# This is an official CDC HEALTH UPDATE

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# Prevention Strategies for Mpox, including Vaccinating People at Risk via Sexual Exposure, for U.S. Travelers Visiting Countries with Clade I Mpox Outbreaks

#### **Summary**

The Centers for Disease Control and Prevention (CDC) is issuing this Health Alert Network (HAN) Health Update to provide additional information about the ongoing outbreak of clade I monkeypox virus (MPXV), the virus that causes mpox, in Central and Eastern Africa. This report is an update to HAN Health Advisory 501 issued in December 2023 and HAN Heath Update 513 in August 2024. MPXV transmission in countries where the virus is endemic is typically via exposure to infected wildlife with subsequent person-to-person spread via close contact (including intimate or sexual contact) with a person with mpox, or direct contact with their respiratory secretions (e.g., snot, mucus) or contaminated objects (e.g., bedding). During the global clade II outbreak, human-to-human transmission of mpox has been predominantly spreading through sexual contact. During 2024, the Democratic Republic of the Congo (DRC) has reported >21,000 suspected clade I mpox cases, its largest annual number on record. Although the proportion of people impacted in DRC (population >99 million) is relatively low, cases are more widespread than in any previously reported DRC outbreak. Clade la mpox cases are impacting the western part of DRC (particularly the rural Équateur Province). No cases of clade la mpox have been reported outside Central African countries where clade Ia MPXV is endemic. Clade Ib mpox cases are impacting the eastern part of DRC and have been spread through regional travel. Early data indicate that a large proportion of clade Ib mpox cases among adults has been associated with sexual contact, including via ongoing transmission believed to be occurring in some countries where the virus is not normally found. Travelers to DRC or other countries with sustained spread of clade I mpox, regardless of sexual orientation or gender identity, should be made aware of activities associated with cases and should be vaccinated with two doses of JYNNEOS if they anticipate certain sexual exposures while traveling. Active monitoring for mpox continues to occur in the United States. Although the United States continues to be affected by an ongoing global outbreak of clade II mpox that began in 2022, no domestic cases of clade I mpox have been identified in the United States at this time. Continue to follow CDC's current vaccine guidance to prevent clade II MPXV infection, which continues to circulate in the United States, and will also help protect against clade I MPXV.

# **Background**

MPXV has two distinct genetic clades: clade I (with subclades Ia and Ib) is endemic to some countries in Central Africa, and clade II (with subclades IIa and IIb) is historically endemic to some countries in West Africa. Since December 2023, CDC has recommended travelers to DRC practice enhanced precautions (Level 2 Travel Health Notice). This recommendation was expanded to include neighboring countries in August 2024. In 2023, DRC reported >14,000 suspected clade I mpox cases. As of September 18, 2024, >21,000 suspected clade I mpox cases have been identified in DRC, its largest annual number on record. This includes >700 deaths in a population of >99 million people.

## In the current outbreaks in Central and Eastern Africa:

 Clade la mpox cases are impacting the western part of DRC (particularly Équateur Province, which is comprised of mostly rural areas). Although most cases are not laboratory-confirmed, available data indicate that clade la MPXV is spreading through multiple modes of transmission: contact with infected dead or live wild animals, household contact often involving crowded

- households, or sexual contact. Outside of countries where MPXV is endemic in Central Africa (e.g., DRC, Republic of the Congo (ROC), and Central African Republic (CAR)), no cases of clade la mpox have been reported.
- Clade Ib mpox cases were recently identified in eastern DRC. Available data indicate that it is predominantly spreading through intimate or sexual contact between adults (e.g., kissing, oral-genital, oral-anal, vaginal, or anal sex). These contacts may occur via sex with a new partner during travel (e.g., sex in exchange for money, goods, drugs, or other trade). Clade Ib mpox cases have been identified in other countries among travelers exposed in countries with ongoing transmission. Some neighboring countries where MPXV is not endemic, including Burundi, Rwanda, and Uganda, have reported further spread (e.g., via household contact); however, fewer than 0.002% of people in these countries where MPXV is not endemic have been diagnosed with mpox, suggesting that current risk for new exposures is low. Travel-associated cases of clade Ib mpox also have been reported in Kenya, Sweden, and Thailand; ongoing transmission is not believed to have occurred in those countries at this time.

Clade I MPXV has historically been associated with a higher proportion of severe infections compared to clade II MPXV; however, recent data suggest that previous severity estimates may have been too high. For example, a study conducted in DRC showed that routine supportive care was associated with a lower clade Ia mpox case fatality rate (<2%) than previously referenced (3%–11%). Clade Ib mpox cases appear to be clinically milder than clade Ia mpox cases; in addition, clade Ib mpox cases in DRC have been associated with a lower case fatality rate than clade Ia mpox cases. No clade I mpox deaths have been reported from countries where MPXV is not endemic at this time.

In February 2023, the CDC Advisory Committee on Immunization Practices (ACIP) recommended a JYNNEOS vaccine series, with two doses administered 28 days apart, for people aged 18 years and older at risk of mpox during an mpox outbreak. This ACIP recommendation, which has been adopted by the CDC Director and is now official, leaves the determination of whether there is an mpox outbreak and the populations impacted to public health authorities. CDC has determined that ongoing human-to-human transmission of clade I MPXV in Central and East Africa is an outbreak and, in addition to general prevention strategies, recommends a JYNNEOS 2-dose vaccine series for persons at risk for mpox via sexual exposure during travel to a country with ongoing human-to-human transmission.

#### Recommendations for Clinicians and Public Health Practitioners

## During travel health visits:

- Discuss mpox prevention and risk reduction strategies with all travelers to countries with ongoing human-to-human transmission of clade I MPXV. Currently, these countries include Burundi, CAR, DRC, ROC, Rwanda, and Uganda. Note that ongoing transmission is not necessarily occurring in every country reporting mpox cases. An <u>updated list of the countries</u> with ongoing spread of clade I MPXV is available on the CDC website.
- Discuss patients' <u>sexual history</u> and travel plans, including if patients anticipate any sexual activity during travel. Up to one in three travelers will have sex with a new partner while on a trip.
- Advise travelers that mpox exposure risk is associated with sexual contact.
- Remind patients that mpox is not spread through casual contact, such as one might have in public spaces like markets, offices, or classrooms.
- Counsel patients on <u>activities that may increase risk</u> for MPXV exposure and risk reduction strategies if they have plans to travel to a <u>country where ongoing human-to-human transmission</u> of clade I MPXV is occurring. Travelers to affected countries should:
  - Avoid close contact with people who are sick with <u>signs and symptoms</u> of mpox, including skin or genital lesions.
  - Avoid contact with contaminated materials used by people who are sick, such as clothing, bedding, toothbrushes, sex toys, or materials used in healthcare settings.
- Advise patients about the risk for mpox exposure through sexual contact (regardless of sexual orientation or gender identity) associated with clade I MPXV.

- Recommend vaccination with the 2-dose JYNNEOS vaccine series to any adult, regardless of gender identity or sexual orientation, if:
  - They are traveling to a country where clade I MPXV is spreading between people, AND
  - They anticipate experiencing any of the following:
    - 1) Sex with a new partner
    - 2) Sex at a commercial sex venue, like a sex club or bathhouse
    - 3) Sex in exchange for money, goods, drugs, or other trade
    - 4) Sex in association with a large public event, such as a rave, party, or festival
- Recommend starting, if possible, the mpox vaccine series at least 6 weeks before travel begins, since two doses should be given 28 days apart and it takes 14 more days for immunity to peak.
- Emphasize <u>risk reduction strategies</u> in conversation with patients who are not eligible for vaccination, or who do not present in time to receive the two recommended vaccine doses 28 days apart
- Advise patients that two vaccine doses are more effective than one dose.
  - Two doses of JYNNEOS can <u>prevent mpox and may reduce the severity</u> of symptoms in people with mpox.
  - A <u>multijurisdictional study</u> conducted in 2022–2023 in the United States identified significant JYNNEOS vaccine effectiveness against clade IIb mpox: 75% after one dose and 86% after two doses.
- Consult CDC's mpox vaccine finder if your facility doesn't have mpox vaccine.
- Counsel patients who might be at risk exclusively from day-to-day household contact or patient care about risk reduction strategies other than vaccination.
- Continue to follow CDC's <u>current vaccine guidance</u> to prevent clade II MPXV infection, which
  continues to circulate in the United States, and will also help protect those individuals from clade I
  MPXV.

#### **Recommendations for Travelers**

When traveling to a country with ongoing human-to-human clade I MPXV transmission:

- Learn more about which activities may <u>increase your risk of exposure</u> when you travel to a country where <u>clade I MPXV is spreading</u>.
- No matter what your plans are when you visit, if you're traveling to a country that has an ongoing clade I MPXV outbreak, protect yourself and others from mpox, including by:
  - Avoiding close contact with people who are sick with <u>signs and symptoms of mpox</u>, including skin or genital lesions.
  - Avoiding contact with contaminated materials used by people who are sick, such as clothing, bedding, toothbrushes, sex toys, or materials used in healthcare settings.
- Talk to your provider about getting vaccinated with two doses of JYNNEOS if:
  - You are traveling to a country where clade I MPXV is spreading between people, AND
  - o You anticipate experiencing any of the following:
    - 1) Sex with a new partner
    - 2) Sex at a commercial sex venue, such as a sex club or bathhouse
    - 3) Sex in exchange for money, goods, drugs, or other trade
    - 4) Sex in association with a large public event, such as a rave, party, or festival
- Find a place to get vaccinated near you with CDC's mpox vaccine finder.
- Get your first mpox vaccine at least 6 weeks before traveling, if possible. After completing your
  first and second vaccine doses, which are given 4 weeks apart, it takes about 2 more weeks to
  get the best protection against mpox.
- Get two doses of JYNNEOS if you are <u>eligible to get mpox vaccine</u> because of the clade IIb outbreak that began in 2022 and you've never had mpox before.
- Know that getting two doses of JYNNEOS is expected to protect you from orthopoxviruses
  including both mpox clades. If you were already vaccinated with two doses, or if you previously
  recovered from mpox, you do not need any mpox vaccine doses now.
- Take steps to <u>protect yourself and others from mpox</u> even if you are fully vaccinated or have had mpox before.

#### For More Information

For Clinicians and Public Health Partners

- Clade I Mpox Outbreak Originating in Central Africa | Mpox | CDC
- Ongoing Clade II Mpox Global Outbreak | Mpox | CDC
- Information For Healthcare Professionals | Mpox | CDC
- Information for Health Departments | Mpox | CDC
- Sex & Travel | CDC Yellow Book 2024
- Guide to Taking a Sexual History | CDC
- Mpox Briefing for Providers Who Care for Pediatric Populations | HHS
- CDC Poxvirus and Rabies Branch: <a href="mailto:poxvirus@cdc.gov">poxvirus@cdc.gov</a> or, for emergencies, CDC's 24/7 Emergency Operations Center (EOC): 770-488-7100
- Health Department Contacts: <u>After Hours/Epi-on-Call Contact Lists Council of State and</u> Territorial Epidemiologists (cste.org)

#### For the Public

- Mpox in the United States and Around the World: Current Situation | Mpox | CDC
- About Mpox | Mpox | CDC
- Mpox Vaccination | Mpox | CDC
- Preventing | Mpox | CDC
- September 2024 Travel Health Notice: Clade I Mpox in Central and Eastern Africa
- General inquiries: CDC-INFO (1-800-232-4636)

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# **Categories of Health Alert Network messages**

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**Health Advisory** Provides important information about a public health incident. Provides updated information about a public health incident.