



# A call to action for earlier global responses to neglected tropical and ancient diseases such as mpox –

Perspective from Nigeria and beyond

#### Dimie Ogoina

MBBS, FWACP, FMCP, FACP, FIDSA

Infectious diseases physician & Prof of Medicine and Infectious Diseases

Niger Delta University/Niger Delta University Teaching Hospital, Bayelsa, Nigeria

**President, Nigerian Infectious Diseases Society** 





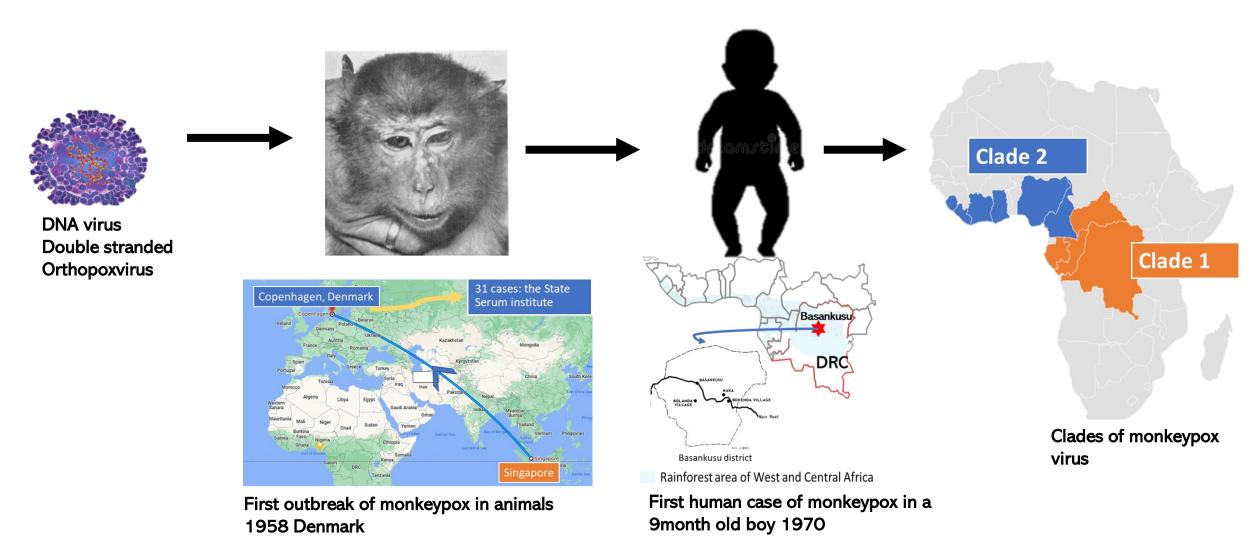
### Disclosure of interest

• Chair, WHO Emergency IHR Committee on Mpox Upsurge 2024





## The monkeypox virus







#### Mpox-Tropical rainforest disease of West and Central Africa (1970-1987)

#### Ecological niche

Restricted to tropical rainforest areas

#### Population group

 Rural settlements with population <5,000</li>

#### Demographic

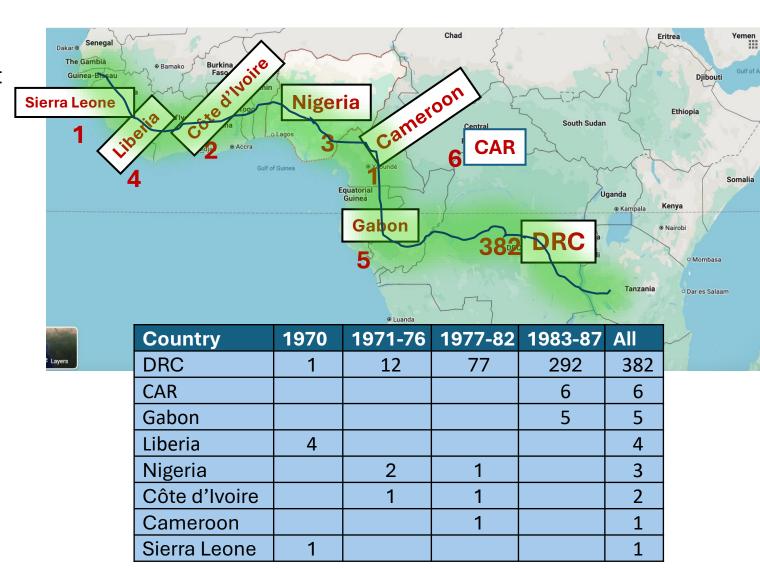
- Children<15 years most affected</li>
- M≃F

#### Exposure type

- 80% zoonotic origin;
- 20% h2h household transmissions (not sustained)

#### Secondary attack rate

- 0.2%- smallpox vaccinated
- 7.9% smallpox unvaccinated







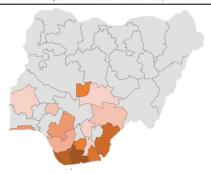
## Re-emergence of Mpox in Nigeria (2017-2019)

#### THE LANCET

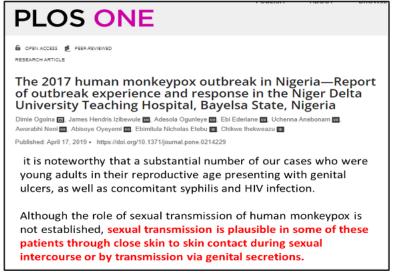
Infectious Diseases Lancet Infect Dis- 2019 Aug;19(8):872-879

Outbreak of human monkeypox in Nigeria in 2017-18: a clinical and epidemiological report

Adesola Yinka-Ogunleye, Olusola Aruna, Mahmood Dalhat, Dimie Ogoina, Andrea McCollum, Yahyah Disu, Ibrahim Mamadu, Afolabi Akinpelu, Adama Ahmad, Joel Burga, Adolphe Ndoreraho, Edouard Nkunzimana, Lamin Manneh, Amina Mohammed, Olawunmi Adeoye, Daniel Tom-Aba, Bernard Silenou, Oladipupo Ipadeola, Muhammad Saleh, Ayodele Adeyemo, Ifeoma Nwadiutor, Neni Aworabhi, Patience Uke, Doris John, Paul Wakama, Mary Reynolds, Matthew R Mauldin, Jeffrey Doty, Kimberly Wilkins, Joy Musa, Asheena Khalakdina, Adebayo Adedeji, Nwando Mba, Olubunmi Ojo, Gerard Krause\*, Chikwe ihekweazu\*, for the CDC Monkeypox Outbreak Teamf

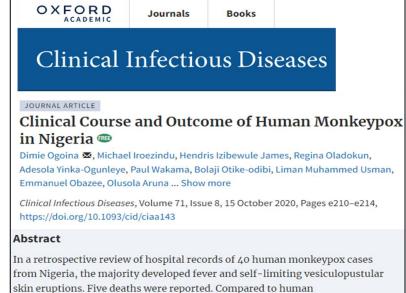


- Mpox among young urban dwellers
- Mpox in close settings
- Geographic dispersed outbreak





- Mpox associated with genital ulcers, syphilis and HIV; mostly males
- Mpox associated with sexual contact



 Mpox associated with more severe diseases among PLHIV

immunodeficiency virus (HIV)—negative cases, HIV type 1—coinfected cases had more prolonged illness, larger lesions, and higher rates of both secondary

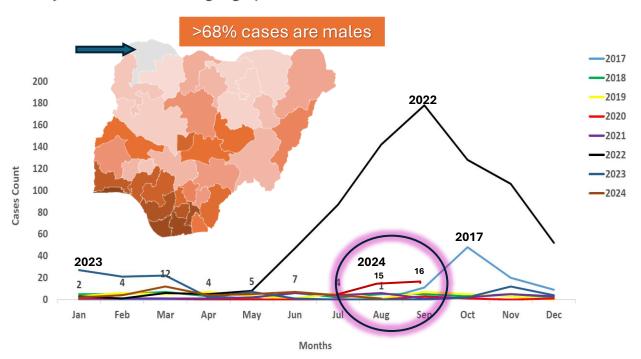
bacterial skin infections and genital ulcers.



## Trend of mpox in Nigeria (2017-2024)



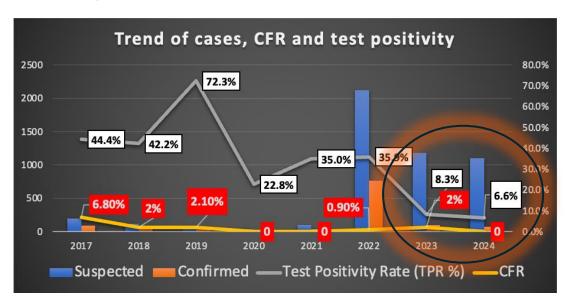
Monthly trend of cases and geographical distribution of confirmed cases since 2017

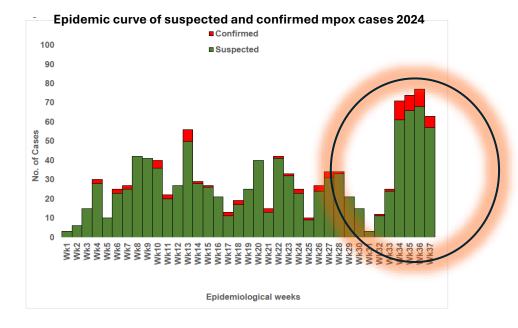


Distribution of cases by age group and year

Age Group	2017	2018	2019	2020	2021	2022	2023	2024	Total
0-10 yrs	7	5	1	0	1	125	21	22	182
11-20 yrs	12	4	1	0	4	123	8	8	160
21-30 yrs	34	13	13	4	10	187	24	20	305
31-40 yrs	26	17	22	4	13	205	21	10	318
41-50 yrs	9	10	9	0	5	89	17	9	148
> 50 yrs	0	0	1	0	1	33	7	3	45
Total	88	49	47	8	34	762	98	72	1158

Source: NCDC

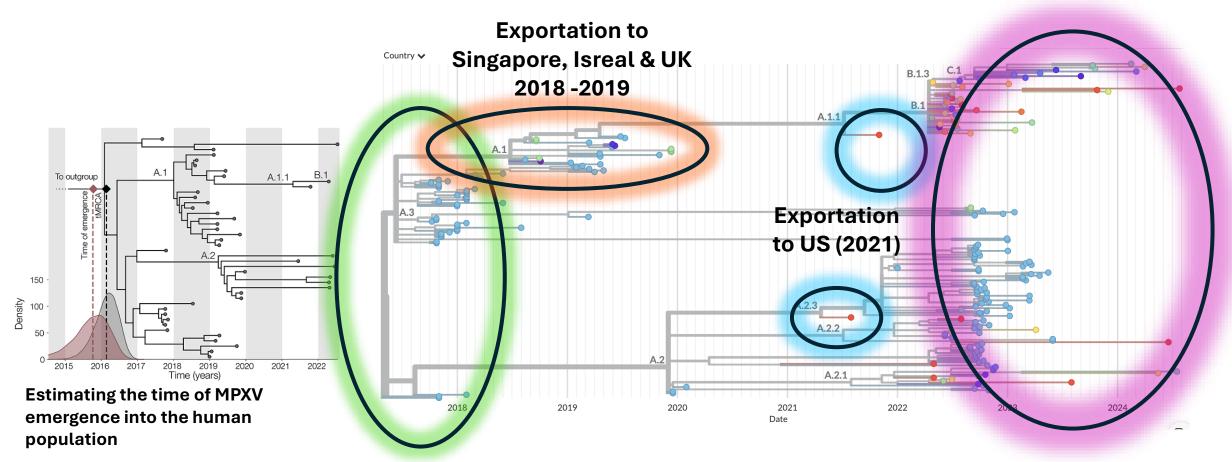








## Link between Nigeria outbreak and global outbreak



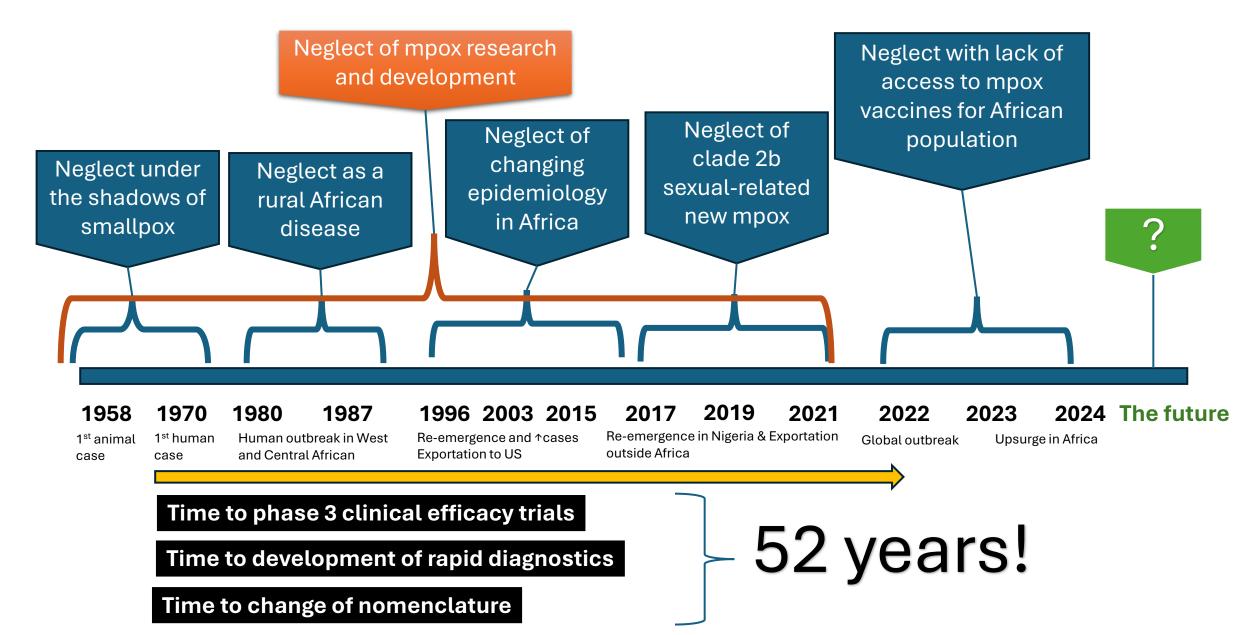
Nigeira: 2017-2018 Mpox outbreak

Global outbreak 2022-2024

**XIAS** 

## Historical trends of mpox neglect









## **Way forward**











Sustainable global partnerships





Research and development

## Thank you for listening