

## Case Report

# Human Metapneumovirus (HMPV) Infection Treatment of 3 Years Old Male

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## Article Info

### Article history:

Received: January 27, 2025

Accepted: February 28, 2025

Published: March 15, 2025

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Human metapneumovirus (HMPV) is primary cause of the acute respiratory infection, especially, in children, immunocompromised patient and elder people [1]. In this case report, the treatment strategy for HMPV has been discussed.

A 3 years old male presented symptoms of high-grade fever (40.55°C), headache, muscle ache; especially in back, cough, difficulty in breathing, runny nose, swollen lymph node, rash development on 7 August 2023. He had no significant past medical history, except for occasional episodes of upper respiratory tract infections. On August 10, 2023, he was admitted in hospital in pediatric ward at Pune, Maharashtra, India with oxygen therapy, intravenous antibiotics, and supportive care.

On physical examination, he was found to be febrile, tachypneic, tachycardic, with bilateral lung fields revealing coarse crepitations and wheezes. Laboratory investigations revealed leukocytosis with neutrophilia, bilateral peribronchial infiltrates by chest X-ray [2], and a positive nasopharyngeal swab for Human Metapneumovirus (HMPV) by real-time polymerase chain reaction (RT-PCR) [3].

The patient was treated with Tecovirimat, paracetamol (for fever and pain relief), Ibuprofen (to reduce muscle ache), intravenous fluids, and the topical antibiotic mupirocin. The patient showed significant improvement in his symptoms over the next 7-10 days,

On August 25, 2023, he was discharged from the hospital. On September 5, 2023, the patient was fully recovered.

This case highlights importance of quick diagnosis and proper treatment for recovery of the patient from HMPV illness. It's essential for parents and doctors to be aware of HMPV and take prompt action to prevent serious complications.



**Figure 1:** Rash development on the skin of a patient.

**Author contributions:** PT: Developed and idea and wrote the manuscript. RS, BS and AD: Verified the manuscript.

**Competing interest:** Authors declare that no conflict of interest exists.

**Ethical Statement:** This work has been performed with official permission of the patient under study.

**Grant Support Details:** Authors did not get funding from any agency to complete this work.

**Acknowledgement:** Authors are thankful to Dr. Bharat Shinde, Principal, Vidya Pratishthan's Arts, Science and Commerce College, Baramati, Maharashtra, India for his support to publish this work.

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**Cite this article as:**

Tavhare P, Sharma R, Shinde B, Dambare A, Jafarzadeh E. Human Metapneumovirus (HMPV) Infection Treatment of 3 Years Old Male. Int. J. Micro. Sci. 2025; 6(1):18-19.