



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	Full Length 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, corrects the manuscript and highlights that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	Under Abstract: - Recast the first sentence of the abstract. - Aim is different from objective, so replace objective with aim and recast thus: The aim of this work was to examine the effect of high fat diet - induced obesity on the antioxidant defense..... - Insert the between by and administration - Correct 'explore' to exploring Chemicals: Hard capsule: turquoise cap and turquoise body bearing the imprint (Roche Xenical 120) was given orally by oral gavage with a dose 2 mg /kg bw/day.? This is confusing. The authors did not state that they used 'Hard capsule' And they failed to sufficiently describe Orlistat. 50 rats into four groups. What is the sample number?	- We have been recasted the abstract again according to SDI template. - I wrote it again, Aim of work: This study was designed to assess the potency of herbal mixture extracts of pumpkin seed oil and peanuts shell against Orlistat in male albino rats administrated high fat diet. - Orlistat is a white to off-white crystalline powder. Orlistat is practically insoluble in water, freely soluble in chloroform, and soluble in methanol and ethanol. XENICAL is available for oral administration as a dark-blue or turquoise hard-gelatin capsule. Each capsule contains a pellet formulation consisting of 120 mg of the active ingredient, Orlistat, as well as the inactive ingredients microcrystalline cellulose, sodium starch glycolate, sodium lauryl sulfate, povidone, and talc [9]. Orlistat is (S)-2-formylamino-4-



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	Did not state how they measured feed intake or calculated BMI, weight loss,	methyl-pentanoic acid (S)-1-[[[(2S,3S)-3-hexyl-4-oxo-2-oxetanyl]methyl]dodecyl ester. Its empirical formula is $C_{29}H_{53}NO_5$, and its molecular weight is 495.7. It was given orally by oral gavage with a dose 2 mg /kg bw/day [10]. - 1st a normal diet group (12 rats for control negative). - 2nd High fat diet group (13 rats HFD) act as control positive. - 3rd HFD with 2 mg/kg bw /day Orlistat (12 rats for 6 weeks). - 4th HFD with 5 mg/kg bw/day pumpkins and 2 mg/kg bw/day nutshell extract (13 rats for 6 weeks). - Calculation of average food consumption per each rat was recorded daily by subtracting the amount of food remaining in each day from the measured amount of food provided at the previous day. Calculation of energy intake of consumed diet: Metabolic energy of standard rat chow and HFD were 2813 and 5130 Kcal/kg respectively. The average energy intake of consumed diet was calculated by multiplying the average consumed diet by 2.813 and 5.130 respectively according to consumed diet. BMI for rats was measured every week and calculated by dividing the body weight in g by the length (nose to base of tail) in cm². Also body weight was measured. - 1- Effect of HFD on feed intake comparable to control group: - Figure (1): Effect of control and HFD on feed
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	Effect of control , HFD, Zenical ? and herbal mix on feed intake, body weight: Figure (1): Effect of control and HFD on feed intake: Only two instead of four groups were depicted ? The author(s) may have carried out the study to 'generate' the data in the manuscript. But, they woefully failed to present the study in an acceptable style. The manuscript as written can not be redeemed by reviewing. The author(s) must first understand the study, organize their results and rewrite the whole manuscript before submitting for fresh consideration.	intake: to demonstrate the differences of the food consumption between HFD and control because the rats were classified from the first experiment into 2 groups (control which ate normal diet and HFD which ate diet rich with fats) for 16th weeks 2- Effect of HFD, Zenical and herbal mix on feed intake: - Figure (2): Effect of HFD, Zenical and herbal mix on feed intake: - then HFD groups classified into three groups (HFD only, HFD with Orlistat and HFD with herbal mix and it was observed that the differences of food consumption between them from 16th-22th weeks Taking into consideration the number of rats in each group was 12-13 rats. - I wrote it in an acceptable style according to SDI template.
Minor REVISION comments		
Optional/General comments		