help present the results clearly.
8. The article highlights the importance of early cartilage degeneration detection.
9. The technique may provide additional information beyond conventional MRI.

Weakness:

1. The sample size is very small (only 18 patients).
2. The study duration is short (only three months).
3. No healthy control group was included.
4. Normal T2 values are not clearly explained.
5. Statistical analysis is limited.
6. No comparison of diagnostic accuracy with conventional MRI is provided.
7. Reliability of manual measurements is not reported.

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Overall assessment:
The topic is useful, but the authors need to improve the methodology, statistical analysis, and presentation of results. The conclusion should also be modified because the current findings do not sufficiently establish the diagnostic reliability or improved sensitivity of MRI T2 relaxometry.

Recommendation: Manuscript accepted for publication after minor revision.