

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.

Thank you very much for giving me the opportunity to review this manuscript. I would like to share with the dear authors the following comments:

1. We recommend changing the title of the manuscript to "Effect of Vitex doniana fruit syrup supplementation on some hematological parameters and liver functions: an In vivo study."
2. The abstract is not entirely clear; please rewrite it, explaining the methods used in this study and showing the results clearly and accurately.
3. How many groups were studied? 6 or 7?
4. Please specify precisely the concentration of the dose given. Is it ml/kg or mg/kg?
5. It is essential to mention the details of the fruit syrup extraction method used in this study.
6. It is necessary to clearly and accurately highlight the original objective of this study (which is to investigate the undesirable health effects of Vitex doniana syrup) for the general readers. From my reading of the way this manuscript was written, I found that the main purpose of this study was not clear. Please pay attention to that.
7. Please pay attention to the way the results are displayed, as they appear to be quite random and vague.

Ex: Weight gain of change values from 8.12-9.81 g was recorded. Increase in red blood cells (7.32–7.45 m/cu.mm), white blood cells (4.30–4.35 t/cu.mm), lymphocytes (55.21-54.72%), neutrophils (21.64–12.70%), and PCV (41.04–41.16%) were recorded. Values of catalase were 50.20-58.21 $\mu\text{M/g}$, glutathione (23.41-28.34 $\mu\text{M/g}$), and lipid peroxidation (93.54-106.21 $\mu\text{M/g}$) compared to the negative control that had values between 48.37-58.27 $\mu\text{M/g}$). A decrease in unit value was recorded in the biomarker enzymes of alkaline phosphatase that ranged from 91.17 to 85.24 IU/L, aspartate aminotransferase from 58.67 to 31.56 IU/L, and alanine aminotransferase from 58.16 to 43.36 IU/L. Decreased values in total bilirubin, creatinine, cholesterol, and urea were observed compared with the negative control value. However, an increase in the unit was observed in the total albumin that ranged from 3.16 to 3.38 mg/dL, total protein from 6.42 to 6.74 mg/dL, and uric acid from 7.06 to 5.10 mg/dL) along with the syrup concentrations compared with the negative control of 3.75 mg/dL, 7.12 mg/dL, and 5.21 mg/dL, respectively.

1. Please pay attention to the linguistic aspect; many phrases need linguistic and scientific rephrasing.

Examples:

- 1-The study concludes that the syrup has no health implications as it has the potential for blood maintenance, good

antioxidant quality, and quality enzyme markers for healthy liver function.

2-It has been previously known that vegetables could be of more importance in the supply of human health with minerals and vitamins. Recent research has shown that vegetables also provide numerous heterogeneous plant chemicals active in human health.

3-Swiss albino mice (*Mus musculus*) with a total number of 35 were selected for the study, were acclimatized for two weeks, and during that time were allowed to normal rat feed and water.

Best regards