

Review Form 1.6

Journal Name:	Asian Journal of Research in Biochemistry
Manuscript Number:	Ms_AJRB_94871
Title of the Manuscript:	Assessment of insulin resistance among obese people at Shendi locality, Sudan
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:

(<https://journalajrb.com/index.php/AJRB/editorial-policy>)

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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>In ABSTRACT:</p> <ul style="list-style-type: none"> - "A total of 60 obese people 20% males and 80% female were divided into 4 groups overweight (20%), obesity class1(36.6%), obesity class2(16.6%), and obesity class3(26.6%)." in this sentence, I think there are two mistakes: 1, the sum of the percentages does not add up to 100%, and 2. authors considered overweight participants as obese. The World Health Organization defines overweight if the body mass index (BMI) is over 25, and obese, if over 30, for adults. - Is the insulin levels of fasting? - In mean 1.1+.91, 7.1+10.1, r=0.490, P. value= 0.000 respectively, I should put the zero before the decimals as 1.1 + 0.91, the signal ± between mean ± standard deviation numbers, and the number 1 in the end of the p-value = 0.0001, but not use the word mean before numbers. - There was no correlation between insulin resistance and FBG (mean 1.1+.91, 75.7+10.9, r=0.52, P. value = 0.052 respectively), I think that could be said there is a tendency, if the sample was bigger it probably will be significant. - The analysis did not show a significant positive correlation between insulin resistance and Waist-to-hip Ratio (WHR) because de p-value = 0.26. - Authors can not conclude that insulin resistance in obesity has a positive correlation with fasting insulin levels (p-value = 0.052) and waist-to-hip ratio (p-value = 0.26). - "Insulin resistance increased in males more than in females." I think authors would like to say "Insulin resistance was more prevalent in males than in females." <p>In INTRODUCTION:</p> <ul style="list-style-type: none"> - After "Insulin resistance", authors should put (IR) because it will be refers after in the text. - The CMRF acronym was not mentioned before, and others, as HOMA was not also. - I think that is beta-cells in the sentence "Homeostatic model assessment of -cell function..." <p>In Materials and Methods</p> <ul style="list-style-type: none"> - "obesity class 3, non-diabetic, non-hypertensive, or any metabolic diseases increased insulin resistance were enrolled in this study with both sexes and extraordinary ages." I am not native from English countries and I had difficulty understanding because of the lack of correct punctuation. - What temperature were the samples centrifuged at? - How old are the patients? Are they minors? <p>In RESULTS:</p> <ul style="list-style-type: none"> - I suggest that tables 2 to 6 be grouped into a single table with data from the characterization of the subjects. - The p values described in the correlations of insulin resistance and fasting blood glucose, the waist-to-hip ratio and ages are different from Table 1, as well as the r of fasting blood glucose, resulting in erroneous conclusions. - The results of the HOMA and HOMA-IR calculations were not shown. 																															
Minor REVISION comments	<p>In KEYWORDS</p> <ul style="list-style-type: none"> - I suggest removing <i>cardiometabolic risk factors</i>. <p>In RESULTS:</p> <ul style="list-style-type: none"> - Suggestion of Table 1. <p>Table 1. Title</p> <table border="1"> <thead> <tr> <th>Groups / Variables</th> <th>Age (mean±SD)</th> <th>FBG (mean±SD)</th> <th>Insulin (mean±SD)</th> <th>etc</th> <th>p-value</th> </tr> </thead> <tbody> <tr> <td>Overweight</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Obese 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Obese 2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Obese 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <ul style="list-style-type: none"> - I think the formatting and English could be improved. 	Groups / Variables	Age (mean±SD)	FBG (mean±SD)	Insulin (mean±SD)	etc	p-value	Overweight						Obese 1						Obese 2						Obese 3						
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Optional/General comments	<ul style="list-style-type: none"> - I suggest that you consider, in addition to the Declaration of Helsinki, adopted in 1964, also its versions of 1975, 1983, 1989, 1996 and 2000; the International Covenant on Economic, Social and Cultural Rights, 1966; the 1966 International Covenant on Civil and Political Rights; the 1997 Universal Declaration on the Human Genome and Human Rights; the 2003 International Declaration on Human Genetic Data; and the Universal Declaration on Bioethics and Human Rights, from 2004. I don't know if the country where the research was carried out only considers the Declaration of Helsinki from 1964. 																															

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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>	

Reviewer Details:

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