



SDI Review Form 1.6

Journal Name:	Journal of Applied Life Sciences International
Manuscript Number:	Ms_JALSI_49237
Title of the Manuscript:	Effect of Flax Seed Oil on Acute Carbon Tetrachloride-Induced Hepatic Injury and Determination of Hepatic Apoptosis in Rats
Type of the Article	Original Research 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>)



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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>ABSTRACT Methodology: The third group received intraperitoneally dose of 1.0 ml/kg CCl₄ for twice in the first week and the fourth group received at a dose of 1.0 ml/kg CCl₄ intraperitoneally twice in the first week and simultaneously 4 ml/kg FSO by gavage for 4 weeks..... Group 3 & 4 what is different?</p> <p>MATERIAL AND METHODS</p> <p>2.1. Materials</p> <ol style="list-style-type: none"> 1. Chemicals suppliers and its location must be provided as accurate as possible. 2. Biochemical kits must be must be provided as accurate as possible. <p>2.2. Animals</p> <ol style="list-style-type: none"> 1. Animals food supplier as well as its location must be mentioned. 2. The gender of male adults animals used in the experiment <p>Not used female please give me explanation?</p> <p>2.2. Experimental protocol</p> <p>They were divided into 4 groups, each containing 8 animals. The first group was identified as control and 0.9% NaCl (1 ml/kg/live weight); second group was given 4 ml/kg/live weight FSO gavage for 4 weeks each day. The third group was injected with a 1:1 ratio of corn oil, 1.0 ml/kg/live weight two doses of CCl₄ was injected intraperitoneally for 3 days in the first week. In the fourth group, 4 ml / kg / live weight dose of FSO was given by gavage for 4 weeks every day, in the first week 2 doses of intraperitoneal 1 ml/kg/ live weight 1:1 ratio were applied with CCl₄ diluted with corn oil.....</p> <p>Confusing grouping and dose must be provided clear information.</p> <p>2.3. Collection and processing of samples</p> <p>The rats were anesthetized with intramuscular 80 mg/kg ketamine (alfamine, 100 mg/ml, Ata-Fen) and 12 mg/kg xylazine (alfazyne, 20 mg/ml, Ata-Fen) injection [17] 24 hours after the last CCl₄ application.</p> <p>the rats was anesthetized by ketamine and xylazine.....why?</p> <p>3. RESULTS AND DISCUSSION</p> <ol style="list-style-type: none"> 1. Without Statistical analysis how can you calculate significant signs? 2. The references are not related to the standard method. Pls. check and add the suitable references for serum ALT activities, total protein, total cholesterol, triglycerides and MDA 	<p>I am very much thankful to the reviewer for his/her review. I have revised my present research paper in the light of his/her useful suggestions and comments;</p> <p>ABSTRACT Response 1: While the third group received only 1.0 ml/kg CCl₄, the fourth group received 1.0 ml/kg CCl₄ and simultaneously 4 ml/kg flax seed oil (FSO). Thus, the effect of FSO on CCl₄ damage has been investigated, which constitutes the hypothesis of this study.</p> <p>MATERIAL AND METHODS</p> <p>2.1. Materials Response 1: Chemicals suppliers and its location provided in the manuscript Response 2: Biochemical kits information provided in the manuscript</p> <p>2.2. Animals Response 1: As mentioned in the text, the experimental procedures were performed in Erciyes University Experimental Research and Application Center and the food were provided by the Center.</p> <p>Response 2: Due to flaxseed oil's estrogenic components it has not been found suitable and therefore male rats were preferred in this study.</p> <p>2.2. Experimental protocol The text has been tried to be edited with the suggestion of the referee as follows: Response 1: The rats were divided into 4 groups, each containing 8 animals. The first group (control group) were administrated with 0.9% NaCl (1 ml/kg); second group was given 4 ml/kg FSO through gavage for 4 weeks each day. The third group was injected with CCl₄ (1 mL/kg, 1:1 mixture with corn oil) twice in the 1st week. The fourth group, were administered with CCl₄ (1 mL/kg, 1:1 mixture with corn oil) twice twice in the 1st week and simultaneously 4 mL/kg FSO through gavage for 4 weeks.</p> <p>2.3. Collection and processing of samples Response 1: Rats were anaesthetized by ketamine and xylazine to collect blood samples</p> <p>3. RESULTS AND DISCUSSION Response 1: The sentence is corrected. Response 2: A standard method could not be determined for biochemical findings because a limited number of studies were available to determine the effect of grape seed oil against liver damage caused by carbon tetrachloride</p>



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<u>Minor</u> REVISION comments	<p>1. This revised manuscript needs an in deep revision in the use of the English language.</p> <p>2. This reviewer suggests that a revised manuscript should be prepared and sending as a new manuscript.</p>	Response 1: I have revised my current research in terms of spelling mistakes.
<u>Optional/General</u> comments	In general, the manuscript needs improvement	

PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	