

Review of: "Haematological and Biochemical Patterns in the Liver Function of a Syrup Made From Vitex Doniana Fruit"

Atefeh Babaei¹

¹ Razi University

Potential competing interests: No potential competing interests to declare.

English Language:

- Check for consistent use of tense throughout (some sections switch between past and present tense)
- Improve flow and transition between sentences and paragraphs in some places

Grammar:

- Check subject-verb agreement in a few places
- Ensure proper use of articles (a, an, the) throughout

Punctuation:

- Add missing periods at the end of some sentences
- Check use of commas, especially for separating clauses

Spelling:

- No glaring spelling errors noticed

Word Choice:

- Some word choices could be improved for clarity and conciseness

Overall Style:

- Consider breaking up some long, complex sentences for better readability
- Ensure consistent capitalization style for scientific terms
- Double check formatting of in-text citations

Flow and Clarity:

- The overall flow is logical, but some sections could benefit from better transitions between ideas
- Clarify the meaning of some statements that seem vague or unclear

Title:

The title "Haematological and Biochemical Patterns in the Liver Function of a Syrup Made From Vitex Doniana Fruit" is clear and accurately represents the study's focus. However, it could be made more concise by removing "of a Syrup Made From" since the fruit name (Vitex Doniana) already implies that a syrup was prepared from it.

Abstract:

The abstract provides a concise overview of the study's background, methodology, results, and conclusion. However, certain parts could be improved:

The methodology section is quite dense and could be broken down into shorter sentences for better readability.

In the results section, consider removing the range of values and only stating the lowest and highest values observed for better clarity.

The conclusion should be more succinct and focus on the key takeaways from the study.

Introduction:

The introduction provides a good background on the importance of plant-derived compounds in healthcare and the potential of Vitex Doniana as a medicinal plant. However, the transition to the study's aims could be improved by explicitly stating the research gap or need that this study addresses.

Materials and Methods:

There is some inconsistency in referring to the experimental animals as rats or mice!!!!. This should be clarified and consistently used throughout.

The authors should consider separating the experimental mice by sex and using an equal number of males and females in each treatment group. This would allow for the analysis of potential sex-based differences in the effects of the Vitex doniana syrup. With only 5 mice per group of unspecified sex ratio, the current experimental design may not be able to detect gender-related variations in the measured parameters."

If separating by sex is not feasible, the authors should at least report the sex ratios in each group and account for them statistically in their analysis.

"Given the need to account for potential sex differences, as well as the multiple treatment doses used, the authors should consider using a two-way ANOVA or other suitable analysis that can handle both sex and dose as factors. This would provide a more robust and accurate analysis than the one-way ANOVA described."

The experimental design section could be rephrased for better clarity:

Certain steps in the methodology could be explained more clearly, such as the centrifugation step in the antioxidant determination.

Ensure consistency in abbreviating journal names and italicizing them correctly in the reference style.

Results:

The results section provides a comprehensive report of the findings, including haematological parameters, antioxidant levels, biochemical assays, and histopathology.

However, the presentation of data could be improved by using well-structured paragraphs and breaking down dense information into shorter sentences.

Discussion:

The discussion section effectively contextualizes the study's findings within the existing literature and provides plausible explanations for the observed results.

However, the section could benefit from a more structured approach, with clear sub-headings or paragraphs dedicated to discussing specific aspects of the results.

Some statements or claims could be further strengthened by citing relevant literature or providing more detailed explanations.

Conclusion:

The conclusion accurately summarizes the study's main findings and their implications.

However, it could be more concise and focused, highlighting the most significant contributions or implications of the study.

Overall, the authors should revisit their experimental design, separate the animals by sex, increase their sample sizes if needed, and perform more rigorous statistical analyses. The authors would likely need to undertake substantial revisions to make the manuscript publishable.