

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 87669

**Title:** Significance of oxidative stress and antioxidant capacity tests as biomarkers of premature ovarian insufficiency: A case control study

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03985747

**Position:** Peer Reviewer

**Academic degree:** DPhil

**Professional title:** Assistant Professor, Postdoc

**Reviewer's Country/Territory:** Iran

**Author's Country/Territory:** Japan

**Manuscript submission date:** 2023-08-25

**Reviewer chosen by:** Yu-Lu Chen

**Reviewer accepted review:** 2023-10-18 08:40

**Reviewer performed review:** 2023-10-25 07:41

**Review time:** 6 Days and 23 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

The authors have evaluated the oxidative stress and antioxidant capacity tests as biomarkers for early detection of POI. The main idea seems to be practical but I have some critical comments. Major comment: The results of the study have demonstrated that AMH levels and AFC are different significantly between IOF and POI groups; so, the routine items could be appropriate enough to diagnose early POI. Therefore, it seems that the measurements of the studied values are not required and also extra cost for early diagnosis of POI. Minor: FSH levels for IOF and POI groups have been overlapped. Please clarify FSH cut off for categorizing the groups. Is  $10.2 \text{ mIU/mL} \leq \text{FSH} \leq 40 \text{ mIU/mL}$  for IOF group??? Is  $\text{FSH mIU/mL} \leq 10.2 \text{ mIU/mL}$  for control group???