

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,

Appreciating your trust in me, the Manuscript: "Investigating the Role of Vitamin D in the Prevention and Control of Dengue Virus Vectors and Related Diseases: A Systematic Review" is evaluated as follows:

The manuscript is well-structured, adhering to the standard format of systematic reviews (introduction, methods, results, discussion, and conclusion).

Meanwhile, some sentences are overly complex or redundant, especially in the results and discussion sections. Simplifying these for better readability would improve comprehension.

The introduction could provide a more comprehensive overview of the global burden of dengue and the rationale for choosing Vitamin D over other micronutrients.

The discussion section occasionally diverges into broader topics, such as Vitamin D's role in non-dengue viral infections, which slightly detracts from the central focus.

The review's novelty is somewhat limited by the small number of included studies (only six). A broader dataset would have strengthened the conclusions.

The exclusion of gray literature (e.g., unpublished data or non-English studies) might have introduced publication bias.

There is limited discussion of the heterogeneity among included studies, such as variations in study design, sample size, or Vitamin D dosages.

The review highlights the potential of Vitamin D as a low-cost, accessible supplement in dengue management, which is highly relevant for resource-limited settings. However, practical recommendations for dosage, duration, and administration need more emphasis.

- Suggestions for Improvement

Expand the introduction to highlight the significance of dengue and the current limitations of existing treatment options.

Address the limitations of the review more explicitly, including the small number of studies and potential biases.

Avoid digressions into non-dengue-related topics in the discussion and focus on synthesizing findings specific to dengue.

Suggest future research directions, including large-scale clinical trials to validate findings.

Declarations

Potential competing interests: No potential competing interests to declare.