Review of: "Analysing the Automation of Artificial Knowledge in Virology for Safety and Effectiveness in Healthcare: Equilibrium of Advancement and Trials for Secure and Productive Health Necessities"

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Potential competing interests: No potential competing interests to declare.

The manuscript provides a short review of AI applications in healthcare and virology, with a specific focus on India. It showcases AI's potential in areas like disease detection, virus behavior research, vaccine development, and medical imaging analysis. Real-world examples, such as AI use by the Serum Institute of India and companies like Tata Consultancy Services and Wipro, add valuable context. The manuscript also addresses key challenges, including data privacy, algorithmic bias, and regulatory issues, offering a balanced view of both opportunities and obstacles.

While the article is promising, several areas need improvement:

1. Clear Hypothesis and Objectives: The introduction would benefit from a clear statement of the hypothesis and objectives to provide a more structured flow and guide the reader through the subsequent sections.

2. Flow and Structure: The manuscript's flow is somewhat disjointed, with some sections appearing repetitive or out of sequence.

3. Depth of Discussion: The discussion on AI applications in different areas lacks depth. For example, the differences in AI applications between global and Indian contexts could be elaborated.

4. Context and Explanation: Data and results are sometimes presented without sufficient context or explanation, making it difficult for readers to understand their significance.

5. Technical Terms: Some technical terms and jargon are used without adequate explanation, which might be challenging for readers not familiar with the field.

6. Over-Reliance on AI: The manuscript mentions the potential dangers of over-reliance on AI but does not fully explore the implications or provide solutions.

7. AI in Bioweapons: The section on AI in bioweapons is critical but seems somewhat disconnected from the rest of the manuscript.

8. Future Directions: Offer a more comprehensive discussion of future research directions and potential developments in

AI applications in healthcare and virology. Highlight areas where further research is needed and propose potential avenues for future studies.

Overall, while the manuscript is a good article, addressing these areas would significantly improve its clarity and impact.