

# Review of: "Effect of Supplementation with *Moringa oleifera* on Antioxidant and Oxidative Stress Biomarkers of Infertile Women: A Pilot Open-Label Randomized Clinical Trial"

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Potential competing interests: No potential competing interests to declare.

This work evaluates the antioxidant effect of *Moringa oleifera* on a group of women with infertility. I find the topic very interesting since there are not so many studies with a clinical basis that can give an overview of the real effect of these foods with bioactive components on a particular group of individuals.

I find the methodology used correct, particularly the selection of the groups of individuals and the criteria taken into account.

I congratulate the authors for this very interesting work and below I describe some questions for them

1. In the materials and methods section, the amount of *Moringa oleifera* administered as well as the way in which it was done is mentioned. Is there any previous study or reference that has been used to choose this dose and type of administration?
2. In the introduction, it is mentioned that there is a lack of clinical studies and information on the effect of this plant on infertility, making it necessary to evaluate and document its clinical usefulness. My question is whether this plant is currently consumed in this region of the country, informally or without professional indication, by infertile women with the aim of improving their situation. There are many of these foods whose beneficial effect is clearly accepted in the communities that have consumed them for many years and whose validity, provided by this type of clinical trials, is extremely important.
3. In the results section, Table 1 shows the baselines of the parameters evaluated for fertile and infertile women. In Table 2, the baseline obtained for infertile women (in Table 1) is directly compared with the values obtained for infertile women after supplementation. I understand that this was done since the numbers of this group in both tables are the same. This baseline for group 1 was not measured again after the 4 weeks along with the measurement of the values of group 2? This could have been interesting, considering the presence of some environmental factors, for example, the effects of the Covid-19 pandemic, which is rightly mentioned in this article as a limitation when conducting the trial.
4. In the discussion, although the bioactive compounds of the plant leaf and their relationship with its antioxidant activity are mentioned, it would be interesting to mention if there is information on any particular compound that can be related to this bioactivity, for example, polyphenols.

