



**SDI Review Form 1.6**

Journal Name:	<a href="#">Journal of Complementary and Alternative Medical Research</a>
Manuscript Number:	Ms_JOCAMR_47917
Title of the Manuscript:	Evaluation of in vivo Synergistic Hypoglycemic & Hypolipidemic Activity of Ethanolic Extract of Calotropis gigantean Leaves in Combination to Metformin in Alloxan Induced Rats
Type of the Article	

**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>)

**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)
<b>Compulsory</b> REVISION comments	<p>The authors in their manuscript identify the synergistic effect of Calotropis gigantean Leaves and metformin on alloxan-induced diabetes in rats. There are some major deficiencies that needs to be addressed before consideration for publication:</p> <ol style="list-style-type: none"> <li>1. The effect of Metformin (50 mg/kg) alone has to be studied in order to compare the synergism with the combination of extract. Although I find that 100 mg/kg dose level has answered this to some extent, it is difficult to conclude the effect with one dose level.</li> <li>2. Figure 01 – Effect of C. gigantea extract and metformin on fasting blood glucose level in alloxan-induced diabetic rats --- This figure is not presented correctly. The authors need to show the progression of diabetes from day 1 to day 7 in a single line with X-axis plotted for day 1, day 3, day 5 and day 7. The progression for each treatment condition needs to be shown in different colours.</li> <li>3. The figures for mean weight of liver (table 3) and mean weight of animals (figure 3) do not depict the values for metformin group, the extract group and the combination.</li> <li>4. There is no any statistical analyses provided for blood glucose levels and the lipid profiles.</li> </ol>	<ol style="list-style-type: none"> <li>1. Effect of individual Metformin (50mg/kg) has not been performed. Individual 100 mg/kg dose &amp; combination with extract were performed to observe the dose reduction of metformin when taken with natural drug.</li> <li>2. Corrected with new graph</li> <li>3. The study only focused on the liver weight change on alloxan induced diabetic group compare to control group.</li> <li>4. Statistical analysis was done for blood glucose levels and the lipid profiles.</li> </ol>
<b>Minor</b> REVISION comments		
<b>Optional/General</b> 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)	Antidiabetic & hypoglycemic test were carried out on rat model in strict compliance with the National Research council guidelines on the care and use of laboratory animals to minimize research animal pain and suffering