



SDI Review Form 1.6

Journal Name:	Asian Journal of Research in Medical and Pharmaceutical Sciences
Manuscript Number:	Ms_AJRIMPS_47203
Title of the Manuscript:	The Role of Serum Alpha-amylase and Glycogen synthase in the Anti-diabetic Potential of Terminalia catappa leaf extract in Diabetic Wistar Rats.
Type of the Article	Original Research Paper

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	<p>The authors in their manuscript “The Role of Serum Alpha-amylase and Glycogen synthase in the Anti-diabetic Potential of Terminalia catappa leaf extract in Diabetic Wistar Rats” identify that the aqueous leaf extract of <i>Terminalia catappa</i> reduces serum alpha amylase in alloxan-induced diabetic rats. They further demonstrate that the anti-diabetic activity to be attributed to the ability of the extract to regulate postprandial blood glucose by reducing alpha amylase level. This activity is again presumed to be mediated through phenolic content of the extract owing to the previous results that show phenolic compounds to inhibit alpha amylase. However, the experiments to demonstrate these findings are weak.</p> <p>The authors need to administer phenolic rich fraction in order to confirm their speculation. Additionally they need more in vitro experimental data to identify a direct effect of the extract. The authors need to provide the TLC finger print to exactly know the pattern of chemical constituents within their extract. Though the focus of the manuscript is not on blood glucose but rather on the alpha-amylase and glycogen synthase, without the effect on blood glucose it is very difficult to relate if the observed effect can actually result into a beneficial effect on alloxan diabetic rats. So the blood glucose data is required for an easy interpretation of the benefits of the extract.</p> <p>The manuscript is not well written. There are so many typographical errors and grammatical mistakes. The authors have not discussed their results appropriately.</p>	<p>The Authors appreciate the reviewer's comments and have effected necessary changes on the manuscript.</p> <p>The comment on provision of TLC and administration of phenolic rich fraction cannot be provided here as that was not the focus of this paper. The process for identification of phytochemical constituents is on the way. The speculation regarding phenolic compound is withdrawn and experiment to address it will be considered.</p> <p>The blood glucose result is added as requested</p> <p>Typographical errors are corrected</p> <p>The discussion has been re-done .</p>
Minor REVISION comments		
Optional/General comments		

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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	