

REVIEWER'S REPORT

Manuscript No.: IJAR- 50824

Date: 27/03/2025

Title: "Functional Outcome of De-Quervain Tenosynovitis Managed by Surgical Release"

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 Name: Dr. S. K. Nath

Date: 27/03/2025

Reviewer's Comment for Publication:

This study provides valuable insights into the effectiveness of surgical release for de Quervain's tenosynovitis, showing excellent functional outcomes with minimal complications. However, limitations such as a small sample size, lack of long-term follow-up, and absence of a control group reduce the strength of its conclusions. Future research with a larger, more diverse sample and comparative analysis against non-surgical treatments would enhance the validity of these findings.

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Strengths:

- 1. Clear Research Objective:** The study effectively states its aim—to evaluate the functional outcomes of surgical release for de Quervain's tenosynovitis.
- 2. Methodology Clarity:** The observational study design is well-outlined, specifying patient selection criteria, surgical technique, and outcome measures (Modified MAYO wrist score). Parameters like pain, functional status, range of motion, and grip strength provide a comprehensive evaluation.
- 3. Relevant Discussion and Literature Support:** The discussion is well-supported with past research and comparisons to similar studies. The study highlights variations in tendon anatomy and their surgical implications, adding to clinical knowledge.
- 4. Objective Outcome Measures:** The use of the Modified MAYO wrist score ensures a standardized assessment of results. The study finds that 100% of patients showed good or excellent post-surgical outcomes, reinforcing the efficacy of the procedure.
- 5. Concise and Focused Conclusion:** The conclusion aligns well with the findings and provides a balanced summary, acknowledging that while surgery is highly effective, conservative treatment should be considered for early-stage cases.

Weaknesses:

- 1. Small Sample Size:** The study includes only 40 patients, limiting the generalizability of its findings. A larger sample size could improve statistical power and reliability.
- 2. Short Follow-up Duration:** Patients were only followed for a mean period of two months. Long-term functional outcomes, recurrence rates, and complications beyond this period remain unknown.

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3. Lack of Control Group: The study does not compare surgical intervention to conservative treatments like steroid injections or splinting. A comparative study would strengthen claims about the superiority of surgical intervention.

4. Limited Statistical Analysis: While results are presented in percentages, a more detailed statistical analysis (e.g., p-values, confidence intervals) could provide stronger evidence for significance.

5. Potential Bias in Patient Selection: The study is conducted in a single institution, which may introduce selection bias. There is no mention of randomization or blinding, which could influence the study's objectivity.