Author’s response to reviews

Title: Correlation Between physical activity, eating behavior and Obesity among Sudanese Medical Students Sudan

Authors:

Marwa Yousif (Marwa2011mhm@gmail.com)
Lamis Kaddam (lamiskaddam@hotmail.com)
Humeda Humeda (Humeda2004@hotmail.com)

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Author’s response to reviews:

In addition to the reviewers’ comments below, please address the following Editorial concerns:

1. Declarations

Please add the "Declarations" header so that it appears between your list of abbreviations and your ethics approval and consent to participate header.

At has been added based on editor comments

2. Figures

We noticed that you have submitted a table as a figure instead. Please remove the figure file and add the table to the end of your manuscript instead.

The file will be removed
Reviewer reports:

Apichai Wattanapisit (Reviewer 1): The revised version is better than the previous one. The structures and details of each section are more informative. However, there is a need to improve the consistency of writing:

- Using capital letters (e.g., obesity in the Abstract, male in Table 1, moderate in Table 5)
Corrected
- Decimal numbers (e.g., Table 1: row 1 and 2 - different from other rows)
Corrected

Table 3 and 4 were revised and corrected

Specific comments:

Background:

- Page 5, Line 3-4: 'In addition, no previous studies were conducted to assess the physical activity and eating behavior using IPAQ & TFEQ-R18.'
What is the importance of the sentence? Why IPAQ and TFEQ-R18 are important?
The paragraph had been revised and corrected

- What is different between paragraph 5 (page 5, line 8-23) and paragraph 6 (page 5, line 26-34)?
Please rephrase or combine these two paragraphs.
The two paragraphs were revised and combined

Results:

- Page 8, Line 32: 'Majority' = 44.9%
Is it appropriate to use this word since it was less than half?
Less than half was added instead of majority
- Please insert one more subheading about eating behaviors.

The subheading was added

- Table 3 and 4:

Table 3 shows 14 obese students (or 62 students included overweight) VS Table 4 shows 64 obese students

The students were divided again into overweight and obese and non-overweight or obese to enable cross-tabulation and avoid few number in every cell which make the Chi-Square test invalid. This was corrected in the tables 3 and 4

- Table 5: What is the definition of low, moderate, and high physical activity?

Please define this. Perhaps, it can be in the Methodology.

More details were added regarding IPAQ in methodology part

Discussion:

- Paragraph 2 (Page 9, Line 43-51): 'These discrepancies in results may be attributed to the differences in methods used to assess physical activity level and obesity. In investigation of such relationships, it is crucial to assess physical activity and obesity with the appropriate temporal sequence(18).'

The sentences are not clear and not relevant to the previous sentences in this paragraph. Please reorganise the paragraph.

The studies showed different results regarding the relationship between obesity and physical activity, so we tried to explain there differences

The sentence had been revised and corrected.

- Paragraph 3 is not clear. The authors mentioned about the insignificant correlation between gender and obesity. However, the authors discussed about physical activity levels among males and females, which were not mentioned in this study.

Please mention about the relevant data according to the findings of this study.

The comparison between males and females in physical activity level was added to the results
- Page 10, Line 41-43: 'This insignificant relationship had been documented by previous studies (25).'</p>

The authors mentioned about previous studies (but this sentence refers to only one study).

Second reference was added

Neha Rathi (Reviewer 2): The authors have addressed many of my concerns. Just a few more clarification points are needed before it is considered for publication:

Overall, the manuscript requires English Language Editing Services.

Some of the typos/grammatical errors are highlighted below:

1. Line 172 - It should be 'students'
   Corrected

2. Line 155 - It should be 'students'
   Corrected

3. Line 189 - 'is' missing from 'This in agreement'
   Corrected

Line 59 - Few examples of developing countries warranted

Few examples were added

Lines 100-102 - Reference needed

We added the reference

Lines 169-170 - Rephrase as follows - However, this prevalence in the present context……

Rephrased

Line 176 - Few examples of neighbouring developing countries needed

Examples from Saudi Arabia and Kuwait were added

Lines 182-183 - The Delhi-based study needs reference

The reference was added
Line 193 - Reference needed for preventive and therapeutic effects on health
Reference was added

Lines 220-221 - Is there only one limitation? What about strengths?
We added the limitations and study strength

Our gratitude and appreciation to the editors and reviewers; for their valuable comments and critics. And for the time and concern they dedicated to improve the article.

Lamis Kaddam
Corresponding author