



Practical aspects of cholera surveillance in Zambia-success factors and challenges.



MCEP-Cholera Surveillance lead

PHS-IDSR/EBS

ACDCP @ZNPHI

GTFCC Surveillance meeting-Cairo, Egypt.





Cross-border Coordination & Information sharing; a Regional Perspective



Zambia is land linked with 8 neighboring countries.

Currently, seven (7) SADC countries have ongoing cholera outbreaks

Zambia's current outbreak is concentrated in districts bordering with Malawi, Mozambique, Zimbabwe and the DRC

Our people cross borders for social, economic and cultural reasons!



Regional/Sub-regional level multi-sectoral IMS would go a long way.





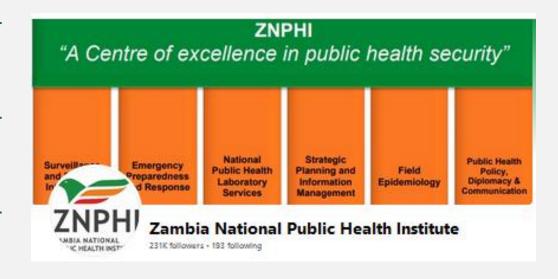
Surveillance coordination and Information sharing

Zambia's national surveillance system is the cornerstone for safeguarding public health security.

The Zambia National Public Health Institute (ZNPHI) leads on public health security & disease intelligence in-keeping with IHR (2005)

ZNPHI is the designate IHR national Focal Point that ensures timely & prompt notification of all disease outbreaks in strict compliance with IHR (2005)

Zambia has implemented Integrated Disease Surveillance and Response (IDSR) at all levels of healthcare system





Surveillance coordination and Information sharing





Surveillance informs hotspot mapping, outbreak detection, confirmation, reporting and response



Routine surveillance data is regularly shared (Weekly Epidemiological Bulletin) with all stakeholders.



During outbreak response, specific surveillance data is shared through the Incident Management System (IMS) – critical to response coordination!



Regular review and functionality testing of the surveillance system ensures continuous improvement

Background of Cholera in Zambia

Cholera is now endemic in Zambia (more than 3 years consecutive confirming cholera outbreak with evidence of local transmission)

+ 37 outbreak since 1977,

Currently controlling an unprecedented cholera outbreak that originated in Lusaka Province

Rapidly spread to eight additional provinces.(9/10)

The outbreak, initiated in peri-urban areas Lusk, Minister declare cholera outbreak-18 th October 2024 Total of 23,249 reported cases and 740 deaths from October 2023 to May 14, 2024.

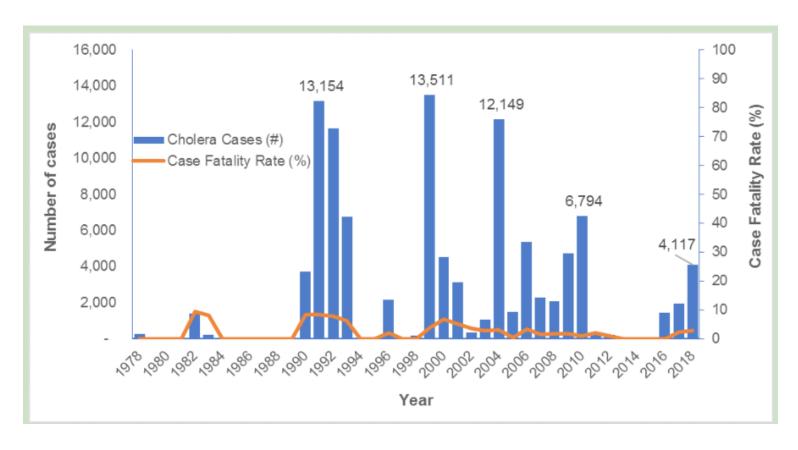
Cumulative incidence rate stands at 11.3 per 1,000,000 population

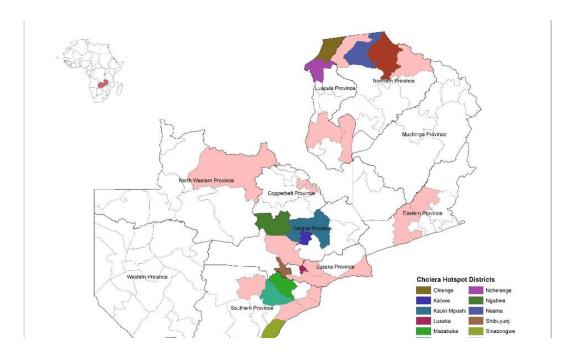
Case Fatality Rate (CFR) of 3.18%.

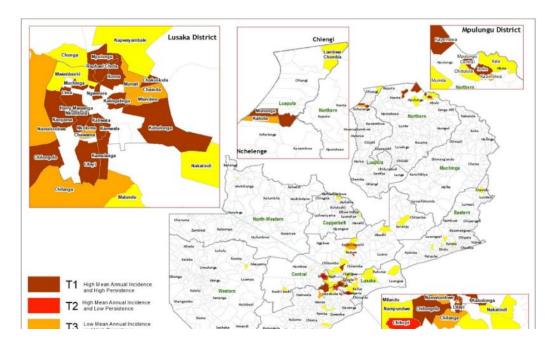




Trends of cholera in Zambia 1977-2019





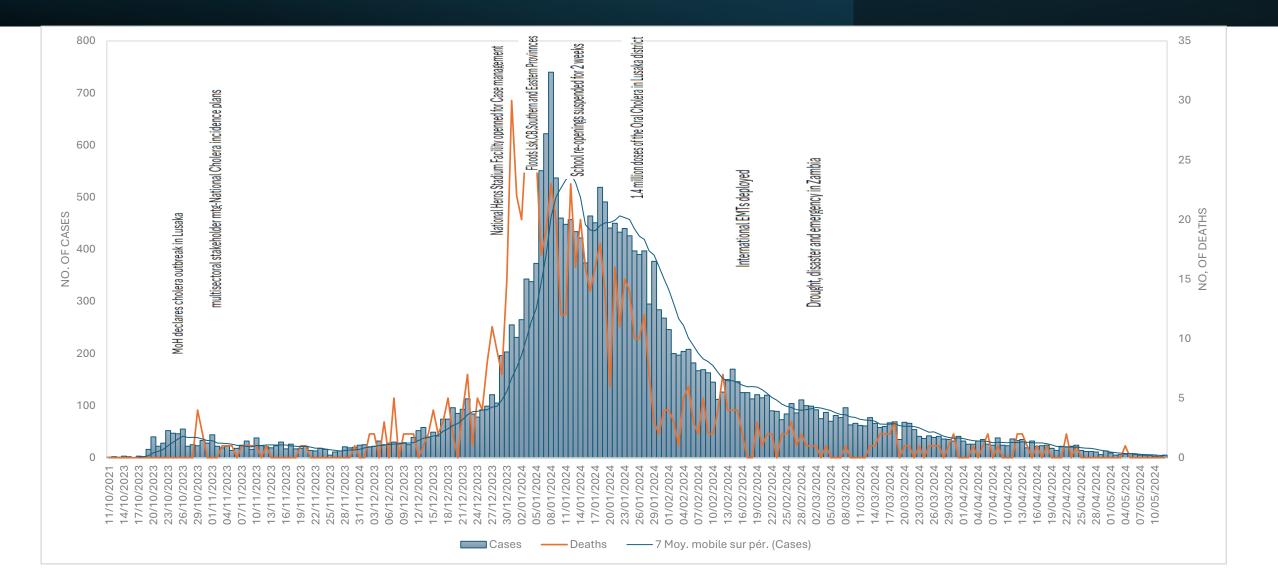


Cholera hotspots in Zambia



Epidemiological update on cholera-Trend Analysis for Number of Cases, Deaths and key interventions from 11th October 2023 to 14th May 2024





Risk factors





Unplanned peri-urban settlement-Inadequate WaSH

Fishing Camps-water bodies (national and international)

Naïve population (internal-migrant)

Population mobility (internal and across the borders)

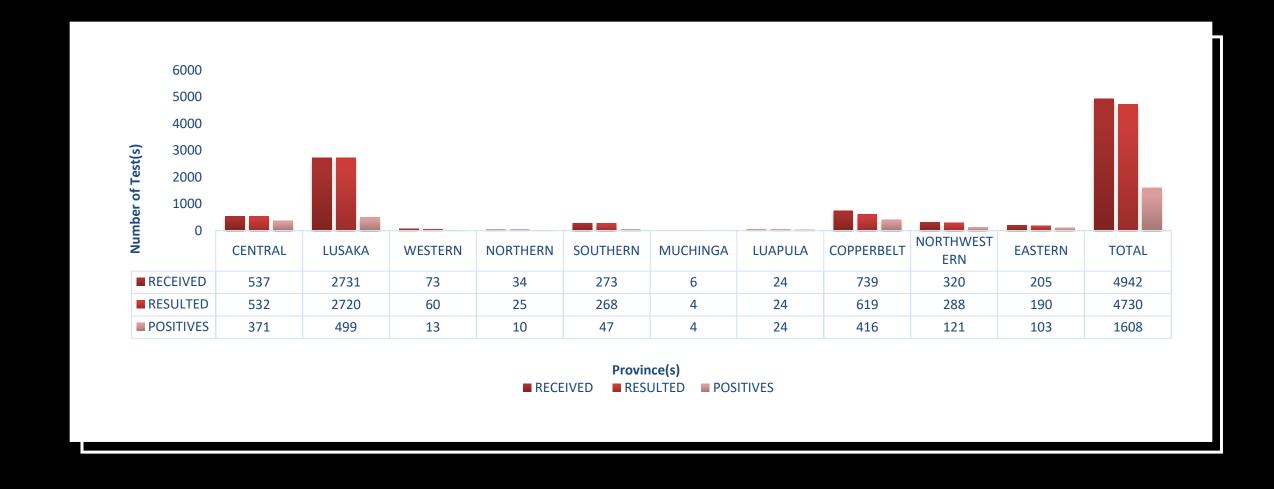
Climate changeflooding/drought

Community preparedness and readiness



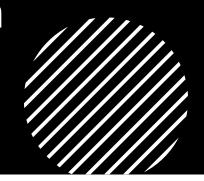
Cholera Samples Received/Resulted by Province in Zambia as of 3rd May 2024

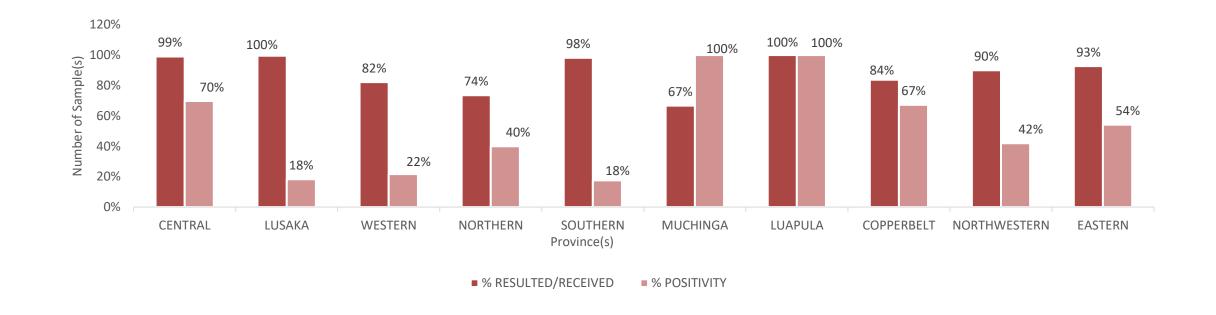






Resulted/Test Positivity Rate by Province in Zambia as of 3rd May 2024

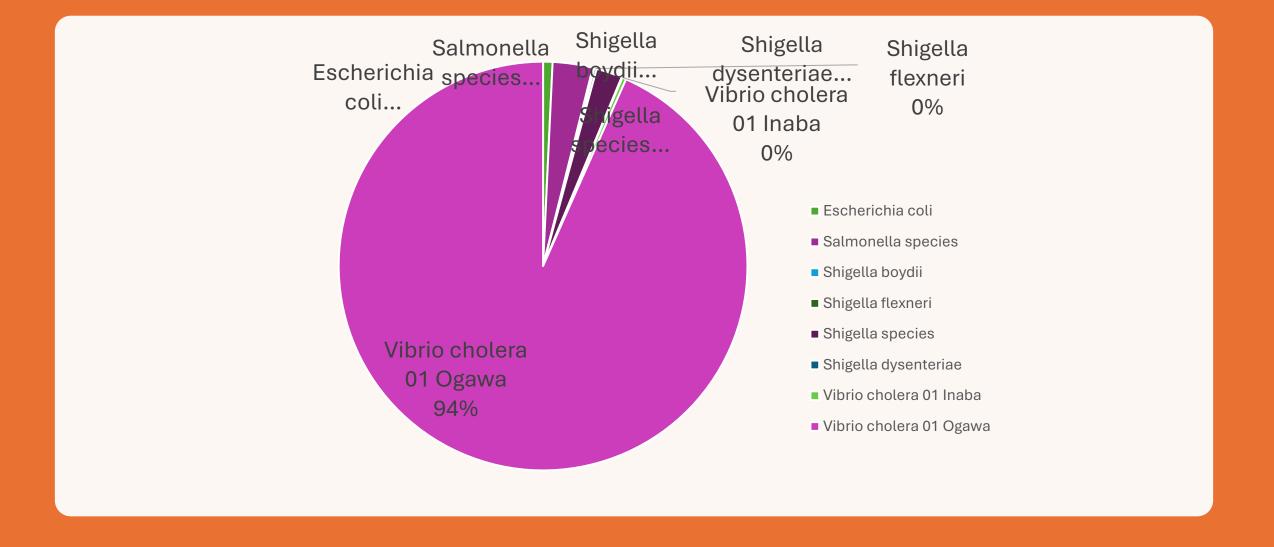






Organisms Isolated From Culture (N-1608) in Zambia as of 3rd May 2024







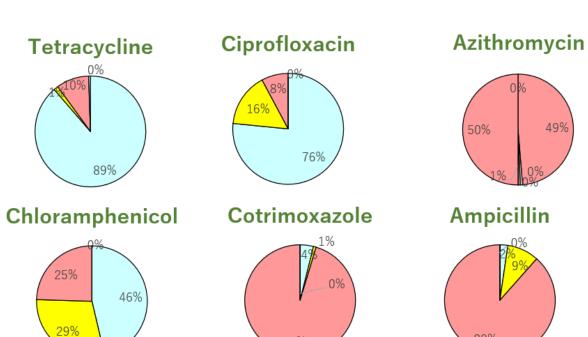


Not

tested

49%

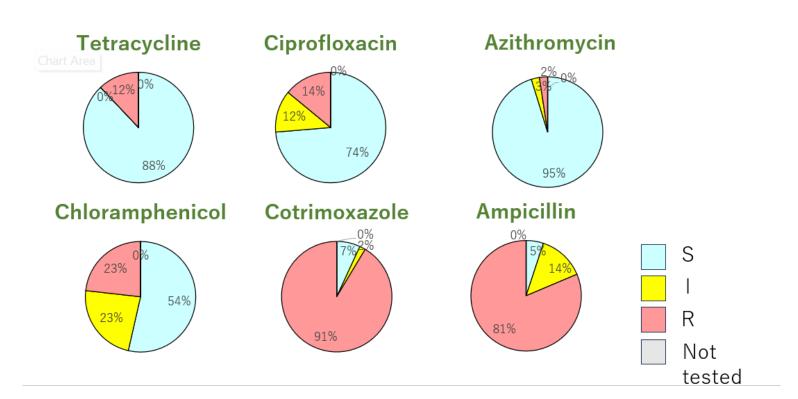
Antibiogram Lusaka (n=378, 3rd MAY 2024)







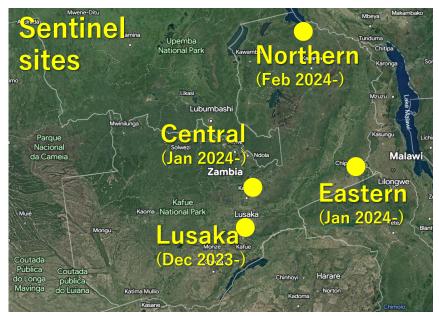
<5 years old (n=135, 3rd MAY 2024)



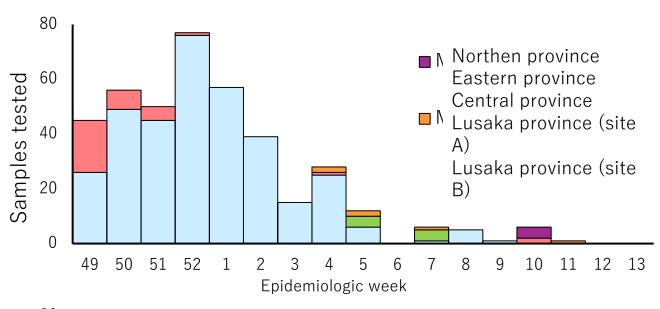


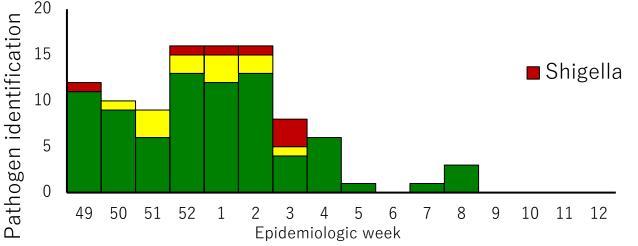
Acute Gastroenteritis Surveillance











Observations of recent trends of Cholera

Increased frequency of Cholera events

Increased numbers of cholera cases

Protracted-Increased duration of cholera outbreaks

Increased Geographical spread to non-Cholera Hot Spot Areas

High population mobility –internal and across the boarders- Malawi, DRC, Zimbabwe, Mozambique



What has worked or is working -best practice



Continued political will and leadership

Approved Cholera
Multisectoral Plan and resource mobilization

Active Surveillance
laboratory TWGs/Partner
collaboration and
coordination both
internal and external

Digital management of cholera surveillance data (DHIS-2 for eIDSR, EMS)

Resilient health System support routine health services

Availability of MCEP and supporting Integrated cholera surveillance, laboratory and case management guideline





Challenges



Inadequate deployment of community surveillance – CEBS,CBS and Active search



Inadequate use of cholera risk assessment tools



Inadequate SOPs, Job Aid, compliance to standard case definition based on the prevailing risk (overreporting of case during seasonal diarrheal period)



Inadequate screening tools (RDTs) and capacity for confirmation of cholera and monitoring of the outbreak



Multiple concurrent outbreaksmeasles, anthrax and conjunctivitis



Preparedness for drought emergency-adaptive surveillance



Cross border communication, collaboration and coordination

- Zambia-DRC Cross border meeting held in Chililabombwe Zambia
- Share information,
- Identify common risk
- Develop joint plans of interventions





