



SDI Review Form 1.6

Journal Name:	<u>Journal of Advances in Medical and Pharmaceutical Sciences</u>
Manuscript Number:	Ms_JAMPS_23186
Title of the Manuscript:	In Vivo Studies On the Possible Hypolipidemic Alterations in Rats Adminstered Hibiscus Sabdariffa Aqueous Extract
Type of the Article	Original research Articles

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	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)
Compulsory REVISION comments	The current manuscript entitled 'In Vivo Studies On the Possible Hypolipidemic Alterations in Rats Administered Hibiscus Sabdariffa Aqueous Extract' deals with the effect of H.Sabdariffa extract on the lipid profile of normal rats. Though the objectives are considerable to some extent, the manuscript suffers with the following serious issues. Title: It's very disappointing to see spelling mistake in the title itself. The word 'administered' should be 'administered'. After 'administered' and before the 'Hibiscus..', plz include 'with'. Abstract: 1) Please change the 'lipid concentrations' to the 'lipid levels'. 2) what do you mean 'rats administered....using rat model'? 3) In what context 'the alterations of lipid profiles' in healthy normal rats is beneficial? I feel that the results were concluded in a exaggerate fashion. Introduction: 1) The introduction about the plant and the reason behind this study are not fulfilled. For instance, The different parts of this plant were reported for various biological activities. However, the authors focused on calyx literature to start with. 2) Is there any reports or instances where healthy people	Responses: Title: Please this titled has been addressed in the earlier version. This is not the title of the revised version. That typographical error was taken care of. Abstract: 1. Done 2. Rat model has been deleted 3. We simply wanted to know if this drink affects lipids in any way in normal subjects. There are some conditions associated with lipid such as arteriosclerosis, obesity, diabetes, arthritis and so many of them Introduction: 1. The calyx is used for making the "Zobo" drink which we evaluated. 2. Everybody (both healthy and unheathy) takes the drink, but we chose to evaluate the effect on the healthy individuals. 3. As explained earlier, this is the part used in making this popular drink. It was stated in the introduction that the calyces are used in making the drink



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	consume the juices or only during therapy? 3) Generally, the doubt arises why only calyx ? why not other parts of this plant for the study ? So, the introduction and the motivation behind the study should be written clearly. Materials & Methods: The materials and methods section should be written to an extent where other scientist can reproduce the same. However, the details furnished in the manuscript were not convinced and raises many questions about the study. 1) In the plant material section, how come the 'leaves' came into the story when the abstract and the introduction sections discussed 'Calyx' effects? 2) Is there voucher number for this plant part submitted in the herbarium? 3) Please insert the ethical permission and study approval details in the 'Animal' section itself. The details were missing in the manuscript other than a statement saying that the study was conducted by following some ethical guidelines. 4) In 'Experimental design' section, The number of days the extract was administered is missing. The route of administration also missing in this section. 5) The basis or criteria for selection/inclusion of experimental rats in the study was missing. As the study majorly focuses on the alterations of lipid	Materials and methods 1. Well it was used interchangeably. However, we have changed the "leaves" for "calyces" 2. The herbarium number has been inserted 3. Done 4. This has been included under the experimental design section 5. The rats were purposefully selected and acclimatized under the same conditions. The arrangement in the group is such a way that the mean weights of all the rats in the groups were statistically comparable so as not confound the results significantly. Though our interest is not on the weight parameter. 6. Cold maceration is a popular and
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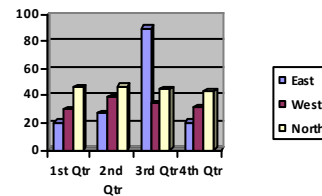
	profile in healthy rats, automatically the question raises that based on which parameter the authors have chosen the experimental rats? Based on naked eye examinations, its very difficult to conclude the pathological state of animal. 6) What is the procedure followed to make the extract? A) Cold maceration procedures (plural) mean many numbers of methods. B) What is the incubation/soaking time with the solvent? C) What is the name of solvent used to extract? 'Aqueous solvent' means which solvent? D) What is the grade or size whatman paper used to filtration? E) How much is the amount (weight) of starting material used to prepare the extract & the yield of final extract obtained? 7) What's the procedure to collect the blood samples and route followed? & which amount of blood was collected for all the analysis done with? 8) No, preliminary phytochemical analysis was performed on the extract obtained? So, it's difficult to discuss the findings based on the earlier studies that were used different extraction procedures and solvents. Results:	general well known method of extraction. A) No. The "s" has been removed B) 48 h. C) "Aqueous" means "water". This is well known D) No 1 E) About 1 kg. The extract was concentrated and reconstituted upon administration. The initial yield was not calculated. However, on administration, we would determine the concentration and calculate the dose to be given according to the weight of the rats 7. This was through the orbital plexus. It has been addressed in the text. 8. The phytochemical results of the "other studies" were products of the same aqueous solvent. Aqueous extraction is the method of extraction as far as the Zobo drink is concerned. So we took cognizance of that Results 1. This is to give pep and to ensure
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1) First, what is the need of five figures and that to some are bar and some are line graphs? Is it just to increase the number of figures?

It's a very simple data to represent in grouped bar diagram to put all in one figure, so that the comparison would have made easy for readers.



2) The graph itself should represent the significance. Please indicate the significantly different values with '*' in the graph.

3) Finally, I have a doubt on the methodology adopted for the study. If the authors are comparing the variations/changes in the lipid profiles with out and with treatment of extracts (for 21 days), then what are the variations in the lipid levels on day '0' or '1'? This day '1' estimation of lipid profiles will only be the control to compare with the extract effect. So, I think the present form of results are difficult to convince the readers whether the slight variations (though significant) are due to treatment with extract or the animals taken were taken on day '1' itself have the differences.

Discussion:

The discussion is not proper and not enough literature was discussed to support the findings. If not possible, the discussion should be merged with the Results section to

that there was no monotony. Representing the entire data in group bar will bring about clumsyness and ambiguity.

2. The error bars were inserted and clearly show which is significant and which is not.

3. There is a normal control group. This implies that any changes observed at the end of the study should be compared with the normal to obtain the variation from day 0. The essence of the normal control is to take care of day 0 and other days as may be compared by the researchers.

4. Some designs however adopt your opinion. Your opinion is not bad at all. Thank you.

Discussion

The journal format does not merge results and discussion. However, explanations to the figures were separated from the figures themselves

*** the diet (Vital feed daily *ad lib*)



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	write in effective way. *** Also the kind and nature diet followed during the study period was not mentioned. ** The time at which the extract was administered during a day was not described. ** To monitor the changes in the lipid levels, the estimations should have done at day '0'/'1', '7', '14' '21'. As the sacrifice of animals was not there, this real-time observations should have given more insights on the effect of extract on lipid levels. So overall analysis of results with this improperly designed study left many unanswered questions and the significance of the study.	mentioned under materials and methods was followed ** in the morning hours **Agreed. That is another good approach to this type of design even though it might not be cost effective To the best of our effort we have tried to contribute to the body of existing knowdege in this area
Minor REVISION comments		
Optional/General comments		