

## Peer Review

# Review of: "Human Metapneumovirus: What We Know So Far – A Mini Review"

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The manuscript is well-written, with a clear structure and comprehensive coverage of the topic. Below are some suggested corrections and improvements to enhance clarity, readability, and consistency:

- Some sentences are dense. Simplify or break them into shorter ones for better readability.

### Introduction

- **Original:** "Retrospective data suggest it has circulated for at least half a century."
  - **Suggestion:** Specify the starting timeframe (e.g., "since the 1970s") if possible, for precision.
- **Original:** "HMPV poses substantial risk to young infants and vulnerable populations."
  - **Suggestion:** Clarify what constitutes "vulnerable populations" (e.g., elderly, immunocompromised individuals).

### Wastewater Surveillance

- **Original:** "Researchers identified a 'triple-demic' when IAV, RSV, and SARS-CoV-2 peaked simultaneously."
  - **Suggestion:** Briefly describe the significance of this "triple-demic" in terms of public health impact.
- **Original:** "Although HMPV also circulated, RSV and IAV events showed regional coherence, whereas HMPV was more localized."
  - **Suggestion:** Rephrase to clarify what "localized" means in the context of disease spread.

### Global Impact and Vulnerable Groups

- **Original:** "Globally, infants under one year are at heightened risk for severe HMPV infections—on par with RSV and influenza."

- **Suggestion:** Provide more detail or data comparing HMPV's severity to RSV and influenza.

#### **Advancements in Therapeutics and Vaccines**

- **Original:** "High-throughput single-cell analyses of memory B cells from young and elderly donors..."
  - **Suggestion:** Break this sentence into two. Start a new sentence after "donors" to enhance clarity.
- **Original:** "Researchers engineered a double-cleaved F protein with AI-identified stabilizing substitutions..."
  - **Suggestion:** Briefly explain what "double-cleaved" and "AI-identified stabilizing substitutions" mean for readers unfamiliar with these terms.

#### **Regional Studies (Taiwan and Indonesia)**

- **Taiwan:** Add context to explain why seasonal variations and geographic differences in detection rates are significant.
- **Indonesia:** Clarify the implications of findings like co-infections and genotype diversity on disease management strategies.

#### **Declarations**

**Potential competing interests:** No potential competing interests to declare.