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OPEN PEER REVIEW

Are Vitamin D Levels Linked to Primary Monosymptomatic Nocturnal Enuresis in Children? Six Years of Experience about a Controversy in Medicine: A Case-control 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.

More about open peer review: brieflands.com/knowledgebase/opr

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1 Original submission

2 comments · 1 Jan 2023 – 21 Jan 2023

Belde Kasap Demir Reviewer

MINOR REVISION 1 Jan 2023

The study examined the vitamin D levels of children with enuresis and indicated that they have lower vitamin D levels and that, as vitamin D levels decrease, the frequency of bedwetting increases. It is a well-written manuscript, and a few points need to be corrected as follows:
Page 2, Line 63: One thousand, not thousands
Page 3, Line 99: basic characteristics of subjects such “as” age ....
Page 4, Line 139: “in other words” is better.

Leila Barati Reviewer

MINOR REVISION 21 Jan 2023

The article is within the scope of the journal.
The title reflects the content appropriately.
The abstract is structured, and the keywords are selected from MESH.
The introduction includes aims.
Materials and Methods describe the selection of participants.
The sample size was sufficient.
The tables are appropriate, but there is one question: “What was the basis of information about income? If it is not reliable, it is suggested to be excluded from the study.”
The results and findings are important.
The analysis supports the conclusion.
In this study, the authors have aimed to examine the effect of vitamin D on primary nocturnal enuresis. In the discussion, details of the mechanism of this vitamin are insufficient.

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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.

Dear editor,

Thank you very much for your letter and advice. Those comments are all valuable and very helpful for revising and improving our paper. We have studied comments carefully and have made correction which we hope meet with approval. Changes in the revised document were made by using colored text in MS Word (response to reviewer by “red color”). We hope the revision is acceptable, and I look forward to hearing from you soon. We would like to express our sincere thanks to the editor and reviewers for the constructive and positive comments, and we have revised the paper point-by-point as follows:
Yours sincerely

Reviewer 1:
The study was about the vitamin D levels of children with enuresis, which indicated that they have lower vitamin D levels, and as the levels of vitamin D decrease, the frequency of betwetting increase. It is a well-written manuscript and few points would be corrected as follows:

Thank you for your supportive comments.
Q1. Page 2, Line 63: One thousand, not thousands
R1. Thank you. It was changed to “One thousand”.

Q2. Page 3, Line 99: basic characteristics of subjects such “as” age ....
R2. Thank you for your attention. “such” changed to “such as”.

Q3. Page 4, Line 139: “in other words” is better.
R3. Thank you very much. It was corrected. “In other word” changed to “In other words”. Thank you very much for your letter and advice.

Reviewer 2:
Q1. The article is within the scope of the journal.
The title reflects the content appropriately.
The abstract is structured and keywords selected from MESH.
The introduction includes Aims.
Materials and Methods describe the selection of participants.
The sample size was sufficient.
The results and findings are important.
Analysis is supports conclusion.
R2. We all welcome your words of encouragement. Thank you for appreciating our work.

Q2. The tables are appropriate; but there is one question about “What was the basis of information about income? If it is not reliable, it is suggested to be excluded from the study.”
R2. Thank you for your suggestion. We agree with you. It was deleted from table 2.
In terms of economic level, according to the last report of central bank of Iran (https://www.cbi.ir and https://www.amar.org.ir) low income (the 1-3th deciles) was monthly income less than 50 million Rials, Middle economic status (the 4-7th deciles) about 50-10 million Rials and high income more than 100 million Rials. However, with currency fluctuations

in recent years, this division may not be effective today and need to be changed. The central bank of Iran has not expressed a new report yet. So we removed it from study.

Q3. In this study, the authors have aimed the effect of vitamin D on primary nocturnal enuresis. In discussion, detail of mechanism of this vitamin is insufficient.
R3. Thank you for your comment. We added a paragraph about mechanisms of vitamin D at discussion section and four valuable references was cited in bibliography section.
“Several mechanisms have been expressed regarding the effect of vitamin D on bladder function. Vitamin D receptors are found in skeletal and smooth muscle cells throughout the body. Vitamin D receptors are present in both the detrusor muscle and the urothelium of bladder (26). Vitamin D reduces bladder contractions by suppressing bladder sensory signals during bladder filling phase. The vitamin D deficiency can increase uninhibited bladder contraction (27). Furthermore, cathelicidins play an important role in the bladder mucosal immunity. Vitamin D facilitates the production of cathelicidin. Low level of the vitamin D can increase the risk of recurrent urinary tract infection and subsequently, the prolong presence of microbioms in the bladder lead to bladder dysfunction (28). On the other hand, low vitamin D level increases the renal expression of endothelin -1 and decreases epithelial sodium channel activity, which is probably responsible for natriuresis (29). In summary low vitamin D can lead to various pathological situations. The existing evidences confirm a relationship between vitamin D deficiency and NE, yet more precise and comprehensive studies are warranted to affirm these findings”.
Thank you very much for your letter and advice.

2 Revision 1

1 comment · 29 Jan 2023

Leila Barati Reviewer

ACCEPT 29 Jan 2023

Dear Editor

All of the comments were answered, and corrections were made.
I approve the manuscript.

Best Regards

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Revision 2

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.

Dear EIC
Thank you very much for your letter and advice.
We hope the revision is acceptable, and I look forward to hearing from you soon. We would like to express our sincere thanks to the editor and reviewers for the constructive and positive comments.
Yours sincerely

Reviewer 1:
Dear Editor
***Q1**. All of the comments were answered and corrected.*
I approve the manuscript.
Best Regards
***R1**. Thank you very much.*

Associate Editor 1:
Q1. I have received the feedback from the reviewer and the reviewer is satisfied with the changes requested. I think it can be accepted.
R1. Thank you very much.

EIC Decision:
Q1. A study with an Author alone is unusual and you accepted all authorship roles (including design, data gathering, and manuscript preparation), alone. According to Research Ethics Committees Certifcare, this study was a medical student thesis. Please explain the role of Seyedeh Fatemeh Azimi or other academic staff (as co-supervises) in this study. It is unethical if you missed their names in this report

Dear EIC
R1. Thank you for your advice. I did not miss any names. According to the author names of supervisor/student in the certificate of ethic approval, I declare that the supervisor/student only registered my proposal of this project in the ethics committee and had no role in conducting the research, data collection and other stages of this research.
I sent Dr Azimi and Dr Rezakhaniha declaration for you as two file ***(other file).*** They declared that did not have any role in the design, data gathering, and manuscript preparation. However, I will do it as you see correct.

Sincerely

Corresponding author

3 Revision 2

0 comments

No public comments in this round.