# Latest Global Update on the Monkeypox outbreak including implications for PLHIV

Global overview of current monkeypox epidemiology & response **3 June 2022** 



Dr Meg Doherty Director Global HIV, Hepatitis and STI Programmes, WHO HQ





# Monkeypox

- Monkeypox is a **viral zoonotic disease**
- Part of the *Orthopoxvirus* genus which includes variola virus (smallpox) and cowpox virus
- Endemic in 9+ African countries
- There are two main strains, one which typically has caused more severe illness (Congo clade) than the other (West African clade).
- Only the West African clade has been identified in the multi-country outbreak.
- The reservoir host is still unknown, although rodents incidental hosts and play a part in transmission, typically through hunting, preparation or consumption of meat (game)







## **Monkeypox in endemic countries**

- In 2022, cases have been reported by Cameroon, Central African Republic, the Democratic Republic of the Congo, Nigeria, and the Republic of the Congo.
- WHO receives reports through established surveillance (IDSR) in endemic countries in the African region.
- Laboratory strengthening in endemic countries is a priority to enable confirmation of suspected cases.
- Working closely with African countries, regional institutions, technical and financial partners, WHO is supporting efforts to bolster laboratory diagnosis, disease surveillance, readiness and response actions to prevent further infections.
- Providing expertise through technical guidance on testing, clinical care, preventing and controlling infections and educate the public about monkeypox and its risks, and how to collaborate with communities to support disease control efforts.





# Cases of monkeypox in non-endemic countries

#### 13 May to 1 June 2022

Region		Country	Confirmed Probable	
		Argentina	2	
	AMRO	Canada	26	
		Mexico	1	
		United States of America	18	
	EMRO	United Arab Emirates	4	
		Austria	1	
		Belgium	10	2
		Czechia	5	
		Denmark	2	
		Finland	1	
		France	17	
		Germany	44	
		Hungary	1	
		Ireland	4	
	ELIRO	Israel	2	
EURO	LUKU	Italy	14	
		Malta	1	
		Netherlands	26	
		Norway	1	
		Portugal	119	
		Slovenia	2	
		Spain	142	
		Sweden	4	
		Switzerland	4	
		The United Kingdom	190	
	WPRO	Australia	2	
	Total	26 countries	643	2

## Confirmed and probable cases of monkeypox in non-endemic countries (since 13 May 2022, as of 1 June 2022 16:00 CEST)



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement. Data Source: World Health Organization Map Production: WHO Health Emergencies Programme Map Date: 1 June 2022







# **Monkeypox in non-endemic countries**

- Since 13 May 2022, monkeypox has been reported to WHO from 26 Member States that are not endemic for monkeypox, across four WHO regions (as of 1 June)
- Public health outbreak investigations are ongoing: including extensive case finding and contact tracing, laboratory investigation, clinical management and case isolation
- The factors leading to this outbreak are not yet known. Initial cases have presented through primary care or sexual health services
- The outbreak of monkeypox in many non-endemic countries at once is highly unusual. Early epidemiology of initial cases notified to WHO by countries shows that cases have been largely, but not exclusively, been reported amongst men who have sex with men (MSM)
- Outreach activities are being put in place for the communities identifies to be at risk; at the present time includes outreach to social networks of MSM and their close contacts, health workers and laboratory workers.
- Wide geographic scope of many sporadic cases indicate the widespread human to human transmission is underway; virus may have been circulating unrecognized for several weeks/months.

Monkeypox



https://www.who.int/health-

topics/monkeypox





# Epidemic Curve by region and date of confirmation (public database)



Source: global.health linelist - official reporting only. where dates are not available, showing date of database entry





# Summary of the Situation in AFRO – 2022 Jan 1 - present

#### **Confirmed cases**

44 cases confirmed in five countries



Source: Update on the human monkeypox situation in the African Region 30 May 2022



## **Endemic / AFRO countries**

	Confirmed	Suspected	
Country	cases	cases	Deaths
Cameroon	3	25	2
Central African Republic	8	17	2
Republic of Congo	2	7	3
Democratic Republic of			
the Congo	10	1284	58
Liberia		4	0
Nigeria	21	66	1
Sierra Leone		2	0
Cumulative	44	1405	66



# **Results from Portugal**

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Mariana Pretz Duge<sup>1</sup> (§ 506 Ribeiro<sup>124</sup>, Jobó Veien Martins<sup>1</sup>, Pedro Casaca<sup>1</sup>, Pedro Proto Lette<sup>1</sup>, Margarida Tavares<sup>14,44</sup>, Kamal Mansinko<sup>13</sup>, Luis Miguel Duge<sup>13</sup>, Clandida Fernandes<sup>11</sup>, Rata Cordeno<sup>12</sup>, Maria José Borrego<sup>12</sup>, Ana Peterito<sup>12</sup>, Isabel Lopes de Carvalho<sup>12</sup>, Sofia Nilonco<sup>13</sup>, Vera Manageiro<sup>121,2</sup>, Corasdo Minetti<sup>121,2</sup>, Jorge Machado<sup>121</sup>, Joana M Haussi <sup>14</sup>, Roberto Croc<sup>14</sup>, Giantinano Spherit<sup>14</sup>, Ana Sofia Casal<sup>15</sup>, Diana Mendes<sup>16</sup>, Tiago Souto<sup>17</sup>, Sara Pocinho<sup>11</sup>, Teresa Fernandes<sup>15</sup>, <sup>14</sup>, Roberto Croc<sup>14</sup>, Giantinano Spherit<sup>14</sup>, Ana Sofia Casal<sup>15</sup>, Diana Mendes<sup>16</sup>, Tiago Souto<sup>17</sup>, Sara Pocinho<sup>11</sup>, Teresa Fernandes<sup>15</sup>, <sup>14</sup>, Roberto Croc<sup>14</sup>, Giantinano Spherit<sup>14</sup>, Ana Sofia Casal<sup>15</sup>, Diana Mendes<sup>16</sup>, Tiago Souto<sup>17</sup>, Sara Pocinho<sup>11</sup>, Teresa Fernandes<sup>15</sup>,

#### FIGURE

#### Confirmed monkeypox cases by date of symptom onset and exposure, Portugal, 29 April-23 May 2022 (n=41\*)



\* Only cases with data available for both date of symptom onset and exposure.

'Visited Venue 1/2' refers to confirmed cases who have been linked because of visiting the same venues. 'No information available' refers to no travel or contact data available. Travel to Spain, United Kingdom and Brazil was reported during the incubation period.



#### TABLE 2

Demographic and clinical characteristics of confirmed monkeypox cases, Portugal, 1–23 May 2022 (n=27)

Variables	Confirmed monkeypox cases	
vallables	n = 27	
Sex		
Male	27	
Female	0	
Age (years)		
20-29	7	
30-39	13	
40-49	3	
50-59	1	
Unknown	3	
Residence		
Lisbon and Tagus Valley	25	
North	1	
Algarve	1	
Symptoms <sup>a</sup>		
Exanthema	14	
Inguinal lymphadenopathy	14	
Fever	13	
Asthenia	7	
Headache	7	
Genital ulcers	6	
Genital vesicles	6	
Anal ulcers	5	
Myalgia	5	
Anal Vesicles	4	
Cervical lymphadenopathy	4	
Axillary lymphadenopathy	2	
HIV infection <sup>a</sup>		
Yes	14	
Exposures during the 21 days b	pefore onset of symptoms <sup>a</sup>	
Travel abroad	4	
Contact with animals	3	
Contact with people with similar symptoms	1	
Hospital admission		
Yes	3	

<sup>a</sup> Some cases did not report on certain symptoms or clinical features. Missing information for fever, asthenia, headache, cervical lymphadenopathy, axillary lymphadenopathy (n=1 case). Missing information for HIV infection (n=1 case). Missing information for myalgia (n=2 cases); for exanthema and genital ulcers (n=12 cases); for inguinal lymphadenopathy (n=13 cases); for anal ulcers and anal vesicles (n=14 cases); for contact with animals (n=4 cases); for contact with people with similar symptoms (n=17 cases).

# Modelling the impact of containment

Keep Calm and Carry On: Projected Case Burden and Duration of the 2022 Monkeypox

**Outbreak in Non-endemic Countries** 

Donal Bisanzio DVM PhD,<sup>1</sup> Richard Reithinger PhD<sup>1</sup>

<sup>1</sup> RTI International, Washington, DC, USA.

Duine and	Secondary cases (95% Cl)			
cases	No interventions	Contact tracing	Contact tracing and ring vaccination	
3 cases	18(0-124)	5(0-16)	4 (0-10)	
30 cases	118 (43-609)	40 (14-66)	25 (6-41)	
300 cases	402 (87-2092)	125 (45-479)	56 (4-259)	
	Outbre	ak duration (in weeks	) (95% CI)	
3 cases	23 (4-77)	9 (3-20)	7 (4-15)	
30 cases	37 (20-99)	14 (8-26)	10 (6-15)	
300 cases	37(19-121)	14(10-26)	9 (6-15)	



Figure 2. Epidemic curves and cumulative case count of simulated monkeypox outbreaks using the MPX-IBM. Panels A – C: Epidemic curves showing the number of primary and secondary monkeypox cases over time following seeding of 50 million in silico population with 3, 30, or 300 cases, comparing baseline scenario (Panel A) to intervention scenario 1 (Panel B) and intervention scenario 2 (Panel C). Panels D – F: Cumulative case count showing the number of primary and secondary monkeypox cases over time following seeding of 50 million in silico population with 3, 30, or 300 cases, comparing baseline scenario (Panel D) to intervention scenario 1 (Panel E) and



Broken lines: 95% confidence interval.

intervention scenario 2 (Panel F).

# **Timeline of WHO key actions**

7 May 2022, WHO was informed of a confirmed case of monkeypox with no secondary cases, followed by unrelated family cluster and cases among MSM. .









Indications for testing

#### Case Definitions

# WHO Advice

#### Protect yourself and others by:

- Isolating at home and talking ٠ to a health worker if you have symptoms
- Avoid skin-to-skin or face-toface contact, including sexual contact with anyone who has symptoms
- Clean hands, objects, and ٠ surfaces that have been touched regularly
- Wear a mask if you are in close contact with someone with symptoms
- Stigmatising people because ٠ of a disease is never ok.

#### Anyone can get or pass on monkeypox, regardless of their sexuality.







#### Public health advice for gay, bisexual and other men who have sex with men on the recent outbreak of monkeypox

An outbreak of a disease called monkeypox is It is important to note that the risk of monkeypox currently taking place in many countries that do is not limited to men who have sex with men. not typically have cases. This can be concerning, Anyone who has close contact with someone especially for people whose loved ones or who is infectious is at risk. However, given that community have been affected. Some cases have the virus is being identified in these communities. been identified through sexual health clinics in learning about monkeypox, how it spreads and communities of cay, bisexual and other men who how to protect yourself will help ensure that as few people as possible are affected and that the outbreak can be stopped.

have sex with men.

How to use this document: This document contains information on how monkeyp ox spreads, what to do if you think you have symptoms and how to protect yourself and others. It can be used by community leaders, influencers, health workers and people attending social events and parties to inform and engage communities of men who have sex with men.

#### Information on this outbreak is changing rapidly as we learn more. Check who.int for the most up to date information.

#### What you need to know:

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An outbreak of a disease called monkeypox is happening in some countries where the virus is not typically found. Some of these cases are being found in communities of gay, biseaual and other men who have sex with men. Transgender people and gender-diverse people may also be more vulnerable in the context of the current outbreak. Symptoms include:	You can catch monkeypox if you h physical contact with someone v showing symptoms. This includes touching and being i Monkeypox can spread through cl skin-to-skin contact during sav, in kissing, touching, oral and penetra someone who has symptoms. Avo close contact with anyone who ha
<ul> <li>Rash with blisters on face, hands, feet, eyes, mouth and/or genitals</li> <li>Fever</li> </ul>	Protect yourself and others by: - Isolating at home and talking to worker if you have symptoms
<ul> <li>Swollen lymph nodes</li> <li>Headaches</li> </ul>	<ul> <li>Avoid skin-to-skin or face-to-fac including sexual contact with an symptoms</li> </ul>
Muscle aches	<ul> <li>Clean hands, objects, and surface been touched regularly</li> </ul>

Stigmatising people because of a disease is NEVER ok. Anyone can get or pass on monkeypox, regardless of their sexuality.



#### Answers to common questions about monkeypox:

#### What is monkeypox?

Monkeypox is a disease caused by the monkeypox virus. It is commonly found in Central and West Africa and is occasionally identified in other countries. An outbreak is currently taking place in numerous countries that do not typically have cases. It is called monkeypox because it was first detected in monkeys.

#### What are the symptoms of monkeypox?

Symptoms of monkeypox typically include a fever, intense headache, muscle aches, back pain, low energy, swollen lymph nodes and a skin rash or lesions. The rash usually begins within one to three days of the start of a fever. Lesions can be flat or slightly raised, filled with clear or yellowish fluid, and can then crust, dry up and fall off. The number of lesions on one person can range from a few to several thousand. The rash tends to be concentrated on the face, palms of the hands and soles of the feet. It can also be found on the mouth, genitals, and eyes. The monkeypox rash can sometimes be mistaken for syphilis or herpes.

Symptoms typically last between two to four weeks and go away on their own without treatment. In some individuals, they can lead to medical complications and rarely death. People with underlying immune deficiencies may be at risk of more serious symptoms.

#### How does monkeypox spread?

People with monkeypox are infectious while they have symptoms (normally for between two and four weeks). You can catch monkeypox through close physical contact with someone who has symptoms. The rach, bodily fluids (such as fluid, pus or blood from skin lesions) and scabs are particularly infectious. Clothing, bedding, towels or objects like eating utensils/dishes that have been contaminated with the virus from contact with an infected person can also infect others.

Ulcers, lesions or sores in the mouth can also be infectious, meaning the virus can spread through saliva. People who closely interact with someone who is infectious, including health workers. household members and sexual partners are therefore at greater risk for infection.

#### What should I do if I think I have monkeypox?

If you think you have symptoms or have been a close contact of someone with monkeypox. contact your health worker for advice, testing and medical care. If possible, self-isolate and avoid close contact with others. Take the steps listed above to protect people close to you from becoming infected.

Monkeypox can spread through close skin-to-skin contact during sex, including kissing, touching, oral and penetrative sex with someone who has symptoms. Monkeypox rashes are sometimes found on genitals and in the mouth, which is likely to contribute to transmission during sexual contact. Mouth-to-skin contact could cause transmission where skin or mouth lesions are

It can also spread through other types of close

Reduce your risk by avoiding close contact,

including sexual contact, with people who have

How can I protect myself against

suspected or confirmed mankeypax.

If you do need to have close contact with

contact, not just sex.

monkeypox?

present. Avoid having close contact with anyone who has symptoms. is infectious is at risk. It is currently not known whether monkeypox can be spread through semen or vaginal fluids. People who have symptoms should avoid sexual contact with others and until we know more, they should continue using condoms after they recover.

this outbreak may be because of positive health seeking behaviour in this demographic.

Monkeypox rashes can resemble some sexually transmitted diseases, including herpes and syphilis, which may explain why these cases are being picked up at sexual health clinics. It is likely that as we learn more, we may identify cases in the broader community.

#### Where can I learn more about monkeypox?

Find answers to some of the most common someone who has symptoms, encourage them questions on monkeypox here or read up on to self-isolate or cover any skin lesion if they can WHO's factsheet on the disease. Check your local (e.g., with a light bandage or clothing over the official sources for the situation near you. rash). When you are physically close to each other,

programme

If you are having sex with multiple partners, seek regular screening for sexually transmitted infections and take PrEP where it is available. Seeking health advice regularly and guickly, if you have symptoms, will help you get treatment if needed and avoid you infecting anyone else.

> Remember - condoms may not prevent monkeypox but can prevent other sexually transmitted infections.

both of you should wear a medical mask. Avoid skin-to-skin contact whenever possible and use disposable gloves if you have any direct contact with lesions.

contact with the person who is infected, their

or surfaces they have touched, or with which

they may have come into contact, their rash or

Wash clothes, towels and bedsheets and eating

utensils with warm water and detergent. Wear

a mask when handling any clothes or bedding.

respiratory secretions (e.g., utensils, dishes).

clothes, bed sheets, towels and other items

Regularly clean your hands with soap and water or an alcohol-based hand rub, especially after

Can monkeypox spread through sex?

Clean and disinfect any contaminated surfaces and dispose of contaminated waste (e.g., dressings) appropriately. Some cases in this outbreak have been identified among communities of men who have sex with men. Why is this?

Monkeypox is spread from person to person through close contact. The risk of monkeypox is not limited to men who have sex with men. Anyone who has close contact with someone who

One reason we are currently hearing reports of cases of monkeypox from sexual health clinics in communities of men who have sex with men in

B

## Monkeypox outbreak

UPDATE AND ADVICE FOR HEALTH WORKERS



EPI•WiN



# Recognizing monkeypox

#### Signs and symptoms:

- Monkeypox is usually a self-limited disease and typically lasts 2 to 4 weeks
- It may be severe in children, pregnant women or persons with immune suppression due to other health conditions
- The incubation period is usually 6 to 13 days and can range from 5 to 21 days
- Typical symptoms include fever, headache, muscle aches, backache, lack of energy, swollen lymph nodes and a skin rash or lesions
- Swelling of the lymph nodes is a distinctive feature of monkeypox compared to other diseases that may initially appear similar (chickenpox, measles)
- The skin eruption begins within 1 to 3 days after fever onset. The rash often begins on the face, then spreads to other parts of the body
- The rash evolves from macules (lesions with a flat base) to papules (slightly raised firm lesions), vesicles (lesions filled with clear fluid), pustules (lesions filled with yellowish fluid), and crusts which dry up and fall off
- The case fatality ratio has been reported to around 3% in the African setting, with most deaths occurring in younger age groups



# Transmission and risk of infection

Monkeypox virus is transmitted from one person to another by close contact

- A person with monkeypox remains infectious while they have symptoms, normally for between 2 and 4 weeks
- Monkeypox virus is transmitted from one person to another by close contact with lesions, body fluids and contaminated materials such as bedding, clothing or eating utensils
- Ulcers, lesions or sores in the mouth can also be infectious, meaning the virus can spread through saliva
- People who closely interact with someone who is infectious, including health workers, household members and sexual partners are at greater risk of infection
- Transmission can also occur via the placenta from mother to fetus (which can lead to congenital monkeypox) or during close contact during and after birth



# Monkeypox protective measures

#### **Protect yourself and others**

 Avoid close contact with people who have suspected or confirmed monkeypox

#### When caring for a person with monkeypox:

- Encourage the person to cover any lesions with a light bandage or clothing if possible
- Wear a medical mask and ask the patient to wear one also
- Avoid skin-to-skin contact and use disposable gloves
- Clean hands regularly with soap and water or alcohol-based hand rub, especially after contact with the patient or contaminated materials such as bedding, clothing or eating utensils
- Wash clothes, towels, bedsheets and eating utensils with warm water and detergent
- Wear a mask when handling any clothes or bedding
- Clean and disinfect any contaminated surfaces and dispose of contaminated waste



# Managing the spread of monkeypox

Early detection, isolation and treatment of persons with monkeypox could control the spread of the disease

- Any person with suspected or confirmed monkeypox should be isolated until their lesions have crusted and the scabs have fallen off
- As soon as a suspected case is identified, contact tracing should be initiated
- Contacts should be monitored daily for the onset of symptoms for a period of 21 days
- Asymptomatic contacts should not donate blood, cells, tissue, organs, breast milk, or semen while they are under symptom surveillance
- Asymptomatic contacts can continue daily activities such as work and school (i.e., no quarantine is necessary)
- Health workers who have unprotected exposures (i.e., not wearing appropriate PPE) to patients with monkeypox or contaminated materials do not need to be excluded from work if asymptomatic, but should undergo active surveillance for symptoms, at least twice daily for 21 days following the exposure



# Diagnosing a monkeypox infection

If monkeypox is suspected, health workers should collect a lesion sample and transport it safely to a laboratory with appropriate capability

- Optimal diagnostic samples for monkeypox are from skin lesions, the roof or fluid from vesicles and pustules and dry crusts
- Lesion samples must be stored in a dry, sterile tube and kept cold
- Polymerase chain reaction (PCR) is the preferred laboratory test



# **Clinical care and therapeutics**

Clinical care should focus on alleviating symptoms, manage complications and prevent long-term consequences of monkeypox

#### **Clinical care**

- Skin care:
  - > Wash skin lesions with soap and water or povidone-iodine solution
  - > Treat secondary bacterial infections with topical or oral antibiotics as needed
- Eye care:
  - Prevent corneal scarring and visual impairment with vitamin A supplementation where needed, protective eye pads and ophthalmic antibiotics or antivirals as needed
- Mouth care:
  - Wash mouth with warm clean salted water
  - > Use oral analgesic medication to minimize mucosal pain from mouth sores and encourage food and fluid intake

#### **Therapeutics**

• **Tecovirimat** is an antiviral approved for the treatment of monkeypox by the European Medicines Agency (EMA) in January 2022. However, It is not yet widely available



# Vaccines against monkeypox

In the past, vaccination against smallpox was demonstrated to be about 85% effective in preventing monkeypox

- At the present time, the original smallpox vaccines are no longer available to the general public
- Research has yielded several safer vaccines for smallpox
- In 2019, one new vaccine was approved for the prevention of smallpox and monkeypox
- Availability of this two-dose vaccine remains limited
- Member States may want to consider vaccination of close contacts as post-exposure prophylaxis or pre-exposure vaccination of laboratory personnel and health workers



# **Monkeypox and HIV**

- Small Studies:
  - 3 / 9 deaths in Nigeria were in persons with untreated HIV
- Unpublished data:
  - HIV prevalence in Nigeria is 2%; among monkeypox patients the prevalence is 25%.
- No data yet to suggest that PLHIV may more easily acquire MPX due to immune deficiency and/or modes of transmission, but
- Some evidence that immunosuppression may have more severe and prolonged illness



 Clinical characterization of human monkeypox infections in the Democratic Republic of the Congo

 • Philip R. Pittman, James W. Martin, Placide Mbala Kingebeni, Jean-Jacques Muyembe Tamfum, Qingwen Wan, Mary G. Reynolds, Xiaofe Quinn, Sarah Norris, Michael B. Townsend, Parayampalli S. Satheshkumar, Bryony Sotiat Anna Honko, Fermando B. Büereña, Lawrence Korman, John W. Huggis

doi: https://doi.org/10.1101/2022.05.26.22273379

This article is a preprint and has not been peer-reviewed [what does this mean?]. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.

### Clinical Course and Outcome of Human Monkeypox in Nigeria @

Dimie Ogoina ☎, Michael Iroezindu, Hendris Izibewule James, Regina Oladokun, Adesola Yinka-Ogunleye, Paul Wakama, Bolaji Otike-odibi, Liman Muhammed Usman, Emmanuel Obazee, Olusola Aruna ... Show more

Clinical Infectious Diseases, Volume 71, Issue 8, 15 October 2020, Pages e210–e214, https://doi.org/10.1093/cid/ciaa143 Published: 13 February 2020 Article history ▼

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#### Abstract

In a retrospective review of hospital records of 40 human monkeypox cases from Nigeria, the majority developed fever and self-limiting vesiculopustular skin eruptions. Five deaths were reported. Compared to human immunodeficiency virus (HIV)–negative cases, HIV type 1–coinfected cases had more prolonged illness, larger lesions, and higher rates of both secondary bacterial skin infections and genital ulcers.

**Title: Determinants of Mortality Among Monkeypox Cases** 

**Authors**: Mahmood M. Dalhat<sup>1</sup>, Fatima Garba<sup>2</sup>, Adesola Ogunleye<sup>3</sup>, Afolabi M. Akinpelu<sup>3</sup>, Sola Aruna<sup>4</sup>, Chikwe Ihekweazu<sup>3</sup>



# **Monkeypox and HIV**



#### BHIVA rapid statement on monkeypox virus

Tuesday 31 May 2022 (update to original 17 May 2022 statement)

As of 31 May 2022, 190 cases of monkey pox virus (MPV) have been reported in the UK. Men who had sex with men (MSM) are disproportionately impacted and most cases report no travel to an endemic area. UKHSA are working closely with stakeholders across the NHS, including BASHH, BHIVA and Terrence Higgins Trust to ensure appropriate information is disseminated as broadly as possible and services are supported to provide appropriate screening and management.

The UK Health Security Agency (UKHSA) press release is here:

https://www.gov.uk/government/news/monkeypox-cases-confirmed-in-england-latest-updates

Latest information on case definitions, vaccination and principles of infection control are here: https://www.gov.uk/government/collections/monkeypox-guidance



#### Monkeypox in Europe EACS Statement

Friday, 20 May 2022

UK, Spain and Portugal are reporting cases of monkeypox amongst, but not exclusively, men who have sex with men (MSM). Isolated confirmed cases, or cases under investigation are being reported from Sweden, Italy, Belgium, USA and Canada. Many of these cases are unlinked to travel to endemic areas in West/Central Africa, and it is increasingly likely that there is local transmission amongst communities in these areas.

https://www.sanidad.gob.es/ciudadanos/enfLesiones/enfTransmisib les/sida/documentos/Monkeypox\_in\_Europe.pdf





06 June 2022

# **Monkeypox and HIV**

# Coinfection of syphilis and monkeypox in HIV positive man in Prague, Czech Republic

Author links open overlay panel<u>BeatriceBížováa</u> DanVeselý<sup>b</sup>MilanTrojánek<sup>c</sup>FilipRob<sup>a</sup> https://doi.org/10.1016/j.tmaid.2022.102368Get rights and content









# **Monkeypox Infodemic**

#### Monkeypox outbreak in non-endemic countries social listening deep-dive

#### 16 - 29 May 2022

Trigger warning: this analysis reports on issues which may be upsetting to people such as themes of mental h Disclaimer: this analysis reports on publicly shared online conversations that reflect the opinions of those ind



## **KEY FINDINGS**

Marble

#### SOCIAL LISTENING DEEP-DIVE

ASSOCIATION OF MONKEYPOX WITH THE LGBTQ+ COMMUNITY LEADING TO POLARIZING VIEWS ON STIGMA AND CONFUSION ABOUT TRANSMISSION

Stigma against the LGBTQ+ community emerged after news stories reported on outbreaks allegedly resulting from LGBTQ+ events. Some claimed that acknowledging that the monkeypox virus has spread mostly during MSM contact does not mean stigmatising the community. On the contrary, others claimed that health experts are allegedly voluntarily neglecting the spread among MSM to avoid the stigmatisation of the community.

Narratives speculating that monkeypox may be transmitted mostly during sexual contact emerged, resulting in widespread perception that it may be difficult to get infected in different transmission settings.

#### STIGMATIZATION AGAINST BLACK PEOPLE AND MIGRANTS FROM AFRICA

Online conversation regarding the prior and ongoing monkeypox outbreak in West-African countries resulted in speculation that African migrants recently arrived in Europe may be the cause of the recent spread among high-income countries. These allegations were further reinforced by media narratives mostly using pictures and videos of infected Black people to depict the virus, which were contrasted over the last few days of the reporting period.

Perceptions that monkeypox is emerging as a concern only when spreading across high-income countries were received with criticism, considering that it has been an ongoing health emergency in West Africa. Discussion of the importance of ensuring an equitable distribution of monkeypox vaccines across countries was key.

#### MULTIPLE CONSPIRACY THEORIES AND MISINFORMATION NARRATIVES AROUND THE ORIGIN OF THE OUTBREAK

Misinformation was highly present in the context of the origin of the virus. This included allegations that monkeypox was leaked from a laboratory, or that it is an alleged biological weapon created to replace COVID-19, or that has been intentionally spread amongst events mainly attended by MSM.

Misinformation that mRNA vaccines developed using chimpanzee adenovirus technology may lead to the development of monkeypox as a form of adverse event was also a widely spread narrative.

# **Monkeypox Risk Communication**





https://app.frame.io/reviews/c9590f16-6d9c-4145-aec0-9686a03cb481/b34be5c5-e4b5-4396-bc11-441320ec2e2b?version=d996d191-d440-4743-b8fd-41aa5cff60a6

https://app.frame.io/reviews/63042b12-f006-45b6-bb73-0128ca24344e/fc200540-8f5b-47c6-aebaba0ca037e8fd?version=0960680f-82ee-4f0a-956c-2cc69843bea0



HEALTH EMERGENCIES programme

## **WHO Key Priorities**

- 1. The goal is to stop the outbreak. WHO encourages countries to
  - Raise awareness
  - Detect cases: enhance clinical recognition to ensure early detection of cases and isolation of patients
  - Stop transmission : intensify surveillance, case-finding, cluster investigation and contact-tracing
  - Protect health workers and prevent transmission in health care settings (PPE, Infection prevention and control)

#### To do:

- adapt and strengthen surveillance, laboratory and testing capacities
- Use the **Case Reporting Form** (CRF) once published to better understand the clinical picture across regions
- If using therapeutics : collect standardized data or use clinical trial protocols to understand effectiveness
- Use, adapt and strengthen care pathways with appropriate IPC measures to prevent onwards transmission and access to symptomatic care elements such as good primary care, pain control and skin care.





# WHO Key Priorities continued...

**2. Ensure effective communication** to raise awareness and **avoid stigmatisation**. Continue to communicate what we know, what is being done to respond and continue to update and publish products as data becomes available.

**3. Risk based strategies:** Use public health interventions (testing, contact-tracing and isolation) and deploy countermeasures (therapeutics, vaccines, diagnostics and sequencing) based on **need, risk and benefit.** Apply measures **commensurate to the risk** (for instance regarding safe gatherings)

#### 4. Global Collaboration

- Continue sharing information, diagnostic resources and data.
- Use standard protocols to enable comparison of data between countries
- Develop global mechanisms to ensure access to countermeasures (vaccine, therapeutics, diagnostics) based on public health need
- Accelerate research for monkeypox
- 5. Strengthen One Health approach





# WHO Critical unknowns affecting the response

- Transmission patterns and factors that facilitate spillover and human-to-human spread
  - Human-to-human transmission
  - Zoonotic transmission, reverse zoonotic transmission and animal source/reservoir(s)
  - Infectious period, symptomatic/asymptomatic spread
  - Amplification events
- Extent of unrecognized infection in endemic and non-endemic countries
- Molecular epidemiology, genetic sequences needed
- Clinical characteristics, severity of disease and risk factors for severe disease
- Immunity from vaccination; immunity from infection
- Interventions and impact of interventions
  - To prevent severe disease/death
  - To protect at risk groups and prevent onward spread





- Health authorities at all levels, clinicians, health and social sector partners, and academic, research and commercial partners to **respond quickly** to stop the multi-country outbreak of monkeypox.
- Rapid action must be taken before the virus can be allowed to establish itself as a human pathogen with efficient person-to-person transmission in both **endemic and non-endemic contexts**.
- Lessons learned from the eradication of smallpox and from the management of other emerging zoonotic diseases must be urgently considered in the light of these rapidly evolving events.
- Advance research to better inform prevention, detection and response actions for monkeypox globally

https://www.who.int/health-topics/monkeypox





# **Additional resources**



OpenWHO.org

intermediate

Épidémiologie de la variole du singe, préparation et réponse | OpenWHO



Toolbox

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#### Monkeypox outbreak toolbox

https://www.who.int/emergencies/outbreak-

toolklt/disease-outbreaktoplboxes/monkeypox-outbreak-toolbox Monkeypox



Monkeypox: public health advice for gay, bisexual and other men who have sex with men

https://www.who.int/publications/m/item/monke ypox-public-health-advice-for the Twho-have-sex-with-men EMERGENCIES programme

