

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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Discrepancy Between PROSPERO Protocol and Published Article

The registered PROSPERO protocol ("*Knockdown resistance (kdr) Associated Organochlorine Resistance in Mosquito-Borne Diseases*") is entirely unrelated to the topic of this systematic review on vitamin D. This raises serious concerns about methodological transparency and adherence to pre-specified objectives. If a different protocol was followed, the correct registration details should be provided. Otherwise, the review lacks a valid registered protocol, which should be acknowledged and justified.

Lack of a Clear Search Strategy

Additionally, the reported retrieval of over 20,000 results appears excessive, indicating a broad or improperly structured search. The authors should clarify how the search was conducted and refined, including any use of filters or manual screening to reduce irrelevant records.

Methods Section Contains Results

The *Study Selection* subsection in the Methods section presents results, which is inappropriate. The Methods section should strictly describe the study design, search strategy, inclusion/exclusion criteria, data extraction process, and RoB assessment. The number of included/excluded studies should be reported in the Results section instead. Please revise the manuscript to ensure proper structuring.

Missing Data in the Results Section

The Methods section states that data extraction included study characteristics (e.g., first author, study design, publication date, sample size, type of intervention, outcome measured, and duration of follow-up). However, these extracted data are missing from the Results section. The authors should ensure that all extracted study details are reported, either in text or in tabular format, to improve transparency and allow readers to assess the included studies.

Declarations

Potential competing interests: No potential competing interests to declare.