

Peer Review

Review of: "Investigating the Role of Vitamin D in the Prevention and Control of Dengue Virus Vectors and Related Diseases: A Systematic Review"

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Dear Editor,

In this study, the authors have investigated the effect of vitamin D on the process of dengue virus infection. The process of writing the article as a systematic review has been done well, although the number of reviewed articles is not enough for a systematic review article, and the statistical analysis section, which is an important part of a systematic review, is not seen. It is suggested to submit this study in the form of a narrative review. However, there are some modifications that should be considered.

1- The title should be corrected. What role can vitamin D play in controlling the vector of the dengue virus, which is a mosquito? Also, there is no mention of the vector in the article.

2- In the results section, this sentence is ambiguous: "Conversely, overexpression of miR-155-5p, miR-130a-3p, miR-182-5p, and miR-125b-5p significantly reduced the infection and proliferation rate of DENV-2 in MDMs. Given that vitamin D3 supplementation differentially regulates the expression of inflammatory microRNAs and can modulate the immune system, vitamin D3 may play a key role in the inflammatory response to DENV infection." In this sentence, it is not clearly stated what effect vitamin D has on the expression of the mentioned microRNAs and whether it causes a decrease or increase in their expression.

3- In the introduction, it has been mentioned that the results of examining the role of vitamin D in improving the process of various infectious diseases have been different, but in the discussion section, almost only studies have been mentioned that have shown the positive effect of vitamin D in

improving diseases and the immune system. Studies with opposite results should be mentioned in the discussion section, and this contradiction should be discussed.

Declarations

Potential competing interests: No potential competing interests to declare.