

Peer Review

Review of: "Novel Technologies for Intradermal Delivery of Fractional-Dose Inactivated Poliomyelitis Vaccine: A Review of Implementation Research and Implications for Equitable Vaccine Access"

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The manuscript addresses a timely and important topic in global health, focusing on an innovative strategy to improve vaccine equity. The premise is strong and relevant to ongoing polio eradication efforts. However, in its current form, the review requires significant revisions to meet the standards of a rigorous systematic or scoping review and to maximize its impact for readers and policymakers.

Major Revisions Required:

Methodological Rigor & Structure: The article is presented as a review but lacks a clear, reproducible methodology. To be considered a meaningful review article, it **must include a PRISMA-style flow diagram** detailing the study selection process. Please explicitly describe:

The databases searched and the search strategy/query.

Inclusion and exclusion criteria (study types, dates, languages).

The number of records identified, screened, assessed for eligibility, and finally included.

The rationale for study selection. This transparency is essential for assessing the comprehensiveness and potential biases of your review.

Visual Elements and Data Synthesis: The text is currently dense and would benefit greatly from visual summaries. **Several key figures are required:**

Figure 1 (Required): A PRISMA Flow Diagram of the review process.

Figure 2: A schematic or table comparing the novel intradermal delivery devices/technologies (e.g., microarray patches, jet injectors), highlighting their mechanism, advantages, limitations, and stage of development.

Figure 3: A conceptual framework diagram linking the barriers and facilitators of implementation (e.g., cost, training, cold chain, acceptability) to outcomes related to equitable access.

Figure 4: A map or table summarizing the geographical settings and key findings of the implementation research studies reviewed, clearly identifying evidence gaps.

Referencing and Scholarly Depth: The reference list must be updated to meet contemporary scholarly standards. Every reference, where available, must include its Digital Object Identifier (DOI). This is non-negotiable for ensuring proper citation tracking and verification. Please check and update the entire reference list accordingly.

Grammar and Language Polish: The manuscript requires thorough language editing to strengthen grammatical accuracy, improve sentence flow, and enhance clarity. I recommend professional proofreading or a detailed revision by a native English speaker to ensure the text is concise and academically sound.

Declarations

Potential competing interests: No potential competing interests to declare.