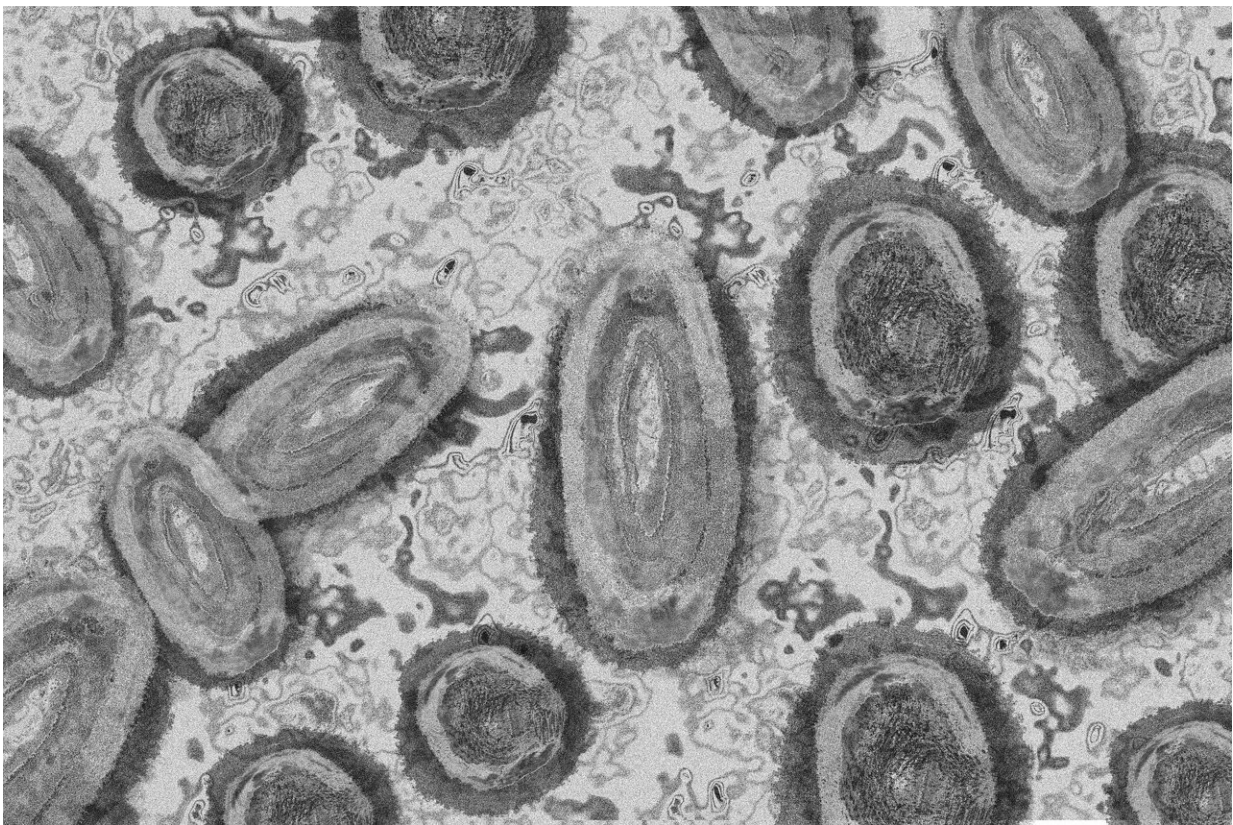


# New clinical symptoms identified in largest international case series of confirmed monkeypox cases

July 21 2022, by Sophia Prout

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A case series which is the result of an international collaboration across 16 countries is published today (21 July 2022) in *The New England*

*Journal of Medicine (NEJM)*. The study identifies new clinical symptoms of monkeypox infection, which will aid future diagnosis and help to slow the spread of infection. It was carried out in response to the emerging global health threat and is the largest case series to date, reporting on 528 confirmed infections at 43 sites between 27 April and 24 June 2022.

The current spread of the virus disproportionately affects gay and bisexual men, with 98% of infected persons from this group. Although sexual closeness is the most likely route of transmission in most of these cases, researchers stress that the virus can be transmitted by any close physical contact through large respiratory droplets and potentially through clothing and other surfaces.

There is a [global shortage](#) of both vaccines and treatments for human [monkeypox](#) infection. The findings of this study, including the identification of those most at risk of infection, will help to aid the global response to the virus. Public health interventions aimed at the high-risk group could help to detect and slow the spread of the virus. Recognizing the disease, contact tracing and advising people to isolate will be key components of the public health response.

Many of the infected individuals reviewed in the study presented with symptoms not recognized in current medical definitions of monkeypox. These symptoms include single genital lesions and sores on the mouth or anus. The clinical symptoms are similar to those of sexually transmitted infections (STIs) and can easily lead to misdiagnosis. In some people, anal and oral symptoms have led to people being admitted to hospital for management of pain and difficulties swallowing. This is why it's so important that these new clinical symptoms be recognized and [healthcare professionals](#) be educated on how to identify and manage the disease—misdiagnosis can slow detection and thus hinder efforts to control the spread of the virus. The study will therefore lead to increased rates of diagnosis when persons from at-risk groups present with

traditional STI symptoms.

Public health measures—such as enhanced testing and education—should be developed and implemented working with at-risk groups to ensure that they are appropriate, non-stigmatizing, and to avoid messaging that could drive the outbreak underground.

Chloe Orkin, Professor of HIV Medicine at Queen Mary University of London and Director of the SHARE collaborative, said, "Viruses know no borders and monkey pox infections have now been described in 70 countries and in more than 13,000 people. This truly global case series has enabled doctors from 16 countries to share their extensive clinical experience and many clinical photographs to help other doctors in places with fewer cases. We have shown that the current international case definitions need to be expanded to add symptoms that are not currently included, such as sores in the mouth, on the anal mucosa and single ulcers. These particular symptoms can be severe and have led to hospital admissions so it is important to make a diagnosis. Expanding the case definition will help doctors more easily recognize the infection and so prevent people from passing it on. Given the global constraints on vaccine and anti-viral supply for this chronically underfunded, neglected tropical infection, prevention remains a key tool in limiting the global spread of human monkeypox infection."

Dr. John Thornhill, Consultant Physician in Sexual Health and HIV and Clinical Senior Lecturer at Barts NHS Health Trust and Queen Mary University of London, said, "It is important to stress that monkeypox is not a sexually transmitted [infection](#) in the traditional sense; it can be acquired through any kind of close physical contact. However, our work suggests that most transmissions so far have been related to [sexual activity](#)—mainly, but not exclusively, amongst men who have sex with men. This research study increases our understanding of the ways it is spread and the groups in which it is spreading which will aid rapid

identification of new cases and allow us to offer prevention strategies, such as vaccines, to those individuals at higher risk.

"In addition, we identified new clinical presentations in people with monkeypox. While we expected various skin problems and rashes, we also found that one in ten people had only a single skin lesion in the genital area, and 15% had anal and/or rectal pain. These different presentations highlight that monkeypox infections could be missed or easily confused with common sexually transmitted infections such as syphilis or herpes. We therefore suggest broadening the current case definitions.

"We have also found monkeypox virus in a large proportion of the semen samples tested from people with monkeypox. However, this may be incidental as we do not know that it is present at a high enough levels to facilitate sexual transmission. More work is needed to understand this better."

Keletso Makofane, MPH, Ph.D., Health and Human Rights Fellow at Harvard University, said, "Wherever the monkeypox virus has shown up, it has tested the ability of our public health systems to respond decisively and urgently during an emergency. It is gratifying to be part of a collective which has worked furiously to gather and share information with each other and with the global public health community."

**More information:** Monkeypox Virus Infection in Humans across 16 Countries—April–June 2022, *New England Journal of Medicine* (2022). [DOI: 10.1056/NEJMoa2207323](https://doi.org/10.1056/NEJMoa2207323)

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