



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	2013_IJBcRR_6262
Title of the Manuscript:	Effects of Orlistat and herbal mixture extract on renal function and oxidative stress biomarkers in a rat model of high fat diet
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:

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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	This article has a poor English and it must be revised by a native college. There are a lot of mistakes that make difficult to understand the study: absence of commas, unnecessary auxiliary verbs, misused singular and plural (was and were), misused connectors (while, also, that...), misused capital letters (Obesity on page 15 and orlistat on page 25), etc. Many scientific mistakes: grams are g (not gm), micrometers are μm (not um, page 5), $^{\circ}\text{C}$ (not $^{\circ}\text{c}$, page 5), etc. The way of express the results is poor. Orlistat is not mentioned in Chemicals (page 4). Is Xenical or Zenical? Xenical is written only on page 4. Wistar rat weighing 100 g is adult? How many rats were enrolled in each group? It is important to discuss first paragraph of page 12.	The article would be reviewed and repaired the mentioned errors. Would be changed gm to g, um to μm and $^{\circ}\text{c}$ to $^{\circ}\text{C}$. We have been changed the way of results expression Zenical and Orlistat is the same because Orlistat is the effective materials of Zenical and it was written in materials and methods in page of 3 under line address of chemicals. I illustrated it more easily. The objective of the manuscript to be dealing with a few mice weight and weighing up to multiply in weight in the first phase of the work, a phase of induction period rats because pre-100g were suffering a lack of mental growth. We have been dealing with an average weight, which did not exceed 100 grams because the mice were not all the same weight. Animal were divided into four groups: i- Group 1 (12 rats of normal control) is given the normal diet daily for 22 weeks. ii- Group 2 (13 rats of high fat diet group) is administrated the fat enriched-diet daily for 22 week by adding 30 % fat and 5 % sunflower to the control diet. iii- Group 3 (12 rats of Orlistat group). This group is given high fat diet with dose 2 mg/kg bw /day Orlistat daily for 6 weeks. iv- Group 4 (13 rats of herbal mix group) administrat the high fat



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	Why these doses of Orlistat and herbal mixture are used? Discussion is too long (11 pages) and divided into sections. Each section has a long introduction, and their results are poor discussed. Discussion must be shortened and really focused on new results (effects of high fat diet are obvious): effects of Orlistat + herbal mix (on page 19, because page 20 has repeated sentences). The discussion seems a review, not a real discussion of results because a lot of pages have no information about their own results (pages 14, 15, 17, 18...). PUFAs are the reason of herbal mix effects? (pages 19-20 and 22) A speculation about how Xenical reveals that focal area shows congestion and some renal tubules suffer from degeneration is needed (page 24).	diet with dose 5 mg/kg bw/day pumpkin oil and 2 mg/kg bwt/day nutshell daily for 6 weeks. High fat diet group is compared with normal one and Orlistat group and herbal mix group are compared with high fat diet group. Because it was the safety dose for Orlistat and herbal mix and it was ideal dose to show its effect in treatments because lower than this lead to no effect and higher than this dose may be toxic according to the previous researches. I would review it and spot on results in discussion more than that. It is one of reasons but it isn't the only reasons and I will discuss other reasons in details in discussion. Flax/pumpkin seed is the richest natural source of plant lignans, which are platelet-activating factor (PAF) receptor antagonists. Platelet activating factor plays a key role in the mediation of inflammation, mitogenesis and alteration of glomerular permselectivity. Luteolin that found in peanut shell extract increases the level of HO-1 protein. It was suggested that one of the mechanism of the renoprotective effect of luteolin may be related to increasing HO-1 expression and elevating antioxidant in diabetic nephropathy. We observed the effect of HFD on tissue of kidney and how Orlistat dealt with these effects by increasing urinary oxalate levels many-fold, especially in rats fed high fat or oxalate-enriched diet. A rise in the ion-activity product of calcium oxalate.
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<u>Minor</u> REVISION comments	Once an abbreviation is given, it should be written throughout the text. SOD, MDA and GSH are mentioned first with their abbreviations. We know what they are, but perhaps not other reader. Page 6: "as described by (17)" is not suitable. Author's surname must be written. References do not follow reference style of this journal. In tables, the number of decimals should be equal in means and SEM.	- Abbreviation was done. - I would rewrite it. - Ok, would be done - Number of decimals would be repaired.
<u>Optional/General</u> comments	Group number of rats, table number (page 9) and references between parentheses make paper difficult to read. Figure captions should be at the end of the manuscript, not on page 12. The study protocol must be approved by Clinical Research Ethics Committee, According to Helsinki Declaration.	- Would be repaired. - Would be repaired. - Ok