

REVIEWER'S REPORT

Manuscript No.: IJAR-55306

Title: Squamous Cell Carcinoma Arising in an Ovarian Mature Cystic Teratoma: A Case Report and Review of the Literature

Recommendation:

Accept as it is

Accept after minor revision.....X.....

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		X		
Techn. Quality		X		
Clarity		X		
Significance		x		

Reviewer Name: Dr. Mohammad Nadeem Khan

Detailed Reviewer's Report

General Assessment

This manuscript presents a rare and clinically significant case of squamous cell carcinoma arising in a mature cystic teratoma of the ovary, supported by a concise review of the literature. Given the rarity (0.2–2%) and aggressive nature of malignant transformation in mature cystic teratomas, the case contributes valuable clinical insight, particularly regarding diagnostic challenges, staging, treatment decisions, and outcomes. The manuscript is well structured, clinically relevant, and aligns with the scope of a case report with literature review. Overall, the paper is suitable for publication after minor revisions.

Title and Abstract

The title is accurate, informative, and appropriately reflects the manuscript content. The abstract clearly summarizes the background, case details, management, and conclusion. Keywords are relevant and appropriately selected. Consider briefly mentioning the poor prognosis and therapeutic limitations in the abstract conclusion to further strengthen its impact.

Introduction

The introduction provides an adequate and focused background on mature cystic teratomas and their malignant transformation.

The epidemiology, histological subtype, and clinical relevance are clearly stated.

A brief mention of molecular or genetic alterations reported in recent literature would strengthen the rationale for the concluding statement on molecular sequencing.

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Case Report

The case presentation is clear, chronological, and clinically detailed. Diagnostic imaging, surgical interventions, histopathological findings, staging (FIGO IIIB), and treatment strategy are appropriately described. The clinical course and unfavorable outcome are reported transparently.

- The inclusion of multidisciplinary management and postoperative chemotherapy details enhances clinical value.
- Clarify whether tumor markers (e.g., SCC antigen, CA-125) were assessed pre- or post-operatively, as this may add diagnostic relevance.

Discussion

The discussion appropriately contextualizes the case within existing literature.

Prognostic factors, age relevance, and delayed diagnosis are well addressed.

The aggressive nature and poor outcomes are clearly emphasized.

Expand the discussion slightly on **current evidence for adjuvant chemotherapy and targeted therapies**, including bevacizumab, with supporting references.

Conclusion

The conclusion is clear, concise, and clinically meaningful.

The emphasis on diagnostic challenges and the potential role of molecular sequencing is appropriate and forward-looking.

Ethical Considerations

The case report complies with ethical standards.

No ethical concerns are identified.