

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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Firstly, I'd like to acknowledge your interest in this important topic. Mentioned below are brief comments.

1. Small Evidence Base: Only six studies included, which emphasizes the fragility of the evidence. Recommendation: Can you provide examples of how the geographic representation of the studies might affect the findings?
2. Dose Response and Safety: Dosing (IU/day) is inconsistently reported; safety considerations of high-dose vitamin D are missing. Recommendation: What specific information should be included in the discussion to address the uncertainties around optimal vitamin D dosing?
3. Terminology Consistency: Terms such as vitamin D, vitamin D3, and 1,25(OH)₂D are used interchangeably. Recommendation: Standardize terminology and define at first use.
4. Discussion Needs Causality Emphasis: The discussion should clarify that most evidence is in vitro or observational; causality cannot be concluded.
5. Mechanistic Summary Figure/Table: Suggest including a summary figure or table of vitamin D immunomodulatory mechanisms to strengthen clarity.
6. Inclusion/Exclusion Criteria: Mentions points 1-4 and then jumps to 6. Point 5 is missing, which is a typo error and needs correction.

Declarations

Potential competing interests: No potential competing interests to declare.