

Review Form 3

Journal Name:	Journal of Pharmaceutical Research International
Manuscript Number:	Ms_JPRI_124456
Title of the Manuscript:	HEPATOPROTECTIVE INVESTIGATION OF FICUS LYRATA AND FICUS ELASTIC LEAVES EXTRACT
Type of the Article	

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>I like this manuscript due to the following reasons;</p> <ul style="list-style-type: none"> i. Liver disease is among the leading non-communicable diseases that cause many deaths each year. Finding a means of protecting the liver against liver disease or injury is therefore very important. ii. Paracetamol-induced liver injury is the most common type of drug-induced acute liver injury due to paracetamol being an over-the counter drug. As a result, many people abuse paracetamol. Therefore, carrying out a study to protect against paracetamol-induced liver injury or failure is important. iii. Isoniazid accounts for 5-22% of acute liver injury. Therefore, carrying out a study to protect against isoniazid-induced liver injury or failure is important. iv. Medicinal plants such as <i>Ficus lyrata</i> and <i>Ficus elastica</i> leaves are known to have minimal toxic effects, unlike synthetic drugs. This makes them safe as a hepatoprotective agent. 	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>No, it is not suitable. The title should be changed to “Assessment of the Hepatoprotective Effect of <i>Ficus lyrata</i> and <i>Ficus elastica</i> leaves extracts against isoniazid and paracetamol-induced liver injury in rats.</p>	
<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>No, the abstract is not comprehensive.</p> <p>The abstract should have a brief introduction on liver disease, with focus on isoniazid and paracetamol-induced liver injury, clearly stating the objective or aim of the study.</p> <p>This should be followed by a part briefly describing the materials and methods, indicating the number of animals per group, the doses of the isoniazid and paracetamol used for induction of liver injury, the various doses of both <i>Ficus lyrata</i> and <i>Ficus elastica</i> leaves assessed in this study. It should also state the number of days the study was carried out as well the biochemical parameters assessed in this study.</p> <p>This should be followed by key results, stating the p-value of significance for each result.</p> <p>The concluding part of the abstract should answer the objective or aim of the study, stating the dose that showed the highest hepatoprotective effect for both <i>Ficus lyrata</i> and <i>Ficus elastica</i> leaves extracts.</p> <p>The following words should be added to the keywords; isoniazid, paracetamol.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>No, subsections and structure of the manuscript are not appropriate.</p> <p>There are no in-text references There is no section for Authors' Contribution. There is no section for Ethical Approval. There is no section declaring Conflicts of Interest. There is no section for Funding. Even if the authors received no funding for this study, it should be clearly stated under this section.</p> <p>The introduction of the manuscript is poorly written, the whole introduction should be re-written (afresh). The introduction should begin by a brief description of the liver, stating its main functions and factors that hinder its functions. For example, isoniazid and paracetamol. This should followed by a brief introduction on liver disease-focusing on drug-induced liver injury or disease, clearly stating it as a problem in the world, the authors' continent and country, backing</p>	

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	<p>it with data,. This is when isoniazid and paracetamol come in. This should then be followed by a brief description of isoniazid and paracetamol and how they cause liver injury.</p> <p>This part should be followed by a brief introduction on medicinal plants in general. The authors should then narrow it to <i>Ficus lyrata</i> and <i>Ficus elastica</i>. These plants should be described, stating some pharmacological activities of these plants as well as components responsible for these pharmacological activities. This will serve as a justification for this study.</p> <p>The introduction should have appropriate in-text references.</p> <p>The materials and methods section lacks crucial subsections. This section should be re-written or divided into the following subsections:</p> <ul style="list-style-type: none"> i. Chemicals – Chemicals used ii. Plant Collection and Extraction-The authors should describe into details how the extracts were prepared. They should clearly state the source of the raw plant materials, how the plant materials were authenticated, the various weights of the plant materials measured, the volume of the solvent used for the extraction, the type of extraction and extraction procedures, how the various doses of the extracts were prepared. iii. Animals-The authors can consider suggested references for guidance iv. Treatments- The authors can consider suggested references for guidance v. Blood Collection and Assessment of Hepatoprotective Activity- The authors can consider suggested references for guidance vi. Statistical Analysis- The authors can consider suggested references for guidance <p>The results should be separated from the discussion.</p> <p>The groups in the tables should be clearly stated. For example, <i>Ficus lyrata</i> leaves should be changed to <i>Ficus lyrata</i> leaves+isoniazid. This should be done for all extracts treatment groups in all the tables presented in the results. The authors should leave comments under each table presented in the results.</p> <p>Instead of quoting the values of SGOT, SGPT, Serum Bilirubin and ALP in percentage, it is advisable to state the actual values in U/L.</p> <p>The authors should also include the effects of extracts on haematological parameters, if available.</p> <p>The discussion should be re-written to explain key results. Appropriate references should be added.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<ul style="list-style-type: none"> i. SGOT, SGPT, Serum Bilirubin and ALP are good reflectors of liver status. ii. The levels of liver enzymes can be measured using the serum iii. Medicinal plants contain bioactive components, including antioxidant properties which give them hepatoprotective potential or activities. 	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>No, references are not sufficient. I suggest the following references;</p> <ul style="list-style-type: none"> i. Sedeafor R, Larbie C, Emikpe BO, Sarfo-Antwi F, Donkor S, et al. (2024). Safety and Hepatoprotective Assessments of Polyherbal Formulation in Lead and Acetaminophen-Induced Hepatotoxicity in Rats. <i>J Altern Complement Integr Med</i> 10: 438. 	

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	<p>ii. Kusi S., Larbie C, Sarfo-Antwi F (2023). Hepatoprotective Effects of Tetrapleura tetraptera (Schum& Thom) Taub. Stem Bark Extracts in Drug-Induced Toxicities in Rats. Curr Res Compl Alt Med 7:201. DOI: 10.29011/2577-2201.100210</p> <p>iii. Genfi AKA, Larbie C, Emikpe BO, Oyagbemi AA, Firempong CK, Adjei CO. Modulation of Oxidative Stress and Inflammatory Cytokines as Therapeutic Mechanisms of Ocimum americanum L Extract in Carbon Tetrachloride and Acetaminophen-Induced Toxicity in Rats. Journal of Evidence-Based Integrative Medicine. 2020; 25. Doi: 10.1177/2515690X20938002</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>No, the language/English quality of the article is not suitable. The whole article should be proofread to correct grammatical errors. The authors should also consider restructuring sentence structure.</p> <p>The following corrections should also be effected;</p> <ol style="list-style-type: none"> i. Swiss albino rats weighing between 150 and 200 g of were employed in the current study. Of should be deleted. ii. Before the trial started, the animals were given two weeks to acclimate. Acclimate should be replaced with acclimatize. iii. The Institution Animal Ethical Committee formally accepted the protocol for animal experimentation. The Institution of. Of is omitted. iv. Swiss albino rats. It should be Albino, not albino. v. Five groups, each with six creatures. Creatures should be replaced with animals. This change should be effected in the whole article vi. Group II was received Isoniazid solutions at.. Was should be deleted. vii. Group-III and Group -IV were received 100 mg/kg and 200 mg/kg of.... Were should be deleted viii. Ficus lyrata should be italized ix. Ficus elastic should be replaced with <i>Ficus elastica</i> throughout the whole study. x. The animal was anesthetized with ether after 21 days in order to draw blood from the retroorbital plexus. Incomplete sentence. xi. The animal was anesthetized with ether after 21 days in order to draw blood from the retroorbital plexus, and it was subsequently slaughtered while still under ether anesthesia in order to remove the liver. The animal was should be replaced with the animals were. It was should be replaced with they were. This change should be effected in the whole article. xii. Numerous biochemical analyses were conducted. The biochemical parameters analysed should be clearly listed. xiii. 2.2 Experimental designs for Ficus lyrata leaves Extract Isoniazid induced hepatoprotective. This should be changed to Experimental designs for Ficus lyrata leaves Extract in the hepatoprotective study. Same should be done for all similar subsections. 	
<p>Optional/General comments</p>		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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Reviewer Details:

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Department, University & Country	Kwame Nkrumah University of Science and Technology, Ghana