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OPEN PEER REVIEW

Serum Omentin-1 Levels in Obese Adolescents with Vitamin D Deficiency: A Prospective Cross-sectional Study

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

1 comment · 26 Jun 2023

Motahareh Hasani Reviewer

MINOR REVISION 26 Jun 2023

Dear Editor
Hi
An article entitled “Evaluation of serum omentin-1 concentrations in obese adolescents with vitamin D deficiency” was reviewed.
The manuscript is well written. There are some minor revisions mentioned below:
Title
- It is suggested that the study design be mentioned in the title.
Abstract
- The abstract is a bit vague. The relationship between omentin-1 and vitamin D is not clear. In the methods, there is no mention of the selection of the case and control groups, and suddenly the control group is mentioned in the results!
- It is recommended that significant values be mentioned for all cases in the results section.
Introduction
- In stating the problem, discuss the importance of doing your work a little more clearly, considering that many studies have been done on this topic.
- The references used in the introduction and discussion should be updated.
- It is better to explain whether other studies in this field have been performed in humans and, if so, whether in adults or children.
If not, it should at least be mentioned, as a comparative advantage, that this is the first study in this field.

Materials and Methods
- The method of determining the sample size is not described in the text. It is suggested that this be mentioned.
- A reference should be provided for the cutoff level of vitamin D, which is considered to be 20.
- The statistical methods for analysis are well chosen.
Results
- The results are well reported.
Discussion
- It is recommended that the reasons for the results that are not significant be explained in some detail in the discussion. Simply mentioning parallel studies does not strengthen the discussion.
- The applications or benefits of the results of this study in clinical practice should be noted.
References
- The references were properly written.

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Reply to reviewer,

Dear reviewer, thank you for your suggestions and warnings. Corrections have been made according to your suggestions.

Corrections are marked in yellow in the text

Reviewer 1:

Title
- It is suggested to mention the type of study design in the title

Reply: The type of study design is indicated in the title.

Serum omentin-1 levels in obese adolescents with vitamin D deficiency:A prospective cross sectional study

Abstract

- The abstract is a bit vague. The relationship between omentin 1 and vitamin D is not clear. In the method, there is no word about the selection of the case and control group, and suddenly the control group is mentioned in the results!!

Reply: The abstract has been corrected to be more descriptive. The study and control groups are described in detail

- It is recommended to mention significant values for all cases in the results section:

Reply: significant data has been added to the results section
Introduction
- In stating the problem, discuss the importance of doing your work a little more clearly considering that a lot of studies have been done on this

Reply: The background of the study is expressed more clearly and explicitly
- The references used in the introduction and discussion should be updated

Reply: the references in the introduction and discussion section have been updated

- It is better to explain whether other studies in this field have been performed in humans, whether adults or children
If not, at least it should be mentioned as a comparative advantage, which is the first study in

this field

Reply:Other studies in adults and children in this field were mentioned.

Materials and Methods
- The method of determining the sample size is not seen in the text. It is suggested that this case be mentioned

Reply: sample size is specified in the material and method section

- A reference should be mentioned for the cut-off level of vitamin D, which is considered to be 20

Reply: Reference material reporting cut off values for vitamin D has been added to the method section
- The selection of statistical methods for analysis is well done
Results
- The results are well reported
Discussion
- It is recommended that the reasons for the results that are not meaningful be explained in some detail in the discussion. Simply mentioning parallel studies does not strengthen the discussion

Reply:The Discussion section has been revised, the references have been updated and the results that were not significant have also been updated.

- It should be noted what performance or benefits the results of this study have in the clinical practice

Reply:

Conclusions from this study;

Serum omentin-1 can be employed as a biomarker in obese adolescents with Vit D deficiency.

This sentence added to conclusion section

References
- Proper Writing of the References was observed

Reviewer 2:

1- The title or/and abstract do not indicate the design of the study.

Reply 1:The title and/or abstract is revised and the description of the study is stated.

2- The term 'adolescent' is mentioned throughout all parts of the study and also the abstract, while in lines 12, and 78 are mentioned, children."

Reply 2:In all parts of the study, the study population was corrected as adolescents.

3- The background fails to explain the relationship between vitamin D and Omentin-1 or the scientific background, or justification of research.

Reply 3:The background has been rewritten with updated references and the relationship between vitamin D and Omentin-1 has been more clearly explained

4- Most of the background and discussion sections do not mention the references, such as in lines 49, 50, 51, 53, 58, 63, 65, 66, 149, 165, 167,168, 181,184, 191,197, and 199.

Reply 4: Background and discussion sections have been rewritten and references have been updated

5- Key elements of study design are not explained in the method section.

Reply 5:The key elements of the study design are detailed in the methodology section

6- No information is provided about the sampling method, the sample size determination, or the year that the study was conducted.

Reply 6:sample size or the year of the study is added to the method section

7- The first paragraph of the discussion does not describe the main and key findings. Unrelated content has been mentioned in the discussion part that is not related to the main discus For example, in sentences of lines 175-177, 183, and 193-195.

Reply 7:The first paragraph of the discussion describes the key findings. The discussion section has been revised

8- Study findings have not been discussed in detail with previous studies that had consistent and inconsistent results, as well as possible mechanisms

Reply 8:. The discussion was revised and significant and non-significant findings were discussed in detail.

9- The conclusion of the discussion was not brief.

Reply 9:The result of the discussion is shorter and more articulated

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> Associate Editor's Comments:

Associate Editor 1:
Dear Author
Thank you for presenting this manuscript, however some comments about this presentation must be address.

Suggested corrections to the article have been made

> EIC Decision:

Thank you for submitting your manuscript to Iran J Pediatr. Two reviewers and an Associate Editor have now reviewed your manuscript. I now have the Referees' reports, which suggest that your manuscript might be suitable for publication following some revisions. I have attached some reviewer comments and invite you to submit a revised version of your manuscript addressing the points made.

Thank you for your support and interest. Revisions have been made in line with the reviewers' suggestions.

Corrections are marked in yellow in the text

2 Revision 1

1 comment · 26 Aug 2023

Motahareh Hasani Reviewer

ACCEPT 26 Aug 2023

The corrections made are acceptable.