

REVIEWER'S REPORT

Manuscript No.: IJAR-52235

Date: 13/06/2025

Title: Vaccination and the Battle Against Polio: A Public Health Triumph

Recommendation:

- ✓ Accept as it is
 Accept after minor revision.....
 Accept after major revision
 Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer Name: Dr. S. K. Nath

Date: 13/06/2025

Reviewer's Comment for Publication:

The paper concludes that vaccination has been instrumental in controlling and nearly eradicating polio worldwide, with India's exemplary campaign demonstrating the power of comprehensive public health interventions. Despite remarkable progress, continued vigilance, sustained immunization efforts, and strengthened surveillance are essential, especially in regions where the virus still circulates. The eradication of polio is achievable through persistent global commitment.

Reviewer's Comment / Report

Strengths

- **Comprehensive Historical Background:** The paper effectively details the history of polio and vaccine development, providing context for the current status.
- **Focus on India's Success:** It highlights India's strategic public health interventions, including the Pulse Polio campaign, which serves as a model for other countries.
- **Integration of Virological and Epidemiological Data:** The article explains the virology, transmission routes, and diagnosis, offering a scientific foundation.
- **Emphasis on Public Health Strategies:** It underscores the importance of mass immunization, herd immunity, and international cooperation.
- **Clear Visuals and Timeline:** The inclusion of lifecycle diagrams and milestones facilitates understanding.

Weaknesses

- **Limited Discussion on Challenges:** The paper could further elaborate on logistical, cultural, and socio-economic barriers faced during vaccination campaigns.
- **Insufficient Coverage of Post-Eradication Surveillance:** More detail on surveillance, detection, and response measures in maintaining polio-free status could strengthen the discussion.
- **Lack of Recent Data on Polio Residue:** It does not extensively cover the current risks posed by vaccine-derived polioviruses or emerging challenges.
- **Absence of Broader Global Context:** The focus is primarily on India, with less emphasis on ongoing challenges in other remaining endemic regions.
- **Minimal Mention of Future Strategies:** The paper could better explore strategies to sustain eradication and prevent re-emergence.