GLOBAL TASK FORCE ON CHOLERA CONTROL



BATTLING AN INTRACTABLE CHOLERA OUTBREAK IN THE REPUBLIC OF MALAWI Wilfred Nkhoma, MPH, PhD, FRSPH
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Government of Malawi

IMPORTANT ANTECEDENTS TO THE CURRENT CHOLERA OUTBREAK IN MALAWI

Outbreak history, estimated water and sanitation coverages

■ Prior the current one, last cholera outbreak was from October 2001 to April 2002, affected 26 of the 29 health districts, resulted in 33,546 cases and 968 deaths (CFR 3%).

52.1% of Malawi population (9.9 of 19 mil) lacks adequate basic sanitation

29.5% of Malawi population (5.6 of 19 mil) lacks access to safe water sources.

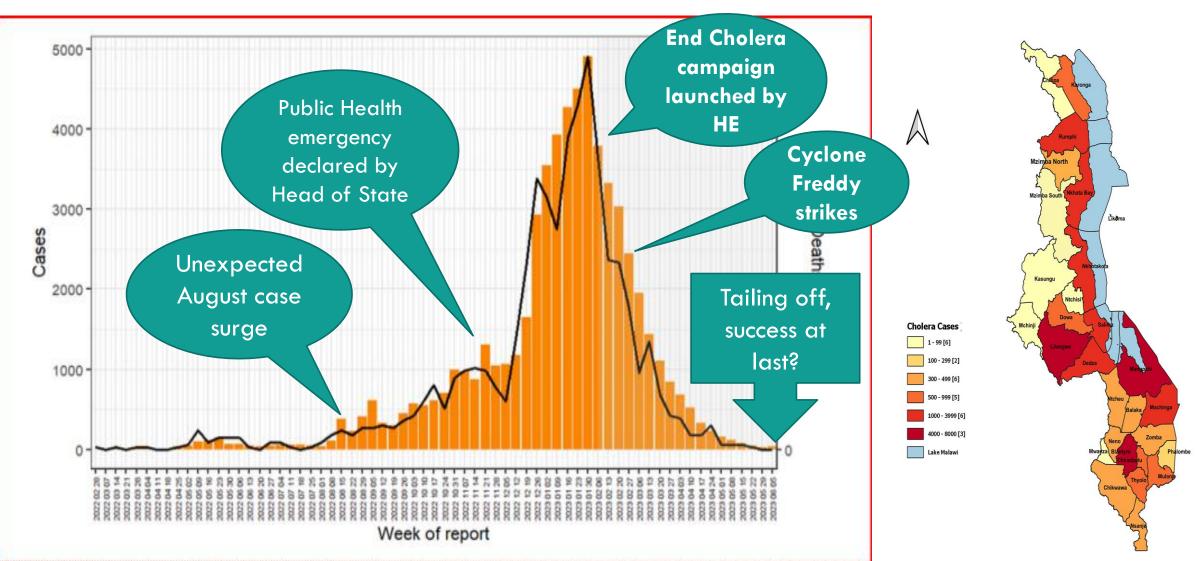
Share of violent cyclones since 2018

In the past five years, Malawi has suffered at least four cyclones on account of its proximity to Mozambique and the Indian Ocean. Consequently, the hardest hit have been districts in the Southern Region of the country. The cyclone seasons have linked with the summer monsoon in the Indian Ocean (Dec to March):

- 1) Cyclone Idai: March 4-16, 2019: Wind speed: max. 213 km/h; Diameter max. 185 km; Saffir-Simpson category 4; Affected districts in the Southern Region
- 2) Tropical Storm Ana: January 23-25, 2022: Wind speed: max. 93 km/h, Diameter: max. 148 km. <u>Affected regions</u>, <u>Southern Region</u>
- 3) Cyclone Gombe: March 8-14, 2022: Wind speed max. 183 km/h; Diameter, max. 630 km; Saffir-Simpson category 3; <u>Affected regions Southern Region</u>
- 4) Cyclone Freddy: March 2-14, 2023: Wind speed max. 183 km/h: Diameter max 556 km; Saffir-Simpson category 3; <u>Affected districts in the Southern Region</u>

1. CHOLERA OUTBREAK EPIDEMILOGIC SITUATION. Epi curve, weekly reported cases Feb 2022 to June 2023. Started in Feb 2022, defied the dry season, peaked with the rainy season, concentrated in lakeshore districts and two main cities (peri-urban areas)

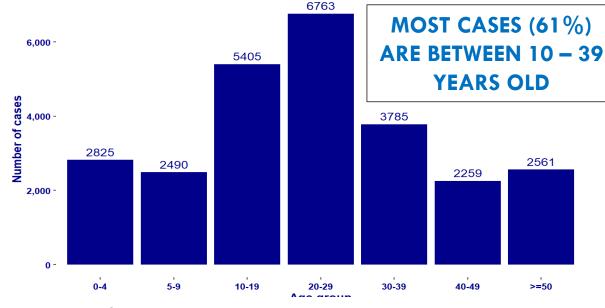
CUMULATIVE: CASES: 58 887 | DEATHS 1 762 | CFR:3.0%



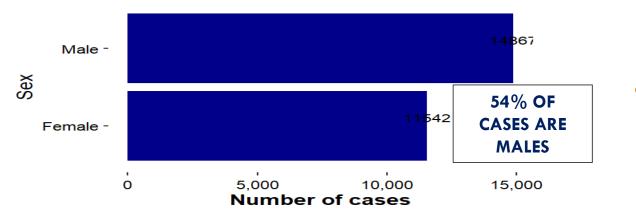
Outbreak with a demographic face: Stratification of cholera cases and deaths by age group and sex

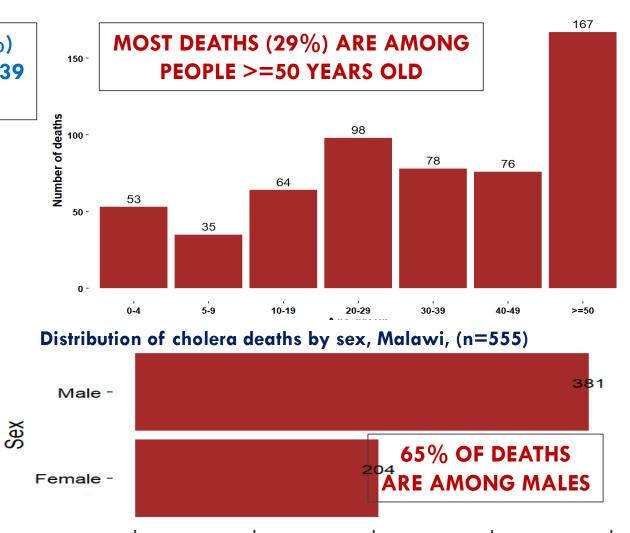
Distribution of cholera cases by age group, Malawi, (n=26,088)

Distribution of cholera deaths by age group, Malawi, (n=571)



Distribution of cholera cases by sex, Malawi, (n=24,564)





200

Number of deaths

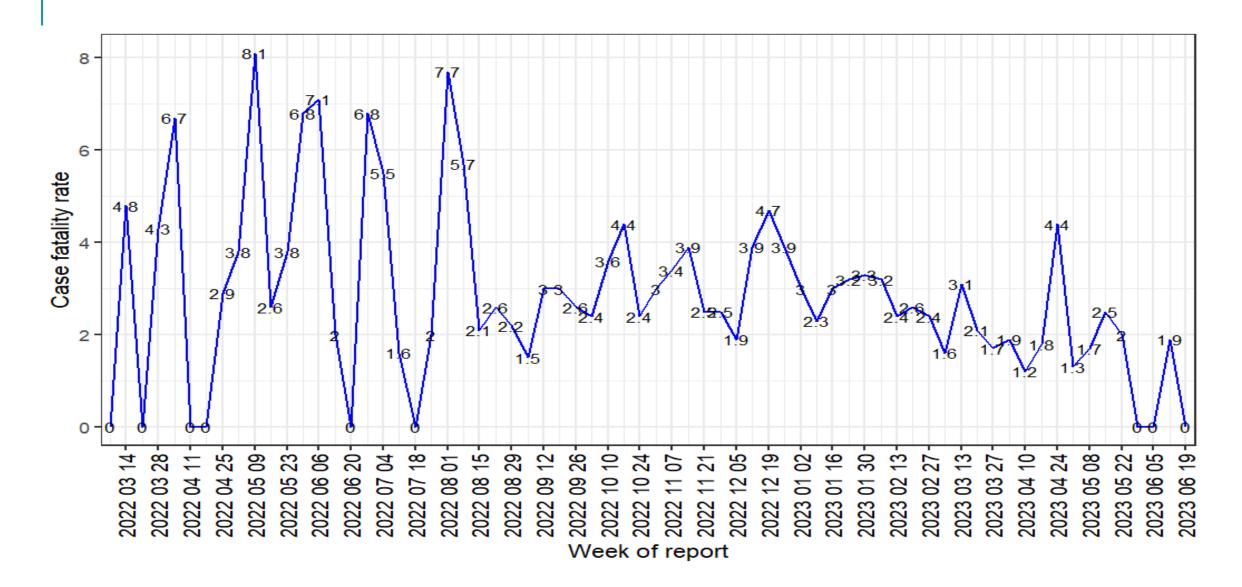
0

100

400

300

OUTBREAK WITH OVERALL (CUMULATIVE) HIGH CASE FATALITY RATE CFR NOW DECREASED ... FROM 1.9% TO 0% IN THE LAST WEEK : Trend of weekly case fatality rate: 28 Feb 2022 – 25 June 2023



2. NATIONAL STRATEGIC APPROACHES AND INTERVENTIONS ADOPTED FOR CHOLERA CONTROL (1)

Governance and stewardship: Declaration of state of Public Health Emergency (by Head of State); Designation of Presidential Taskforce on Cholera Control, activation of intersectoral / Multisectoral response clusters to enhance cross sector coordination and collaboration; set up of EOCs at various levels; set up of District Rapid Response Teams (DRRTs); mobilization and distribution of supplies and logistics; cross border collaboration initiatives; launch and roll out of national End Cholera Campaign (by Head of State)

Elaboration of National Preparedness and Response Plan as blue print: directed at four key risk factors: **high use of unsafe water sources; low latrine coverage (promoting open defeacation free zones); poor general sanitation and food hygiene;** and suboptimal **RCCE variables** (inadequate risk communication, low community awareness of cholera and methods for its control, and suboptimal participation of local communities and leaderships, etc.)

Case identification, prevention, treatment and care initiatives: Early case detection and contact tracing; Training / mentorship of health workers on Cholera; proper case management at health facility and community levels; clinical and death audits on cholera; OCV administration; RCCE initiatives

2. NATIONAL STRATEGIC APPROACHES AND INTERVENTIONS ADOPTED FOR CHOLERA CONTROL (2)

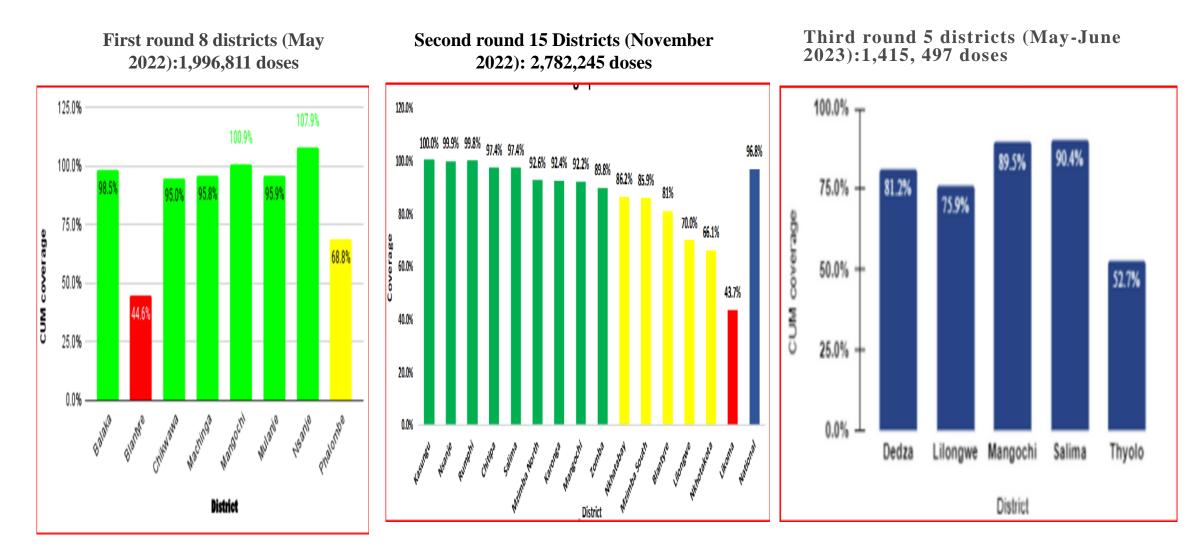
□Water and Sanitation (WASH) interventions: aimed at Improving access to safe water and improving sanitation coverage and hygiene practices : activating old and new safe water sources, chlorination, water bowsers, water bills payment amnesty, etc. ... focus on hotspots and high risk areas

Enhancing Risk Communication and Community Engagement: Awareness raising, civil society mobilisation, **community engagement drives, NGOs and media engagement, etc.**

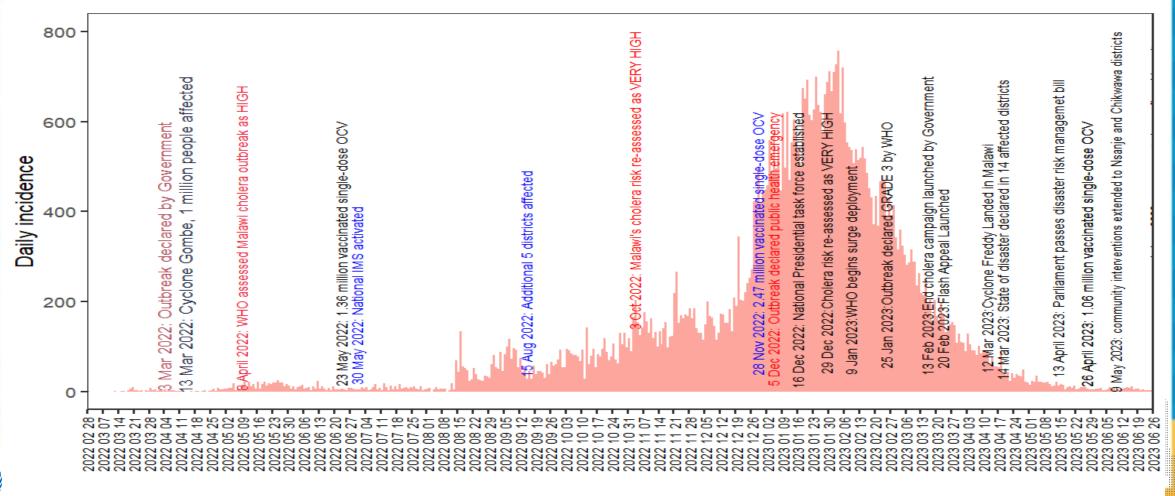
Adjunct response knobs:

- 1. Capacity building- Infrastructure, Mentorship/Supervision and Training of health workers in Cholera case management.
- 2. Setup of Mobile clinics in Cyclone Freddy affected districts
- 3. Establishment of ORPs Community Oral Rehydration Points in Cholera Hot spots and Cyclone affected district/IDP camps ... a surprise winner for local leaders and chiefs who have refused to close them even when cases are low
- 4. Assessment of, and actions to facilitate continuity of essential health services delivery in the context of the cholera outbreak and cyclone Freddy (93 health facilities across 16 high cholera burden and heavily Freddy affected districts)

STRATEGIES CONTINUED: TARGETED ORAL CHOLERA VACCINATION DRIVES ... to the extent that OCV stocks allowed



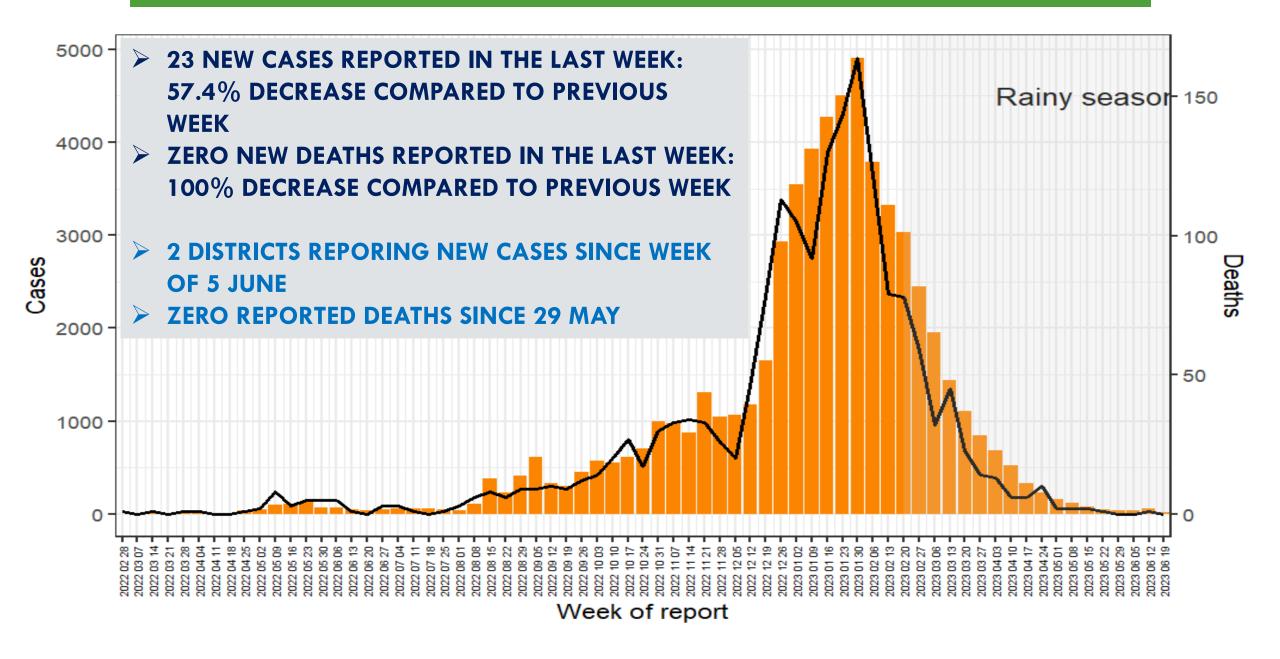
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3. KEY ACHIEVEMENTS AND PURPORTED SUCCESS FACTORS

Key Achievements	Success Factors		
ENHANCED Multisectoral collaboration and coordination	 Presidential declaration of and a public Health Emergency and launch of an End Cholera Campaign Supra ministerial and departmental oversight body: PTF, EOCs, Activation of cross Ministry and cross departmental Response Clusters at central level, and EOCs at district level (existing decentralisation structure) 		
IMPROVING awareness, and participationcommunity community	Community engagement meetings with block, community and religious leaders; engagement and mentoring of public and private media;		
IMPROVED quality of treatment and care	Decentralisation of care infrastructure; donor and private sector support with human, material and infrastructre resources;		
DECLINED case incidence and case fatality rate	Decentralisation of care infrastructure; donor and private sector support with human, material and infrastructure resources; roll out of WASH initiatives focusing on increasing access to safe water and sanitation facilities: initiatives to provide safe water, house to house water chlorination; intensified contact tracing		
CONTAINED CASE INCIDENCE DESPITE CYCLONE FREDDY and establishment of IDP camps	 Existence of effective countrywide Disaster Preparedness and Response structure and plan Government and partner resources mobilisation and disbursement 		

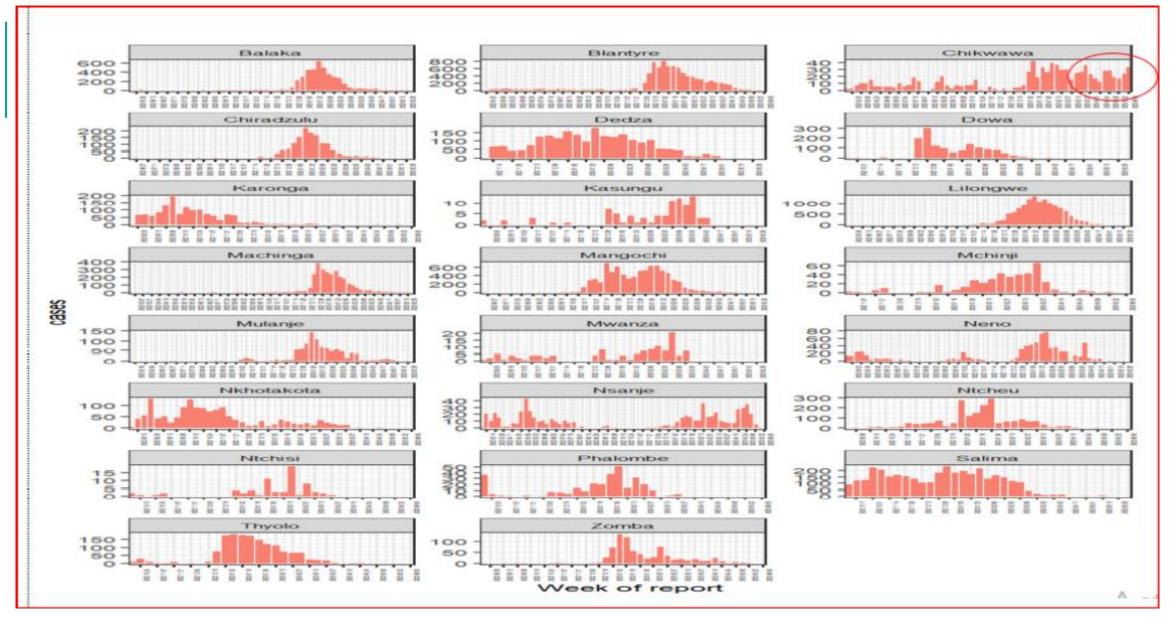
Declining weekly incidence of cholera cases and deaths, 28 Feb 2022- 25 June 2023



STEADY CONTROL OF NEW CASES AND DEATHS ESTABLISHED: Cases and deaths by epi week: 15 may – 23 June 2023

REPORTING PERIOD		NEW CASES	NEW	CASE FATALIT	NUMBER OF DISTRICTS REPORTING	NUMBER OF DISTRICTS THAT HAVE REPORTED NO CASES IN LAST 14 DAYS (OUT OF 28)
19-23 JUNE	26	23	0	0.0%	2	21
05-11 JUNE	23	34	0	0.0%	2	21
29 MAY -4 JUNE	22	17	0	0.0%	6	18
22 -28 MAY	21			2.0%		
15-21 MAY	20			2.6%		18

STEADY DECLINE IN NEW CASES ACHIEVED IN THE MAJORITY OF DISTRICTS: Weekly trend of cholera cases in selected districts:



4. CHALLENGES AND WAY FORWARD (1)

CHALLENGES	Solutions	REMAINING OBSTACLES
CASE MANAGEMENT AND IPC : Inadequate staffing; diagnoses, care and treatment infrastructure and equipment; PPEs; supplies of OCV; and high cost of managing admitted cases [estimated at 50 million kwacha a day]	 Capacity building: infrastructure development, mentorship/ supervision; setup of mobile clinics in Cyclone Freddy affected districts; set up of ORPS in Cholera Hot spots and Cyclone affected district/IDP camps; rrecruitment of additional staff to meet rising demand; cross border initiatives 	• High CFR, shortage of supplies and commodities, in-adequate human resources, lack of permanent infrastructure; inadequate coverage with diagnostic services (RDT, culture and PCR), low OCV stocks; mobile populations (fishing communities)
WASH: Low coverage of safe water sources and latrines; widespread poor sanitation and hygiene practices; shortages of HTH for chlorination; high cost of WASH equipment and investments; and averse social cultural and religious beliefs related to some WASH practices	sector: Ministry in PTF; local water boards; WASH services NGOsRCCE on WASH initiatives	 Low coverage with safe water and adequate sanitation WASH infrastructure destroyed by Cyclone Freddy occurrences
RISK COMMUNICATION & COMMUNITY ENGAGEMENT: low community awareness; Inadequate coverage with community engagement and Interpersonal Communication initiatives; averse social cultural and religious beliefs related to some cholera causes and control strategies	disseminations	 Averse traditional beliefs and practices Averse religious beliefs Inadequate public media coverage

4. CHALLENGES AND WAY FORWARD (2)

CHALLENGES	Solutions	REMAINING OBSTACLES
SUPPLIES AND LOGISTICS : Inadequate essential supplies and commodities for cholera prevention and management (intravenous fluids, IV giving sets and accessories, oral rehydration salts etc.); high freight costs and long lead times for pipeline supplies; inadequate storage capacity at subnational and service delivery levels	 Supplies monitoring initiatives at service delivery levels; subnational storage depos; engagement of donor partners; prestocking initiatives 	 Background inadequate financial and material resources; Rising cost of supplies and commodities due to global economic challenges; High freight costs and long lead times for pipeline supplies
SURVEILLANCE: inadequate technical and geographical diagnostic capacity and supplies (RDTs, culture and sensitivity and Genomic sequencing); inadequate human and logistic resources for contact tracing, and follow up; inadequate recording and reporting equipment and human resources	 Intergrated recording and reporting by service delivery facilities Mentorship and data quality assemesnt initiatives 	 low coverage of capacity to confirm cases; Low geographical coverage, and digitisation of surveillance system
EFFECTS OF ENVIRONMENTAL DEGRADATION AND CLIMATE CHANGE Increased risk of floods and cyclones	Promoting environmental initiatives that protect natural world: leveraging sustainable, eco-friendly, and environmentally safe practices and alternatives such as water conservation and shifting to renewable energy	pollution and waste, global warming, and poorly planned

5. PRIORITIES JUNE 2023-DEC 24

OVERALL PRIORITY FOCUS: Towards eliminating cholera from the country:

PRIORITY KNOBS

POTENTAIL BOTTLENECKS, GAPS AND NEEDS TO ADDRESS

1) Addressing factors driving high impact of infection and disease (weak health systems, lack of access to timely diagnosis, late diagnosis and delayed entry into clinical care pathway; lack of access to life-saving supplies and commodities such as OCV, IV fluids, ORS, and other therapeutics etc.).

2) Addressing factors driving high transmission of infection - Working towards <u>universal access to</u> <u>safe drinking water and adequate sanitation –</u> WASH

3) Establishing <u>multisectoral national capacity to</u> <u>prevent, prepare for, detect and respond to</u> <u>cholera outbreaks</u> Systems to deliver integrated and <u>cross border preparedness and</u> <u>response</u> Inadequate human resources base; Inadequate resilient infrastructure and equipment for diagnosis, treatment, care and elimination; Averse community mindset and engagement for prevention and case management; inadequate supplies of OCV; inadequate resources to sustain essential health services; Limited stockpiles and operational support

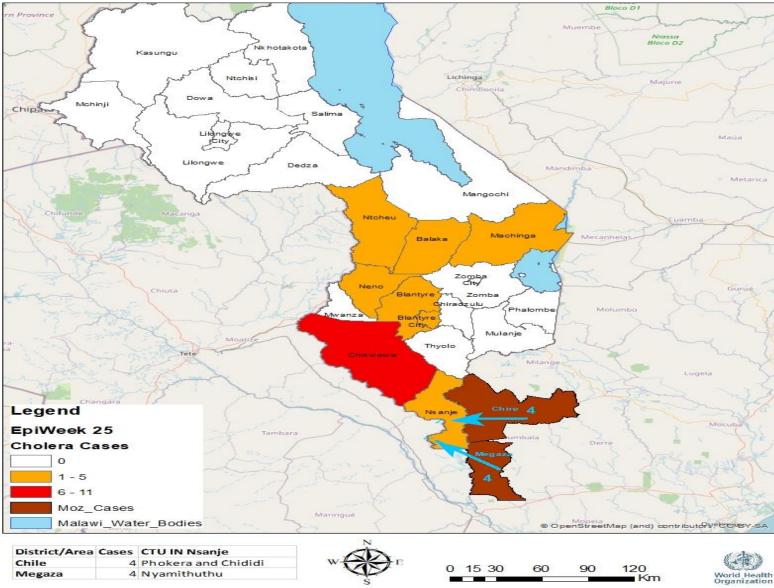
• Low background coverage of safe water sources and adequate sanitation; WASH infrastructure destroyed by Cyclone Freddy; High cost of WASH Equipment and infrastructure; Inadequate financial resources

Coordination and resource base

CROSS BORDER TRANSMISSION OF INFECTIONS IS A FACTOR THAT MUST BE ADDRESSED : Communities driving burden of cases in Nsanje and Chikwawa districts, 19-25 June 2023



RECENT CASES LINKED WITH COMMUNITIES IN MOZAMBIQUE IN THE LAST WEEK





Malawi



Partnerships at work: Key partners ... not exhaustive

Government leadership and stewardship, KEY

- The local private sector
- UN system (WHO, UNICEF, UNFPA, WFP)
- Bilateral Donors : USAID , HSFJ (FCDO and KFW), amongst others
- Multilateral donors: World Bank and MRCS
- NGOs : IFRC, Save the Children , GIZ , World Vision , MSF , CARE , Action Aid amongst others
- Local and international well wishers



Malawi

Together we can #endcholera

