

Peer Review

Review of: "Clear Cell Carcinoma of the Ovary with Disseminated Intravascular Coagulation and Haemoperitoneum with Tumour Rupture"

Hany Akeel Al-hussaniy¹

1. University of Baghdad, Iraq

Major Concerns

1. Claim of "First Documented Case"

The manuscript repeatedly states this is the first documented case of OCCC with acute DIC and haemoperitoneum.

This requires cautious wording because:

Rare associations may exist in grey literature or isolated reports.

A systematic literature search strategy is not described.

Suggested Revision

Replace with:

"To our knowledge, very few cases have been reported..."

And briefly describe the literature search methodology.

2. Incomplete Discussion of DIC Pathophysiology in OCCC

The discussion mentions tissue factor expression but lacks molecular insight. OCCC is known to exhibit:

HNF-1 β activation

Inflammatory cytokine upregulation

Procoagulant microvesicle release

Association with endometriosis-related inflammation

Adding a mechanistic explanation would strengthen scientific depth.

3. Limited Differential Diagnosis Discussion

The manuscript briefly acknowledges uncertainty regarding initial thrombocytopenia but should more clearly discuss:

Thrombotic microangiopathy

Sepsis-related coagulopathy

Immune thrombocytopenia

Drug-induced thrombocytopenia

Paraneoplastic microangiopathy

4. Lack of Formal DIC Scoring Presentation

The manuscript references ISTH scoring but does not show calculated score values.

Including ISTH score calculation would strengthen diagnostic validity.

Moderate Concerns

5. Limited Genetic and Molecular Characterization

The authors acknowledge the inability to perform mutation analysis. However, the discussion should mention:

ARID1A mutations (common in OCCC)

PIK3CA pathway activation

MSI and immunotherapy relevance

This would improve oncologic completeness.

Declarations

Potential competing interests: No potential competing interests to declare.