

# **Monkeypox Resurgence: Global Health Trends and Strategic Outlook**

**Sunil.B.Rathod<sup>1</sup>, Vaishnavi V. Jambhukar<sup>2</sup>, Payal S. Ghode<sup>3</sup>, Reshma D. Pawar<sup>4</sup>**  
Sahakar Maharshi Kisanrao Varal Patil College of Pharmacy, Nighoj, Ahmednagar<sup>1-4</sup>

**Abstract:** Monkeypox, a zoonotic viral disease caused by the monkeypox virus (MPXV), has re-emerged as a significant global public health concern. This review examines the publication Monkeypox in Focus: Current Trends and Future Outlook, which explores the epidemiology, virology, clinical management, and public health implications of MPXV. The first case in a nonendemic country was confirmed on May 6, 2022, leading to over 53,000 cases by September 1, prompting the WHO to declare a public health emergency of international concern. The review emphasizes biosafety strategies in response to the 2022 outbreak, analyzing MPXV's biological features, transmissibility, and variability.

Using bibliometric analysis, the study highlights a significant increase in monkeypox research, predominantly from the US, indicating a growing interest in this evolving field. The CDC emerged as a key contributor, producing the highest number of related publications. The Journal of Virology received the most citations, underscoring the importance of ongoing research in addressing knowledge gaps and facilitating effective public health interventions.

Particular attention is given to the unique characteristics of the disease, illustrating the need for rapid public health action tailored to the epidemiological differences in current outbreaks, especially in non-endemic regions. The review also considers future research directions in vaccine development and sociopolitical factors influencing decision-making strategies, drawing lessons from the COVID-19 pandemic response. Overall, this work emphasizes the urgent need for coordinated global efforts to manage and control monkeypox effectively.

**Keywords:** Monkeypox, Zoonotic diseases, Public health, Virology, Epidemiology, Vaccines, Global outbreaks., Mpox, Orthopoxvirus, Variola minor, Smallpox, Fever, Swollen lymph nodes, Contact transmission, Respiratory droplets, Vaccination, Isolation, Contact tracing, Quarantine

