

Mpox (Previously Monkeypox)

Overview















Mpox is a rare zoonotic disease that is caused by infection with mpox virus. The enveloped virus was first identified in 1958 when two outbreaks of a pox-like disease occurred in colonies of monkeys kept for research, hence its historical name of “monkeypox.” Mpox has been endemic in several African countries since the first human case was recorded in 1970 in the Democratic Republic of the Congo (DRC). There have been ongoing outbreaks in Nigeria, DRC and Cameroon.¹ Prior to 2022, the last outbreak in the U.S. was in 2003 from pet prairie dogs that became infected after being housed with rodents imported from Africa.¹ Mpox symptoms are similar to smallpox symptoms, but milder, and mpox is rarely fatal.¹ Mpox can spread to anyone through close, personal, often skin-to-skin contact including intimate sexual contact.¹ The risk to the general public and healthcare workers is very low.

About the Pathogen & Infection Control Measures

Infectious Agent (Pathogen)²	Agent Type: Enveloped Virus Taxonomy: ▶ Family: <i>Poxviridae</i> ▶ Genus: <i>Orthopoxvirus</i>	▶ Species: mpox virus ▶ Strain: Clade I, Clade IIa, Clade IIb Synonym(s): MPXV, Monkeypox Characteristics: Enveloped virus
Infectious Characteristics Definitions: ▶ Incubation period—the time from exposure to infection with symptoms. ▶ Period of communicability—time when a pathogen can be transmitted from one person to another. ▶ Mortality rate—the number of deaths due to a disease divided by the total population.	Risk factors for severe illness:^{2,3} Incubation period:^{1,4} Period of communicability:³ Signs & symptoms:¹ Duration of illness:² Severity of illness and Mortality Rate:¹	Persons with compromised immune systems, pediatric patients, pregnant women, or people with other concurrent infections may be at greater risk for serious disease from mpox infection. Clade I causes more severe illness than Clade II. ³ 3–17 days. The average incubation period for the 2022 outbreak was 7 days. At symptom onset but may occur 1–4 days before symptoms begin, and until rash has fully healed and a new layer of skin has formed. Some people may experience all or only a few symptoms including: Flu-like symptoms—fever, headache, chills, exhaustion, swollen lymph nodes, muscle aches, rash/lesions. Mpox is usually a self-limited disease with symptoms lasting from 2 to 4 weeks. Most mpox clade II infections are mild to moderate and is rarely fatal. Over 99% of people who get this form of the disease are likely to survive. Clade I mpox infections have a fatality rate of 10%
Mode(s) of Transmission^{1,3} How the Infection Spreads	Direct contact: Direct from person-person through close, personal, often skin-to-skin contact, including sexual contact, with an infected person. Less commonly, mpox can be spread from respiratory secretions and from direct contact with materials, such as clothing or linen, of an infected person. Mpox can also be transmitted from infected mother to unborn fetus.	
Survival on Surfaces⁵	Like other enveloped viruses, the mpox virus has the potential to survive for several weeks on surfaces.	
Immunization/Prophylaxis/Treatment¹	Vaccination is currently only recommended for select at-risk individuals per CDC guidance. Currently, there is no specific treatment approved for mpox.	
Infection Control Measures	General Measures for All Spaces (commercial buildings, K-12 schools, healthcare): ¹ ▶ Avoid close contact: Do not have contact with people with a rash that looks like mpox or any objects or material that person with mpox has used. ▶ Hand hygiene: Wash hands often and after touching lesion material, clothing, linens, or environmental surfaces that may be contaminated. ▶ Get vaccinated: Per CDC at-risk persons should consider immunization against mpox.	Healthcare-Specific Measures:¹ ▶ Isolation Precautions: Standard and modified isolation precautions in a single patient room with a dedicated bathroom. Special air handling not required. Keep the door closed if it is safe to do so. Aerosol-generating procedures should be done in an airborne isolation room. ▶ PPE: Use personal protective equipment (PPE) when caring for patients—gown, gloves, eye protection, NIOSH-approved particulate respirator equipped with N95 filters or higher. ▶ Patient Transport: Limit transport/movement outside of the patient room to medically essential purposes. Mask patient and cover any lesions with sheet or gown. ▶ Linens: Soiled laundry should be handled in accordance with recommended practices . Never shake or handle in a manner that may disperse infectious material. ▶ Waste management: Waste management should be handled in accordance with federal, state, and local regulations. Note: For Mpox Clade IIb, waste may be managed as Regulated Medical Waste (Category B). If Clade I is suspected, waste should be managed as Category A Waste .
Cleaning & Disinfection¹	The CDC recommends use of a disinfectant that is registered with the Environmental Protection Agency (EPA) from List Q with an emerging viral pathogen (EVP) claim. Disinfect contaminated surfaces following all manufacturer directions for use, including concentration, contact time, and care and handling.	

Clorox Product Recommendations

The Environmental Protection Agency (EPA) has activated its Emerging Viral Pathogens (EVP) Policy to allow product manufacturers to make off-label claims about effectiveness against the mpox virus. The EVP Policy is an important tool which allows for a quick way to address environmental surface disinfection for an emerging viral pathogen of public health concern. The following CloroxPro cleaner-disinfectants have demonstrated effectiveness against viruses similar to the mpox virus on hard, nonporous surfaces and can be used against the mpox virus when used in accordance with the directions for use against the virus listed for each product in the table on hard, non-porous surfaces.

Products for use against Mpox		EPA Reg. No.	Follow contact time and DFU for
CloroxPro™ Clorox EcoClean™ Disinfecting Cleaner Item No. 60213 9/32 oz. Spray Item No. 60094 4/128 oz. Refill		67619-45	Rhinovirus (30 seconds)
CloroxPro® Clorox® Germicidal Bleach Item No. 30966 3/121 oz. Bottle		67619-32	Rhinovirus (5 minutes)
CloroxPro® Clorox® Disinfecting Wipes Item No. 15949 Fresh Scent Wipes, 6/75 ct. Item No. 15948 Lemon Scent Wipes, 6/75 ct. Item No. 31547 Fresh Scent Wipes, 1/700 ct. bucket Item No. 31428 Fresh Scent Wipes, 2/700 ct. refill		67619-31	Rotavirus (4 minutes)
CloroxPro® Clorox® Clean-Up® Disinfectant Cleaner with Bleach Item No. 31903 9/32 oz. Spray Item No. 31910 4/128 oz. Refill		67619-17	Rhinovirus (Spray 30 seconds) (Direct application by cloth—5 minutes)
CloroxPro® Clorox® Disinfecting Spray Item No. 38504 12/19 oz.		67619-21	Rhinovirus (30 seconds)
CloroxPro® Clorox® Disinfecting Bio Stain & Odor Remover Item No. 35417 9/32 oz. Spray Item No. 35420 4/128 oz. Refill		67619-33	Norovirus (5 minutes)
Clorox Healthcare® Bleach Germicidal Wipes Item No. 30577 6" x 5" Wipes Canister 6/150 ct. Item No. 35309 6.75" x 9" Wipes Canister 6/70 ct. Item No. 32621 6.75" x 9" Wipes Softpack 9/100 ct. Item No. 31424 6.75" x 9" Individual Wipes 6/50 ct. Item No. 30358 12" x 12" Wipes Bucket 2/110 ct. Item No. 30359 12" x 12" Wipes Bucket Refill 2/110 ct.		67619-12	Rhinovirus (1 minute)
Clorox Healthcare® Bleach Germicidal Cleaner Item No. 68970 6/32 oz. Spray Item No. 68978 4/128 oz. Refill		56392-7	Norovirus (1 minute)
Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes Item No. 30824 6.75" x 9" Wipes Canister 6/95 ct. Item No. 30825 6.75" x 5.75" Wipes Canister 6/155 ct. Item No. 30826 12" x 11" Wipes Bucket 2/185 ct. Item No. 30827 12" x 11" Wipes Bucket Refill 2/185 ct.		67619-25	Rhinovirus (1 minute)
Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Item No. 30828 9/32 oz. Spray Item No. 30829 4/128 oz. Refill		67619-24	Rhinovirus (1 minute)
Clorox Healthcare® VersaSure® Cleaner Disinfectant Wipes 6.75" x 8" Multi-purpose Wipes, 6/85 ct., Item No. 31757 6" x 5" Multi-purpose Wipes, 6/150 ct., Item No. 31758 12" x 12" Terminal Wipes, 2/110 ct., Item No. 31759 12" x 12" Terminal Wipes Refill, 2/110 ct., Item No. 31761		56392-7	Norovirus (5 minute)
Clorox Healthcare® Fuzion® Cleaner Disinfectant Item No. 31478 9/32 oz. Spray		67619-30	Rhinovirus (1 minute)

1. CDC. About Mpox: Your Health. [Internet]. [Cited 2024 Jan 16]. Available from <https://www.cdc.gov/poxvirus/mpox/your-health/index.html>
2. WHO. Mpox (monkeypox): Key Facts. [Internet]. [Cited 2024 Jan 16]. Available from <https://www.who.int/news-room/fact-sheets/detail/monkeypox>
3. WHO. Mpox: What we know; Dec 1, 2023 [Internet]. [Cited 2023 Dec 31]. Available from <https://www.who.int/multi-media/details/mpox-what-we-know>
4. NETEC. Mpox: Updates in Evaluation and Management, Sept 30, 2022. [Internet]. [Cited 2023 Aug 3]. Available from <https://netec.org/2022/09/30/monkeypox-updates-in-evaluation-and-management/>
5. Wißmann, J. E., Kirchhoff, L., Brüggemann, Y., et al. (2021). Persistence of pathogens on inanimate surfaces: A narrative review. *Microorganisms*, 9(2), 343.

For product resources and implementation tools, contact your Clorox sales representative, call 800-492-9729 or visit www.CloroxPro.com

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