PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 74322

Title: Progesterone in gender-affirming therapy of trans women

Provenance and peer review: Invited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 05244179

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer’s Country/Territory: India

Author’s Country/Territory: Greece

Manuscript submission date: 2021-12-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-06 06:35

Reviewer performed review: 2022-01-07 06:01

Review time: 23 Hours

Scientific quality

[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good
[ Y] Grade D: Fair [ ] Grade E: Do not publish

Language quality

[ ] Grade A: Priority publishing [ Y] Grade B: Minor language polishing
[ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection

Conclusion

[ ] Accept (High priority) [ ] Accept (General priority)
[ ] Minor revision [ Y] Major revision [ ] Rejection

Re-review

[ Y] Yes [ ] No

Peer-reviewer

Peer-Review: [ ] Anonymous [ Y] Onymous
SPECIFIC COMMENTS TO AUTHORS
The article doesn't bring clarity for the role of Progesterone in gender-affirming therapy of trans women, as the title suggests. Description of progesterone role in trans women needs detailing, at present more focus is on progesterone role in general. The conclusion should specify the article's contribution towards existing literature with recent references.
PEER-REVIEW REPORT

Name of journal: *World Journal of Biological Chemistry*

Manuscript NO: 74322

Title: Progesterone in gender-affirming therapy of trans women

Provenance and peer review: Invited manuscript; externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 05720477

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Academic Research, Doctor

Reviewer’s Country/Territory: Italy

Author’s Country/Territory: Greece

Manuscript submission date: 2021-12-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-09 11:54

Reviewer performed review: 2022-01-09 14:04

Review time: 2 Hours

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<th>[ ] Grade A: Excellent</th>
<th>[Y] Grade B: Very good</th>
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<td>[ ] Grade D: Fair</td>
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| Re-review           | [Y] Yes                      | [ ] No                      |

| Peer-reviewer       | Peer-Review: [Y] Anonymous   | [ ] Onymous                 |
SPECIFIC COMMENTS TO AUTHORS
Dear Authors, I read your scientific contribution with great pleasure and attention. This is a minireview on the state of the art of the use of micronized P4, starting from a recapitulation of the main functions that this hormone, and more generally, progestogens, have and perform at a physiological level. I believe that, although the manuscript does not add essentially anything new to what is already known, presenting it as a minireview is, in fact, correct, and this may still be of interest to the readers of the World Journal of Biochemistry. I don't think I have any particular advice as the work is well conducted, structured and written.