

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

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**Potential competing interests:** No potential competing interests to declare.

Dear Fred Coolborn Akharaiyi, Chioma Bertha Ehis-Eriakha, and Peace Omoikhudu Oleghe, I hope this message finds you well. I have thoroughly reviewed your study manuscript titled "[Haematological and Biochemical Patterns in the Liver Function of a Syrup Made From Vitex Doniana Fruit]". Overall, your research on the effects of Vitex doniana syrup on liver function in animal models is informative. However, I've identified some areas where additional clarity and depth could enhance the manuscript's overall comprehensiveness and impact. Here are specific points for your consideration:

## Introduction

1. Give specifics about earlier research on the impact of *V. doniana* on the health of the liver or its chemical makeup. A summary of pertinent literature that provides background information for the current investigation is one way to do this.
2. Give a clear explanation of the precise research issue regarding the impact of *V. doniana* syrup on animal models' liver function. The purpose of the study and the relevant variables should be briefly stated in this.

## Materials and Methods

1. Give specifics on the selection process used to create the six groups of rats. Add particular health conditions that were taken into consideration throughout the screening process, as well as age and gender.
2. Give an account of the temperature, humidity, and light cycles of the experimental animals' surroundings. To ensure that the study can be repeated in a similar setting, this is essential.
3. Give specifics about the purification process, if any, and indicate if the *V. doniana* syrup utilized was crude or refined. Indicate whether there was a single dose or whether there were several batches of the doses provided.
4. Give an explanation of why the rats were fasted before receiving the *V. doniana* syrup. Provide information about the length of the fast and any special rules observed.
5. Explain the tissue-washing procedure in detail, mentioning the amount of times it takes, the solution (saline solution, for example), and the number of washes. Give detailed instructions on how each procedure should be fixed, dried, and timed.
6. Provide specifics on the dosage administration technique (such as oral gavage, injecting, mixing with feed, or water) so that the process is understood.

## Results and Discussion

1. Any statistically significant outcomes acquired throughout the investigation should be clearly indicated. Where applicable, exact p-values or confidence intervals may be mentioned.
2. Determine whether there are any differences in how *V. doniana* affects male and female mice. If there are any discrepancies, examine the implications.
3. Discuss the possible contribution of vitamins and other nutrients in *V. doniana* syrup to the observed increase in weight growth in rats and explain how it correlates with earlier findings.
4. Write about how *V. doniana* syrup affects the blood system and be sure to highlight that the results fell within the expected ranges for the parameters that were examined.
5. Discuss how the syrup's increased catalase and glutathione levels, combined with a decrease in lipid peroxidation, point to its potential as an effective antioxidant and liver defender.

Best regards,

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