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.

General Comments

The article is written well, has good flow, and is easily understood. I enjoyed reading the article. There are many studies assessing the effect of *Moringa Oleifera* on different animal models. This study offers insight into its effects on human physiology.

Abstract

Methods are well written, results are described, and reasonable conclusions are made.

Introduction

The background is well written, highlighting causes of infertility and how oxidative stress may contribute to infertility. It would be good to cite studies conducted in women where free radicals have been associated with infertility.

Example: Alam, F., Khan, T. A., Amjad, S., Rehman, R. (2019). Association of oxidative stress with female infertility – a case control study. JPMA. The Journal of the Pakistan Medical Association, 69(5), 627-631. Available at: Available at: https://ecommons.aku.edu/pakistan_fhs_mc_bbs/764

The paragraph on reproductive hormones and the likely effect of Moringa Oleifera on the hypothalamic-pituitary axis is out of place. Although this is a likely route of action of Moringa, it is out of scope for your study. The researchers went out of their way to exclude women who had infertility attributed to hormonal imbalances. I suggest they focus on the antioxidant effects of Moringa as per the title.

Results

A slight description of the demographic characteristics such as age distribution, weight, BMI could add to the discussion. There are other factors that could contribute to increased markers of ROS that could also contribute to infertility.

The discussion and conclusions are within the scope of the results presented.