

Review of: "Effect of Supplementation with Moringa Oleifera on Antioxidant and Oxidative Stress Biomarkers of Infertile Women: A Pilot Open-Label Case-Control Randomized Clinical Study"

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Potential competing interests: No potential competing interests to declare.

Review Comments on the manuscript QEIOS CC BY 4.0<https://www.qeios.com/compose/edit/546PVM> : Overall comment

The manuscript titled Effect of Supplementation with Moringa Oleifera on Antioxidant and Oxidative Stress Biomarkers of Infertile Women: A Pilot Open-Label Case-Control Randomized Clinical Study

I carefully read the submission, and my first impression is that the paper contains new information and that the titles of the manuscript cover its content. The manuscript is well designed, and it has many experiments;

The summary is appropriate, and the aim of the work needs more clarification. The methods used are adequate and employ a sophisticated approach. I found the results very reliable. The discussion and conclusions are well documented and scientifically coherent. However, the manuscript needs more attention from the authors to make it more scientifically acceptable and understandable to readers. There are some points that need to be corrected.

Major points:

Authors need to write more on the introduction, taking more information about participants included in this study (categories, females, ages, why 35-50?.....)

The methodology of the experimental part is well established. Although in this section, the Authors should add details of the methodology used in sample collection (blood). Also, more detail on (SPSS) analysis is needed; observations seem to be very few, and statistical data needs to be performed to have statistical reliability.

The conclusions should be integrated with a few detailed results summarizing all the study and must reflect the innovation

of this study and the perspectives, robustness, and data reproducibility.

In conclusion, the research problem and the purpose of the work have been formulated correctly, and the methods need to be adequately described. The results are clearly presented, the statistical tests used are appropriate and need more detail, and the conclusions are supported by the results and discussion sufficiently detailed. The research design would be appropriate if any more information was given about the other participants' samples used.

The paper needs a major revision according to the comments reported above.