

## REVIEWER'S REPORT

Manuscript No.: IJAR- 51993

Date: 29/05/2025

**Title:** Preoperative Marking of a Parathyroid Adenoma: A Case Report with Literature Review

### 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: 29/05/2025

### Reviewer's Comment for Publication:

This case report effectively illustrates the importance of a multidisciplinary approach and effective localization strategies, including methylene blue marking, in the surgical management of primary hyperparathyroidism. The integration of clinical, imaging, and intraoperative techniques enhances surgical success and patient outcomes. However, further studies with larger cohorts and long-term follow-up are needed to validate these approaches and assess potential risks.

## Reviewer's Comment / Report

### Strengths:

- **Comprehensive Clinical Approach:** The paper provides a detailed case presentation, including patient history, diagnostic workup, and surgical management, which offers valuable insights into the clinical management of parathyroid adenomas.
- **Use of Imaging and Localization Techniques:** It emphasizes the importance of imaging modalities like ultrasound and sestamibi scans, along with intraoperative strategies such as methylene blue marking, for precise localization.
- **Interdisciplinary Collaboration:** Highlights the cooperation between endocrinologists and surgeons as a key factor in successful detection and management, advocating for a team-based approach.
- **Historical and Literature Context:** The review includes historical references to parathyroidectomy, use of methylene blue, and previous studies, providing a well-rounded background.

### Weaknesses:

- **Limited Scope of Data:** The paper is primarily a case report with references to other studies but lacks a large patient cohort or statistical analysis to generalize findings.
- **Insufficient Discussion of Risks/Complications:** There is minimal discussion regarding potential adverse effects of dye use (e.g., methylene blue) and intraoperative challenges.
- **Lack of Long-term Follow-up Data:** The report mentions immediate postoperative outcomes but does not elaborate on long-term follow-up or recurrence rates.
- **Incomplete Literature Review:** While references are cited, a systematic review or meta-analysis might strengthen the evidence base.