

# TOPIC

mpox outbreak and ongoing response efforts – a focus on the NITAGs in the African region

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28 August 2024



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**NISH**   
National Immunization Technical  
Advisory Group (NITAG) **Support Hub**

# Library guide on Mpox

**Library Guides OR LibGuides** are a content management and information sharing system

LibGuides are user-friendly, efficient electronic resources that can meet the information needs of our users, in our case NITAG members online.

# Databases used

## Pubmed

## EbscoHost

Academic Search Premier, Africa-Wide Information, CINAHL, Health Source - Consumer Edition, Health Source - Nursing/Academic Edition, MEDLINE, APA PsycArticles, APA PsycInfo

## Google Scholar

# Library guide on Mpox

## MeSH Terms and keywords used

### PICO

#### Population : all African countries

Africa [MeSH]

OR

Africa OR African OR Algeria OR Angola OR Benin OR Botswana OR "Burkina Faso" OR Burundi OR "Cabo Verde" OR Cameroon OR Cameroun OR "Canary Islands" OR "Cape Verde" OR "Central African Republic" OR Chad OR Comoros OR Congo OR "Cote d'Ivoire" OR "Democratic Republic of Congo" OR Djibouti OR Egypt OR Eritrea OR eSwatini OR Ethiopia OR Gabon OR Gambia OR Ghana OR Guinea OR Guinea- Bissau OR "Ivory Coast" OR Jamahiriya OR Kenya OR Lesotho OR Liberia OR Libya OR Madagascar OR Malawi OR Mali OR Mauritania OR Mauritius OR Mayotte OR Morocco OR Mozambique OR Namibia OR Niger OR Nigeria OR Principe OR Reunion OR Rwanda OR "Saint Helena" OR "Sao Tome" OR Senegal OR Seychelles OR "Sierra Leone" OR Somalia OR "St Helena" OR Sudan OR Swaziland OR Tanzania OR Togo OR Tunisia OR Uganda OR "Western Sahara" OR Zaire OR Zambia OR Zimbabwe

# Library guide on Mpox

## MeSH Terms and keywords used

### PICO

**Intervention** :Monkeypox"[MeSH Terms] OR "Monkeypox virus"[MeSH Terms] OR "Monkeypox"[Title/Abstract] OR "monkey pox"[Title/Abstract] OR "MPOX"[Title/Abstract] OR "MPX"[Title/Abstract] OR "MPXV"[Title/Abstract] OR "hMPXV"[Title/Abstract] OR ("Orthopoxvirus"[MeSH Terms] OR "Orthopoxvirus"[Title/Abstract] OR "Poxviridae Infections"[MeSH Terms] OR "Poxviridae"[Title/Abstract] OR "poxvirus\*"[Title/Abstract] OR "Smallpox"[Title/Abstract] OR "Smallpox"[MeSH Terms] OR "Variola virus"[MeSH Terms] OR "Variola virus"[Title/Abstract] OR "Smallpox Vaccine"[MeSH Terms] OR "smallpox vaccine LC16m8"[Supplementary Concept])

**Comparison** : no comparison

**Outcome**: safety OR efficacy OR treatment OR impact OR “reduction in disease” OR morbidity OR mortality

# Library guide on Mpox

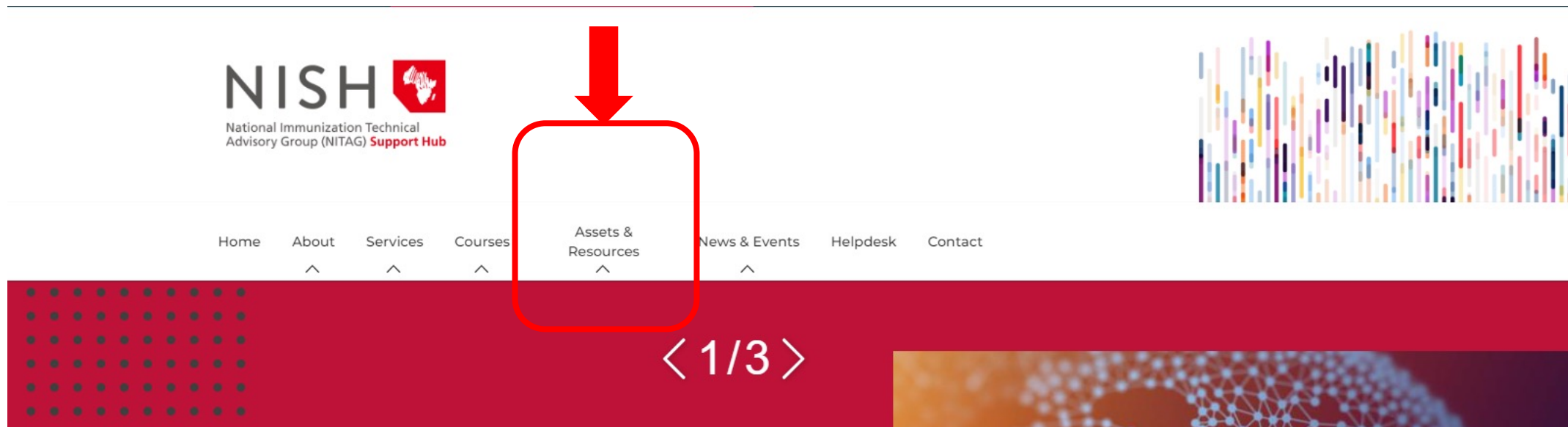
Result lists showed that there is very little research done until now:

1. Only a few African countries are affected
2. Most papers are from the WHO or SAGE
3. Under the term “Mpox vaccines” no results, only under “Mpox” as one keyword

**We urgently need research information from all of you and your institutions, so that we can learn from each other how to confront this dreaded disease. We plead with you to share and distribute experiences , knowledge ad practices that you encounter along this challenge**

# Where to find it?

NISH website: [www.health.uct.ac.za/nish](http://www.health.uct.ac.za/nish)



# This is where you find it

Assets & Resources

- Data visualisations: COVID-19 Dashboard in African countries
- LibGuides: General Introduction
  - LibGuide: COVID-19 Vaccine Confidence in Africa
  - LibGuide: Malaria in Africa
  - LibGuide: Human Papillomavirus (HPV) in Africa
  - LibGuide: Hepatitis A & Hepatitis B
  - LibGuide: Interventions to promote routine vaccine coverage
  - LibGuide: Mpox



# This is what it looks like

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This Library Guide is a collection of useful documents & evidence on the efficacy, effectiveness and impact of Mpox vaccines to support NITAG members and other policy makers throughout Africa with making evidence-based recommendations.

- Home
- PICO used for search terms
- WHO NITAG Resource Centre
- Media News on the Mpox outbreak
- Rapid Review on Mpox
- Webinars on Mpox
- Training resources for Mpox
- Our world in data
- Mpox: global
- Democratic Republic of Congo (DRC)
- Cameroon
- Nigeria
- Central African Republic
- Sierra Leone
- WHO and grey literature
- Elsevier Mpox information centre


### Introduction

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### Total Mpox cases

# Tabs

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Enter Search Words  Search

This Library Guide is a collection of useful documents & evidence on the efficacy, effectiveness and impact of MPox vaccines to support NITAG members and other policy makers throughout Africa with making evidence-based recommendations.

- Home
- PICO used for search terms
- WHO NITAG Resource Centre
- Media News on the Mpox outbreak
- Rapid Review on Mpox
- Webinars on Mpox
- Training resources for Mpox
- Our world in data
- Mpox: global
- Democratic Republic of Congo (DRC)
- Cameroon
- Nigeria
- Central African Republic
- Sierra Leone
- WHO and grey literature
- Elsevier Mpox information centre

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This Library Guide is a collection of useful documents & evidence on the efficacy, effectiveness and impact of MPox vaccines to support NITAG members and other policy makers throughout Africa with making evidence-based recommendations.

#### Total Mpox cases

# Tabs

Home / Publications / Overview / Smallpox and mpox (orthopoxviruses): WHO position paper, August 2024

## Smallpox and mpox (orthopoxviruses): WHO position paper, August 2024

WER: No 27, 2024, 99, 351–362

23 August 2024 | Journal article

### Overview

This position paper is concerned with vaccines and vaccination against mpox and smallpox. Since the publication of the 2014 meeting report on smallpox vaccines, and the 2022 interim guidance on mpox vaccines and immunization, there have been reported changes in the epidemiology of mpox, particularly in endemic settings, and new evidence has emerged regarding effectiveness, safety and public health benefits of vaccines. This document replaces the 2022 interim guidance on mpox vaccination and the 2014 meeting report on smallpox vaccines and smallpox vaccination. It contains off-label recommendations.

**WHO TEAM**  
Strategic Advisory Group of Experts on Immunization

**EDITORS**  
World Health Organization

**NUMBER OF PAGES**  
28

**REFERENCE NUMBERS**  
ISBN: 978 92 4 009398 0  
WHO REFERENCE NUMBER:



#### References to WHO Position Paper 1

Fenner, F., Henderson, D. A., Arita, I., Ježek, Z., & Ladnyi, I. D. (1987). Smallpox and its eradication. Geneva: WHO, 210.[bullwho00076-0026.pdf \(nih.gov\)](https://www.bullwho.org/volumes/210/bullwho00076-0026.pdf)

3, Monkeypox: experts give virus variants new names (News release, 12 August 2022). Geneva: World Health Organization (<https://www.who.int/news/item/12-08-2022-monkeypox-experts-give-virus-variants-new-names>)

#### References to WHO Position Paper 2

Dalton, A. F. (2023). Estimated effectiveness of JYNNEOS vaccine in preventing mpox: a multijurisdictional case-control study—United States, August 19, 2022–March 31, 2023. *MMWR. Morbidity and mortality weekly report*, 72.[https://www.cdc.gov/mmwr/volumes/72/wr/mm7220a3.htm?trk=public\\_post\\_comment-text](https://www.cdc.gov/mmwr/volumes/72/wr/mm7220a3.htm?trk=public_post_comment-text)

# WHO NITAG

# Resource Centre

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Home | PICO used for search terms | WHO NITAG Resource Centre | Media News on the Mpox outbreak | Rapid Review on Mpox | Webinars on Mpox

Training resources for Mpox | Our world in data | Mpox: global | Democratic Republic of Congo (DRC) | Cameroon | Nigeria | Central African Republic | Sierra Leone

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2022 - 2024 Mpox outbreak: global trends

[https://worldhealthorg.shinyapps.io/mpx\\_global/all/](https://worldhealthorg.shinyapps.io/mpx_global/all/)

worldhealthorg.shinyapps.io/mpx\_global/

## 2022-24 Mpox (Monkeypox) Outbreak: Global Trends

World Health Organization  
Produced on 02 August 2024

### Key Figures

June 2024

934 Confirmed cases	4 Deaths	26 Countries reporting cases
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Overall

99 176 Confirmed cases	208 Deaths	116 Countries reporting cases
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NITAG Resource Centre

National Advisory Committee on Immunization (NACI). (2024) NACI Rapid Response: Interim guidance on the use of Imvamune in the context of monkeypox outbreaks in Canada Ottawa (ON): Government of Canada; Government of Canada; 2024 Nov 06. <https://www.canada.ca/en/health-canada/files/assets/pdf/nci-rapid-response-interim-guidance-on-the-use-of-ivmavune-in-the-context-of-monkeypox-outbreaks-in-canada.pdf>

# Media News on Mpox outbreak

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Home	PICO used for search terms	WHO NITAG Resource Centre	Media News on the Mpox outbreak	Rapid Review on Mpox	Webinars on Mpox		
Training resources for Mpox	Our world in data	Mpox: global	Democratic Republic of Congo (DRC)	Cameroon	Nigeria	Central African Republic	Sierra Leone
WHO and grey literature	Elsevier Mpox information centre						

### News

World Health Organization, 2024. WHO invites mpox vaccine manufacturers to submit dossiers for emergency evaluation. <https://www.who.int/news/item/09-08-2024-who-invites-mpox-vaccine-manufacturers-to-submit-dossiers-for-emergency-evaluations>

Marchi, S., Piccini, G., Cantaloni, P., Guerrini, N., Zannella, R., Coluccio, R., Benincasa, L., Solfanelli, N., Remarque, E. J., Viviani, S., Kistner, O., Temperton, N., Montomoli, E., Manenti, A., & Trombetta, C. M. (2024). Evaluation of monkeypox- and vaccinia-virus neutralizing antibodies before and after smallpox vaccination: A sero-epidemiological study. *Journal of medical virology*, 96(6), <https://doi.org/10.1002/jmv.29728>

Joaloso, Simi. 2024. **Mpox declared public health emergency in Africa.** *BBC*. <https://www.bbc.com/news/articles/c0e84jw9qdjo>

Preiser, Wolfgang; Baxter, Cheryl; Nachega, Jean (2024) **Mpox outbreak in Africa was neglected – it could now turn into the next global pandemic.** <https://theconversation.com/mpox-outbreak-in-africa-was-neglected-it-could-now-turn-into-the-next-global-pandemic->

Satija, Bhanvi et al. (2024). **WHO declares mpox a global public health emergency for second time in two years.** *Daily Maverick*. <https://www.dailymaverick.co.za/article/2024-08-15-who-declares-mpox-a-global-public-health-emergency-for-second-time-in-two-years/?>

Walter, Cheryl (2024). **Mpox cases are soaring in Africa – what must be done to prevent a global pandemic.** *The Conversation*. <https://theconversation.com/mpox-cases-are-soaring-in-africa-what-must-be-done-to-prevent-a-global-pandemic-236609>

Ndebele, Lenin (2024). **WHO declares mpox's surge in Africa a global health emergency.** *News24*. <https://www.dailymaverick.co.za/article/2024-08-15-who-declares-mpox-a-global-public-health-emergency-for-second-time-in-two-years/>

Africa CDC (2024). **Africa CDC Declares Mpox A Public Health Emergency of Continental Security, Mobilizing Resources Across the Continent.** <https://africacdc.org/news-item/africa-cdc-declares-mpox-a-public-health-emergency-of-continental-security-mobilizing-resources-across-the-continent/>

Walter, Cheryl (2024). **Mpox: what to watch out for, treatment and what to worry about.** *The Conversation*. <https://theconversation.com/mpox-what-to-watch-out-for-treatment-and-what-to-worry-about-233466>

O'Regan, Victoria (2024). **Health department calls for vigilance as mpox outbreak cases rise to 24, death toll at three.** *Daily Maverick*. <https://www.dailymaverick.co.za/article/2024-08-04-health-department-calls-for-vigilance-as-mpox-outbreak-cases-rise-to-24-death-toll-at-three/>

# Webinars on Mpox



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- Home
- PICO used for search terms
- WHO NITAG Resource Centre
- Media News on the Mpox outbreak
- Rapid Review on Mpox
- Webinars on Mpox
- Training resources for Mpox
- Our world in data
- Mpox: global
- Democratic Republic of Congo (DRC)
- Cameroon
- Nigeria
- Central African Republic
- Sierra Leone
- WHO and grey literature
- Elsevier Mpox information centre

Webinar on Mpox outbreak

Use this link:

<https://acrobat.adobe.com/id/urn:aaid:sc:EU:37e77a3d-4abb-4d6c-ba53-26d954822b>



**NITAG Support Hub (NISH)**  
Vaccinology webinar series for NITAGs in Africa

Dear Colleague,

See below details of a webinar the NITAG Support Hub (NISH) of the University of Cape Town (UCT) in collaboration with World Health Organization (WHO), Task Force for Global Health (TFGH), and US/CDC is holding to discuss topical issues on Evidence-Informed Decision-Making (EIDM) for vaccines and immunization on mpox outbreak. This webinar aims to:

- Share with NITAGs and immunization stakeholders on the current mpox outbreak, preparedness and response mechanism in the African Region
- Share recent SAGE recommendations on mpox vaccines
- Identify tailored support areas for NITAGs working or intending to issue recommendations on mpox vaccination
- Provide a forum for NITAGs to share experiences and lessons learnt on mpox vaccines and preventive strategies

Topic: mpox outbreak and ongoing response efforts - a focus on the NITAGs in the African region

Date: 28 August 2024

Webinars on Mpox

Greetings from the WHO AFRO!

Thank you for attending our webinar on *Preparing for mpox Vaccine Use*, we hope that you found the discussion insightful and valuable.

**Please follow the link to access the webinar presentations and recording:**

**Recording:** <https://youtu.be/ddv66LxjXNY>

**Presentation:** <https://we.tl/t-2QUvJ66RtH>

Also, consider subscribing to the WHO EPR YouTube channel to access our webinar series, which discussed various critical aspects of *mpox preparedness and response*, including:

- Standing recommendations on pox issued by the DG under the IHR

# Training resources on Mpox

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## NISH (NITAG Support Hub) 7: Mpox : Training resources for Mpox

This Library Guide is a collection of useful documents & evidence on the efficacy, effectiveness and impact of MPox vaccines to support NITAG members and other policy makers throughout Africa with making evidence-based recommendations.

- Home
- PICO used for search terms
- WHO NITAG Resource Centre
- Media News on the Mpox outbreak
- Rapid Review on Mpox
- Webinars on Mpox
- Training resources for Mpox**
- Our world in data
- Mpox: global
- Democratic Republic of Congo (DRC)
- Cameroon
- Nigeria
- Central African Republic
- Sierra Leone
- WHO and grey literature
- Elsevier Mpox information centre

### Training resources for Mpox



OpenWHO.org

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Offered by OpenWHO



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Documents



Announcements

Mpox: Introductory course for African outbreak contexts

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# Our World in Data

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## NISH (NITAG Support Hub) 7: Mpox : Our world in data

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Home	PICO used for search terms	WHO NITAG Resource Centre	Media News on the Mpox outbreak	Rapid Review on Mpox	Webinars on Mpox		
Training resources for Mpox	Our world in data	Mpox: global	Democratic Republic of Congo (DRC)	Cameroon	Nigeria	Central African Republic	Sierra Leone
WHO and grey literature	Elsevier Mpox information centre						

Our world in data

<https://ourworldindata.org/mpox>

Our World in Data

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# Mpox



# Mpox Global

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This Library Guide is a collection of useful documents & evidence on the efficacy, effectiveness and impact of MPox vaccines to support NITAG members and other policy makers throughout Africa with making evidence-based recommendations.

Enter Search Words  Search

Home | PICO used for search terms | WHO NITAG Resource Centre | Media News on the Mpox outbreak | Rapid Review on Mpox | Webinars on Mpox

Training resources for Mpox | Our world in data | **Mpox: global** | Democratic Republic of Congo (DRC) | Cameroon | Nigeria | Central African Republic | Sierra Leone

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### Introduction

These papers include general research about Mpox, such as Mpox vaccines, their effectiveness, their impact, safety, reduction in disease, morbidity and mortality, immunogenicity.

3 databases were used :

Google Scholar, PubMed, EbscoHost (Academic Search Premier, Africa-Wide Information, CINAHL, Health Source - Consumer Edition, Health Source - Nursing/Academic Edition, MEDLINE, APA PsycArticles, APA PsycInfo)

### Google Scholar (global)

Acharya, A., Kumar, N., Singh, K., & Byrareddy, S. N. (2024). Mpox in MSM: Tackling Stigma, Minimizing Risk Factors, Exploring Pathogenesis, and Treatment Approaches. *Biomedical Journal*, 100746.

Adetifa, I., Muyembe, J.-J., Bausch, D. G., & Heymann, D. L. (2023). Mpox neglect and the smallpox niche: a problem for Africa, a problem for the world. *The Lancet*, 401(10390), 1822-1824.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10154003/pdf/main.pdf>

Adnyana, I. M. D. M., Eljatin, D. S., Maulana, S., Ibrahim, K., Umar, T. P., Armini, L. N., & da Cruz, Z. V. (2024). Mpox, HIV Infection, and Genital Skin Disease: Triple Burden, Threats and Challenges from an Epidemiological Perspective. *SVĀSTHYA: Trends in General Medicine and Public Health*, 1(1), e1-e1.

Alcamí, A. (2023). Pathogenesis of the circulating mpox virus and its adaptation to humans. *Proceedings of the National Academy of Sciences*, 120(13), e2301662120.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10068839/pdf/pnas.202301662.pdf>

# Mpox in African Counties

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This Library Guide is a collection of useful documents & evidence on the efficacy, effectiveness and impact of Mpox vaccines to support NITAG members and other policy makers throughout Africa with making evidence-based recommendations.

Home	PICO used for search terms	WHO NITAG Resource Centre	Media News on the Mpox outbreak	Rapid Review on Mpox	Webinars on Mpox		
Training resources for Mpox	Our world in data	Mpox: global	Democratic Republic of Congo (DRC)	Cameroon	Nigeria	Central African Republic	Sierra Leone
WHO and grey literature	Elsevier Mpox information centre						

Congo

Schwartz, D. A. (2024). High Rates of Miscarriage and Stillbirth among Pregnant Women with Clade I Mpox (Monkeypox) Are Confirmed during 2023–2024 DR Congo Outbreak in South Kivu Province. *Viruses*, 16(7), 1123. <https://doi.org/10.3390/v16071123>

Savinkina, A., Kindrachuk, J., Bogoch, I., Rimoin, A. W., Hoff, N. A., Shaw, S. Y., Mbala, P., & Gonsalves, G. (2024). Modeling Vaccination Approaches for Mpox Containment and Mitigation in the Democratic Republic of the Congo. Available at SSRN 4759169.

Pittman, P. R., Martin, J. W., Kingebeni, P. M., Tamfum, J. J. M., Mwema, G., Wan, Q., ... & Kole Human Mpox Infection Study Group. (2023). Clinical characterization and placental pathology of mpox infection in hospitalized patients in the Democratic Republic of the Congo. *PLoS neglected tropical diseases*, 17(4), e0010384. <https://doi.org/10.1371/journal.pntd.0010384>

Masirika, L., Udahemuka, J. C., Ndishimye, P., Sganzerla Martinez, G., Kelvin, P., Malyamungu Bubala, N., Bilembo Kitwanda, S., Kumbana Mweshi, F., Mutimbwa Mambo, L., & B. Oude Munnink, B. (2024). Epidemiology, clinical characteristics, and transmission patterns of a novel Mpox (Monkeypox) outbreak in eastern Democratic Republic of the Congo (DRC): an observational, cross-sectional cohort study. *medRxiv*, 2024.2003.2005.24303395.

Parker, E., Omah, I., Varilly, P., Magee, A., Ayinla, A. O., Sijuwola, A. E., ... & Happi, C. (2024). Genomic epidemiology uncovers the timing and origin of the emergence of mpox in humans. *medRxiv*, 2024-06. Peter, O. J., Babasola, O., Ojo, M., & Omame, A. (2024). Modelling the transmission of Mpox with case study in Nigeria and Democratic Republic of the Congo (DRC). *Computational Methods for Differential Equations*.

Charniga, K., McCollum, A. M., Hughes, C. M., Monroe, B., Kabamba, J., Lushima, R. S., Likafi, T., Nguete, B., Pukuta, E., & Muyamuna, E. (2024). Updating reproduction number estimates for mpox in the Democratic Republic of Congo using surveillance data. *The American journal of tropical medicine and hygiene*, 110(3), 561. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10919191/pdf/ajtmh.23-0215.pdf>

# WHO and grey literature sources

Home PICO used for search terms WHO NITAG Resource Centre Media News on the Mpox outbreak Rapid Review on Mpox Webinars on Mpox

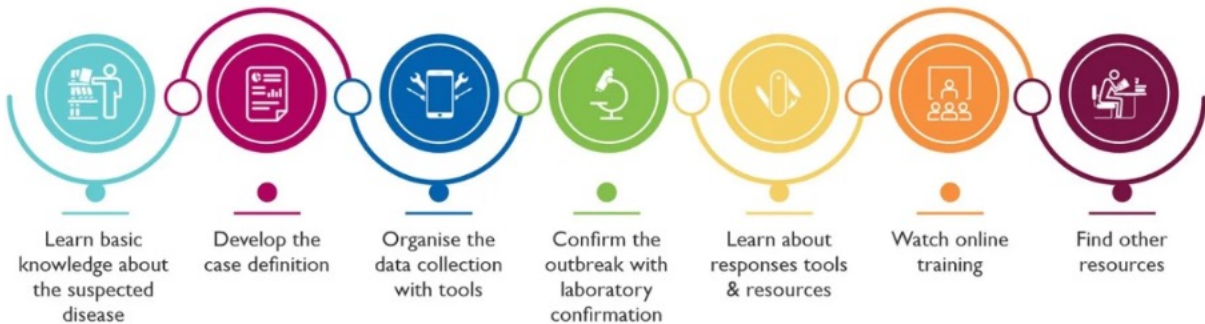
Training resources for Mpox Our world in data Mpox: global Democratic Republic of Congo (DRC) Cameroon Nigeria Central African Republic Sierra Leone

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Toolkits

WHO. 2024. Mpox outbreak toolbox. <https://www.who.int/emergencies/outbreak-toolkit/disease-outbreak-toolboxes/mpox-outbreak-toolbox>

Home Disease Outbreak Toolboxes Data Collection Standards About



Learn basic knowledge about the suspected disease

Develop the case definition

Organise the data collection with tools

Confirm the outbreak with laboratory confirmation

Learn about responses tools & resources

Watch online training

Find other resources

## Grey literature

WHO. 2024. WHO Director-General declares Mpox outbreak a public health emergency of international concern.

WHO Mpox (monkeypox) outbreak; 2022. Available from: <https://www.who.int/emergencies/situations/monkeypox-oubreak-2022>.

WHO recommends new name for monkeypox disease. Available from: <https://www.who.int/news/item/28-11-2022-who-recommends-new-name-for-monkeypox-disease>.

World Health Organization. (2023). *Responding to the global mpox outbreak: ethics issues and considerations: a policy brief, 19 July 2023* (No. WHO/Mpox/Outbreak\_response/Ethics/2023.1). World Health Organization. <https://iris.who.int/bitstream/handle/10665/371405/WHO-Mpox-Outbreak-response-Ethics-2023.1-eng.pdf?sequence=1>

World Health Organization. (2024). *Regional Mpox Bulletin: 11 August 2024*. Regional Mpox Bulletin: 11 August 2024

World Health Organization (2024). *Strategic framework for enhancing prevention and control of mpox 2024-2027*. Strategic framework for enhancing prevention and control of mpox 2024-2027

# Elsevier Mpox Information Centre

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- Home
- PICO used for search terms
- WHO NITAG Resource Centre
- Media News on the Mpox outbreak
- Rapid Review on Mpox
- Webinars on Mpox
- Training resources for Mpox
- Our world in data
- Mpox: global
- Democratic Republic of Congo (DRC)
- Cameroon
- Nigeria
- Central African Republic
- Sierra Leone
- WHO and grey literature
- Elsevier Mpox information centre

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[Mpox Explained](#)

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<https://elsevier.health/en-US/monkeypox/home>

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