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PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 84859

Title: Effect of vitamin supplementation on polycystic ovary syndrome and its key pathways: A Mendelian randomization study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04088889

Position: Associate Editor

Academic degree: MD

Professional title: Assistant Professor, Lecturer, Research Assistant Professor

Reviewer's Country/Territory: Algeria

Author's Country/Territory: China

Manuscript submission date: 2023-03-29

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-06-10 10:38

Reviewer performed review: 2023-06-23 00:34

Review time: 12 Days and 13 Hours

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 Grade E: Do not publish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



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

Dear Editor Thank you to give me the opportunity to review this manuscript This is a novel approach of exploring the evolving theme of diet/nutrition in polycystic ovary syndrome, and the authors' strategy seem interesting to unmask a possible gene-based nutritional management Despite some language issues and need of enhanced discussion in numerous points, the article ought to be considered after minor revision Respectfully yours Dr H Rahmoune We thank the authors for their innovative approach to a public health issue and their interesting genetic investigation The Mendelian randomization is a modern way to explore the genotype correlation in several conditions, i.e. metabolic and cardiovascular disorders However, the manuscript is based only on European genetic databases/data encompassing different vitamins and their possible association with the risk of PCOS The extracted data is not stratified according to the PCOS phenotype (major limit that the authors should report) The possible epigenetic effect ought to be cited , at least in the introduction The findings are very inspiring (possible role of lipophilic vitamins and vitamins B) but still hypothetic and need deeper and broader analysis Further real life and population-based studies are needed to confirm these

results (regarding the text, English should be revised and more recent references are required; systematic reviews and meta-analyses are also lacking : only 03 in the bibliography)