

Monkeypox

Pathogen Education Sheet for Healthcare Professionals

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About	<p>Monkeypox is a rare zoonotic disease that is caused by infection with monkeypox virus. Monkeypox virus is an enveloped virus that belongs to the <i>Orthopoxvirus</i> genus in the family <i>Poxviridae</i>. The <i>Orthopoxvirus</i> genus also includes variola virus (which causes smallpox), vaccinia virus (used in the smallpox vaccine) and cowpox virus.¹</p> <ul style="list-style-type: none"> ▶ Monkeypox 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 ▶ Cases outside of Africa are often linked to international travel or imported animals. ▶ The last outbreak in the U.S. was in 2003. The index cases were imported from pet prairie dogs that became infected after being housed with rodents imported from Africa.¹ ▶ The sudden appearance of monkeypox simultaneously in several non-endemic countries suggests that there may have been undetected transmission for some time as well as recent amplifying events.² ▶ Like other enveloped viruses, the monkeypox virus has the potential to survive for several days on surfaces.³ ▶ The risk to the general public is very low ("near zero").
Transmission mode	<ul style="list-style-type: none"> ▶ Direct contact with virus from an infected animal or human, or materials contaminated with the virus:⁴ <ul style="list-style-type: none"> • Prolonged close contact, including sexual contact, with an infected person. • Direct contact with body fluids or sores of an infected person. • Direct contact with materials, such as clothing or linen, of an infected person. • Less commonly, monkeypox can be spread from respiratory secretions on an infected person during prolonged face-to-face contact. ▶ Monkeypox can also be transmitted from infected mother to unborn fetus.
Incubation period	7-14 days but range from 5-21 days. ⁵
Period of communicability	From symptom onset (typically 1-5 days before rash onset) until all scabs have fallen off with new skin underneath.
Signs and symptoms	Fever, headache, swollen lymph nodes, back pain, muscle aches, fatigue. Rash/lesions erupts within 1-3 days of appearance of fever. The rash is usually concentrated on the face, palms, soles and genitals. ⁶
Vaccine preventable	Yes, but it is not available to the general public. The risks of this live virus vaccine outweigh the benefits given the risk of acquiring the disease is near zero for the general population. Vaccination is reserved for those who have had an exposure and lab workers.
Treatment	There is no specific treatment for this self-limited disease, with most people recovering within a few weeks. ⁷ Smallpox vaccine, cidofovir, ST-246 and vaccinia immune globulin (VIG) can be used to control a monkeypox outbreak. There is a vaccine, but it is not available to the general public. Rather, it is reserved for those who have been exposed.
Infection prevention and control measures	<p>The CDC recommends the following for healthcare settings:⁸</p> <ul style="list-style-type: none"> ▶ Airborne and Contact Isolation Precautions in a single person room with dedicated bathroom in a negative pressure isolation room. ▶ Use personal protective equipment (PPE) when caring for patients — gown, gloves, eye protection, N95 mask or respirator. ▶ Limit transport and movement outside of the patient's room. ▶ If the patient is transported outside of their room, they should use well-fitting source control (e.g., medical mask) and have any exposed skin lesions covered with a sheet or gown. ▶ Aerosolizing procedures should be done in an airborne isolation room. ▶ Perform hand hygiene after contact with infected animals or humans. ▶ Soiled laundry should be handled in accordance with standard precautions. ▶ Waste associated with monkeypox virus is considered Category A Waste and should be handled in accordance with DOT.⁹

Cleaning & disinfecting

The CDC recommends use of a disinfectant that is registered with the Environmental Protection Agency (EPA) and has an emerging viral pathogen claim.⁹ These products can be found on [EPA's List Q](#).¹⁰

Clorox Product Recommendations

The following Clorox Healthcare® cleaner disinfectants can be used to effectively manage monkeypox virus on environmental surfaces and equipment in healthcare settings:

Product	EPA Reg. No.	Contact time (enveloped virus emerging pathogen)
Clorox Healthcare® Bleach Germicidal Wipes 6" x 5" Clinical Wipes, 6/150 ct., Item No. 30577 6.75" x 9" Multipurpose Wipes, 6/70 ct., Item No. 35309 6.75" x 9" Multipurpose Wipes, 9/100 ct., Item No. 32621 6.75" x 9" Individual Wipes, 6/50 ct., Item No. 31424 12" x 12" Terminal Wipes, 2/110 ct., Item No. 30358 12" x 12" Terminal Wipes Refill, 2/110 ct., Item No. 30359		67619-12 1 minute (Rhinovirus)
Clorox Healthcare® Bleach Germicidal Cleaners 6/32 fl. oz. Spray, Item No. 68970 6/32 fl. oz. Pull-Top, Item No. 68832 4/128 fl. oz. Refill, Item No. 68978		56392-7 1 minute (Norovirus)
Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes 6.75" x 9" Multipurpose Wipes, 6/95 ct., Item No. 30824 6.75" x 5.75" Clinical Wipes, 6/155 ct., Item No. 30825 12" x 11" Terminal Wipes, 2/185 ct. bucket, Item No. 30826 12" x 11" Terminal Wipes, 2/185 ct. refill pouch, Item No. 30827 6.75" x 9" Individual Wipes, 6/50 ct. carton, Item No. 31426		67619-25 1 minute (Rhinovirus)
Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Liquids 9/32 fl. oz. Trigger Spray, Item No. 30828 9/32 fl. oz. Pull-Top Bottle, Item No. 31444 4/128 fl. oz. Refill, Item No. 30829		67619-24 1 minute (Rhinovirus)
Clorox Healthcare® VersaSure® Cleaner Disinfectant Wipes 6.75" x 8" Multipurpose Wipes, 6/85 ct., Item No. 31757 6" x 5" Clinical Wipes, 6/150 ct., Item No. 31758 12" x 12" Terminal Wipes, 2/110 ct. bucket, Item No. 31759 12" x 12" Terminal Wipes, 2/110 ct. refill pouch, Item No. 31761		67619-37 5 minutes (Norovirus)
Fuzion® 9/32 fl. oz. Spray, Item No. 31478		67619-30 1 minute (Rhinovirus)
CloroxPro® Clorox® Disinfecting Wipes Fresh Scent Wipes, 6/75 ct., Item No. 15949 Lemon Scent Wipes, 6/75 ct., Item No. 15948 Fresh Scent Wipes, 1/700 ct. bucket, Item No. 31547 Fresh Scent Wipes, 2/700 ct. refill, Item No. 31428 Fresh Scent Wipes, 9/70 ct. flexpack, Item No. 60034 Fresh Scent Wipes, 900/1 ct. single, Item No. 60048		67619-31 4 minutes (Rotavirus)
CloroxPro® Clorox® Disinfecting Bio Stain & Odor Remover 9/32 fl. oz. Trigger Spray, Item No. 31903 6/32 fl. oz. Pull-Top Bottle, Item No. 31910 4/128 fl. oz. Refill, Item No. 31910		67619-33 5 minutes (Norovirus)
Clorox® Total 360® Disinfectant Cleaner 3/121 fl. oz. Ready to use, Item No. 60091 4/128 fl. oz. For Total 360® Devices, Item No. 31650		67619-38 2 minutes (Adenovirus Type 2)

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