





Initial assessment and multisectoral response to control a cholera outbreak



Initial assessment







Field investigation

1. Review the registers at the health facilities

- Check the register for identifying potential previous cases
- Collect data of suspected cholera per age group and week, from the register
- Try to collect data from at least one month prior to the first suspected cases to identify when the number of cases increased
- Collect data on where patients live when available

- 2. Examine patients and review clinical management
- 3. Collect laboratory specimens to confirm the diagnosis
- 4. Review water, sanitation and hygiene, and IPC measures at the HF level
- 5. Conduct a community WASH investigation
- 6. Conduct active case finding, social mobilization and community engagement
- 7. Conduct HH visits and interviews
- 8. Conduct risk and needs assessment





What's a Risk assessment?

Likelihood of transmission

- Access to safe water and sanitation?
- Population behavior? and gender related barriers for WASH and Health
- Geographical, environmental and climate conditions?
- Areas with high population density?

Potential impact of the disease

- Availability of health services and functional status of health system?
- Existing cholera preparedness ?
- Access to treatment (ORS, intravenous fluids) ?
- Capacity of health care workers to provide case management?
- Supplies available ?

- Health seeking behaviors ?
- Malnutrition status ?
- Population immunity (previous exposure to cholera, previous cholera vaccination)?

Water sources used?
Chlorination?
Open defecation?
Handwashing?

Slums?
Camps for refugees
or In-Displaced
Population?
Areas with high
transit of people?





Tools available for assessing the situation

- Preparedness plan to cholera epidemics
- Cholera national plan
- E-Dews and communitybased surveillance
- KABP surveys
- Partner surveys done in the area
- Humanitarian reports
- Press/ newspapers
- Etc....

Existing data

Formats:

- Polling through cellphones
- Hotlines/ call centres
- Social media pages,
- Surveys
- Focus group discussions.
- Information
 Feedback Centres

- Community-Based Feedback Mechanisms:
- Iterative tuning of programmatic responses
- Epidemiological intelligence
- Feedback from the Health cluster partners, and local NGOs

The Accountability to Affected Populations (AAP)





Group Exercise Scenario 2

You will be divided into breakout rooms.

The following link will be sent to you

Scenario Two: The Onset?

https://docs.google.com/forms/d/e/1FAIpQLSf3WSS5WOzOzXPA8JVPgevIgUc8-GubDRT8KwiQ8uvLrGtsaA/viewform?usp=pp_url

Read the scenario, discuss the questions and be ready to report back



Break



Axis 1: A multisectoral approach to cholera response



Gender dimension influence all 5 pillars

- restricted mobility affect reporting
- Need for female staff or separate units
- Concerns about fertility risks of OCV
- Biological needs for WASH





Surveillance



- Health facility-based surveillance
 Cholera line list at CTU/CTC level
- Community based surveillance
- Laboratory surveillance

- Lab confirmation by culture or PCR for each new area affected by the outbreak
- Periodic sampling of suspected cases (RDT+ or severe dehydration) per inpatient health facility
- For large/nation wide outbreak, use a representative number of Health Facilities (sentinel sites). Representative of the main affected areas





Surveillance

IDSR, WHO International partners



Other Ministries or agencies National level

Ministry of health

Health department

District level

Laboratory

Area where an outbreak is declared : daily/ weekly report

Health care centers, Hospitals, CTC
Community health workers
Community level

Data sharing on a daily basis

for case-based response (WASH strategy)

-- cluster of cases
:prioritize affected
location for rapid
intervention

-- intervention at household levunicef



Monitor and adapt control measures

Case Management

Ensure patient social support and family reception linked to psychosocial (SBC/RCCE/PSY team)



Should be trained on **IPC**, on prevention of cholera, to protect themselves, to prevent transmission at the treatment site and to provide information on

prevention of

cholera for the

community

Within the community (Level 1)

Oral rehydration Point (ORP) or Oral Rehydration Corner (ORC)

- No beds
- Located at community level
- Dedicated to people with mild/moderate dehydration
- Provision of ORS (and Zinc)
- Screening for severe dehydration : referral

Cholera treatment Unit (CTU) (Level 3)

- 10-20 beds
- Settled when there are long distances between communities (decentralized facility)
- Located inside a health facility or close by
- In- cholera patient facility separated from others
- ORC + full range of treatment including for severe dehydration

Small health facility (Level 2)

- Small health facility/ dispensary
- 1-5 beds
- May contain an ORC and a room with a small number of dedicated beds for occasional severe patients

Cholera treatment centre (CTC) (Level 4)

- Hospital based or distinct site
- 25- 200 beds
- Ideally constructed in a hospital compound
- Dedicated facility for cholera patients
- ORC + full range of treatment including for severe dehydration and additional medical complications (i.e malnutrition)
- Usually in urban areas where there are a large number of cases
- Stool sample collection, safely package and adequately label samples for transport to a laboratory



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Source \

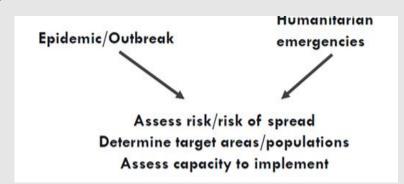
Reactive Oral Cholera Vaccination - OCV



Series of criteria to guide the decision to vaccinate during epidemics

- The risk of cholera among the targeted populations and the risk of geographic spread
- The programmatic capacity to cover as many persons as possible who are eligible to receive the vaccine and living in the targeted area (e.g. those aged ≥1)
- Implementation of previous OCV campaigns. Cholera vaccination should not be carried out if a campaign has been conducted in the previous 3 years in the same population, unless justified by continuous transmission resulting from inadequate vaccine coverage during the previous campaign and/or substantial population movements.

Vaccination should be ALWAYS done in conjunction with other cholera prevention and control strategies

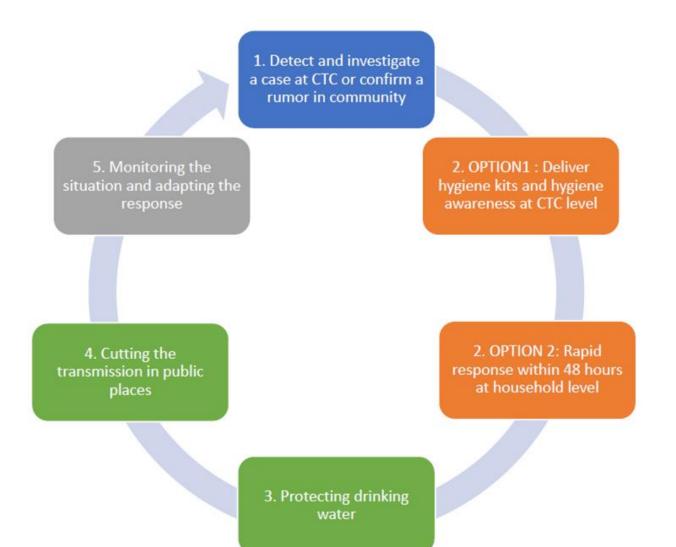




Water, Sanitation and Hygiene

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Blended approach to control cholera outbreak: targeted interventions coupled with community-wide actions.



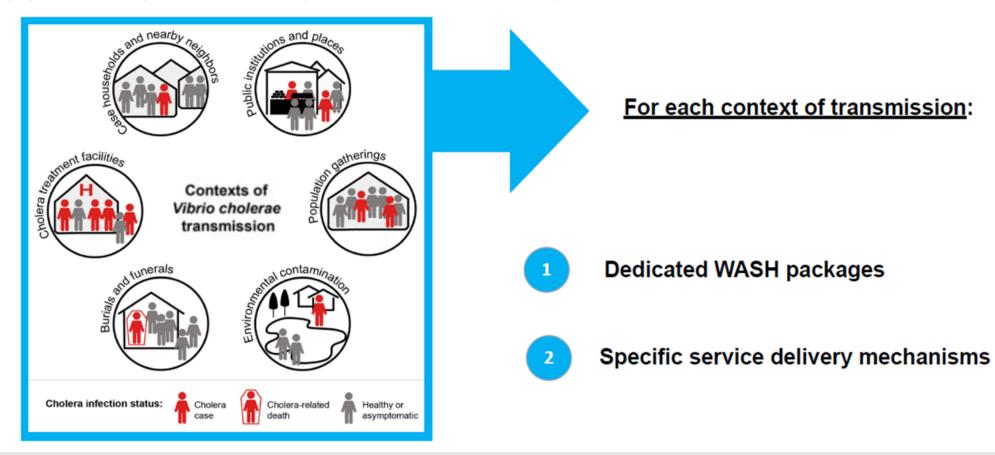
Source: Pierre-Yves Ogier, UNICEF cholera webinars 2023.





Outbreak control: Tailored WASH response packages (1/3)

Cholera control measures must be tailored according to the local disease transmission contexts as well as the at-risk populations and practices, which may evolve over the course of an epidemic.





Source: Pierre-Yves Ogier, UNICEF cholera webinars 2023.

Package for Water, Sanitation and Hygiene (1)



Improved access to safely managed water

- Chlorination of water sources and distribution systems or networks
- 'Quick fixes' to existing water infrastructure
- Temporary measures for provision of safe water (e.g. installation of emergency distribution tanks and/or water, trucking schemes)
- Distribution of water treatment products and safe water storage containers
- Water quality monitoring and surveillance

Improved access to safely managed sanitation and clean environment

- 'Quick fixes' to existing sanitation and wastewater infrastructure
- Cleaning and decommissioning of areas used for open defecation
- Upgrading, cleaning and emptying pit latrines (HH, communal or institutional)
- Temporary measures for provision of sanitation facilities including cleaning and maintenance in public places (i.e. communal or institutional)
- Community cleaning campaigns supported by rapid response teams, community health workers, community influencers and leaders





Package for Water, Sanitation and Hygiene (2)



Improved health and hygiene practices

- Household visits conducted by rapid response teams, community health workers, community influencers and leaders
- Installation and maintenance of hand washing stations, with soap and water (public places, institutions, vaccination sites)
- Provision of hygiene items, including soap, water treatment products, disinfection materials (e.g. cholera kits)

Community engagement

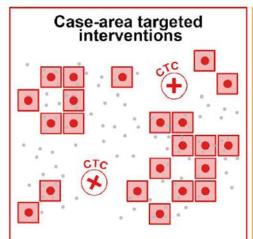
- Training of rapid response teams, community health workers, community influencers and leaders
- Community awareness campaign conducted by rapid response teams, community health workers, community influencers and leaders
- Dialogue and engagement with key stakeholders for the planning, implementation and monitoring





Water, Sanitation and Hygiene: Service delivery mechanisms (1)





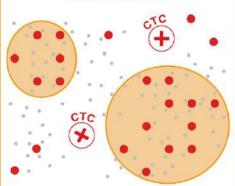
<u>Definition</u>: A specific package of tailored response activities implemented by a mobile response team targeting case households and neighboring households in a defined perimeter.

Objective: Limit cholera transmission around case residences.

Rationale

- Risk of cholera infection is higher for household members of cholera patients (especially during the first week and up to three weeks after the cholera patient seeks treatment).
- Nearby neighbors of cholera cases are at higher risk from cholera infection, compared with the general population (living within 150 meters of a cholera case).

Case-cluster targeted interventions



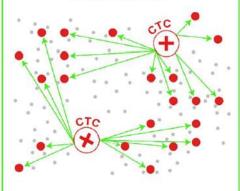
<u>Definition</u>: A specific package of tailored interventions implemented by a mobile response team targeting local clusters of cholera cases. Cholera case clusters are identified based on frequent analysis of the epidemiological data.

Objective: Limit cholera transmission in a given area by targeting local cholera case clusters.

Rationale

- Limited line listing access/quality does not enable case-area interventions.
- Too many cases and/or limited resources to ensure case-area interventions.

Healthcare facility-based interventions



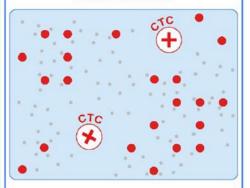
<u>Definition</u>: A standardized package of interventions delivered in the healthcare facility to case household members.

Objective: Limit cholera transmission among case household members.

Rationale:

- Risk of cholera infection is higher for household members of cholera patients (especially during the first week and up to three weeks after the cholera patient seeks treatment).
- Improve WASH conditions in the home in case of restricted access, insecurity and/or stigmatization.

Blanket neighborhood interventions



<u>Definition</u>: A specific package of tailored interventions implemented in affected neighborhoods and at-risk areas that are not yet affected.

<u>Objective</u>: Limit cholera transmission in affected neighborhoods and prevent cholera transmission in at-risk areas.

Rationale:

- Limited line listing access/quality does not enable case-area or case-cluster interventions.
- Too many cases and/or limited resources to ensure case-area or case-cluster interventions.
- Selection of the administrative level is based on analysis of the epidemiological data (i.e., incidence, attack rate).
- Interventions can be conducted at the community and household levels (includes activities in all residences of the targeted area).

Legend:

Cholera case residences

Uninfected but at-risk households



Case area (cholera case residence and close neighbors)

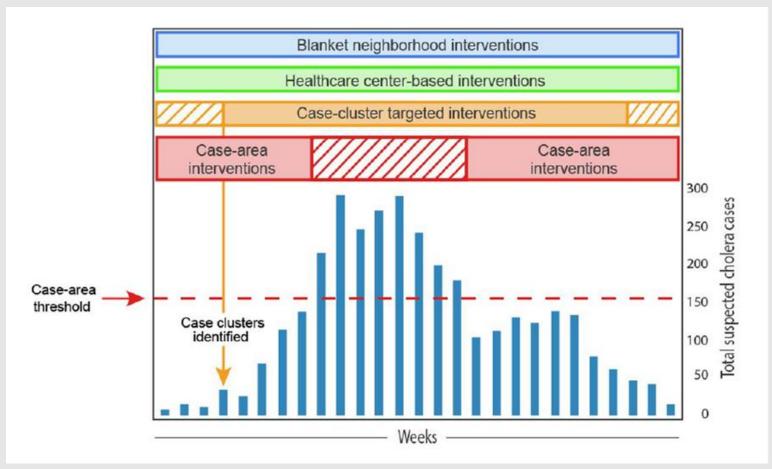


Healthcare center treating cholera cases











Source: Pierre-Yves Ogier, UNICEF cholera webinars 2023.

References

- Response to cholera outbreaks. Case areas targeted Interventions and community Outbreak Response Teams. UNICEF, 2020.
- Joint Operational Framework. Improving Integrated and Coordinated Cholera Preparedness and Response within humanitarian Crises. Joint collaboration between the global health cluster and the global WASH cluster. July 2020.



Community engagement system: who does what where

Monitoring uptake of key practices at various levels

Channels, reach, trust, influencers, social networks, rumors, perception of the response

Individual, social and structural drivers of WASH behaviors

Patients' feedback Accountability to Affected Population (AAP)

Awareness, social reasons for missed targets

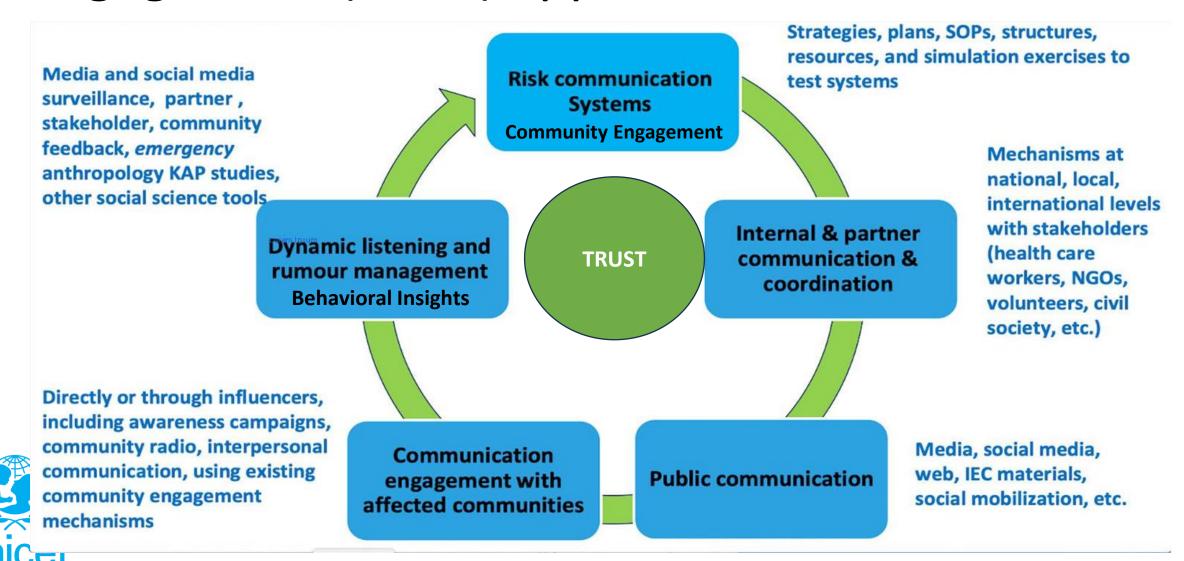
BEHAVIORAL DATA & RCCE ACTIVITIES ACROSS THE PACKAGE







Risk Communication and Community Engagement (RCCE) approach



COORDINATION

- Establish or activate RCCE coordination mechanisms at national, district and local level
- Mapping local and national partners, crisis cells and other coordination mechanisms
- Collaborate with all stakeholders to create clear and culturally sensitive RCCE strategies and plans
- Set up platforms for continuous, two-way communication between all parties, promoting transparency and trust
- Provide training, resources, and support to local and national partners for effective risk communication and community engagement

- The Public Health Emergency Operation Centre (PHEOC) at the national and sub-national levels
- Health Promotion working groups
- Health and WASH and other clusters/sectors, when existing
- Inter-ministerial Risk communication task force (COVID-19 pandemic heritage ?)
- Local Community Organizations and Groups



Data generation, Dynamic Listening and rumors management

- Localize the response: Conduct a rapid assessment of community knowledge, attitudes, perceptions, behaviours structural barriers, drivers, levels of trust and social norms that could impact AWD/cholera transmission
- Draw on existing sources of data
- Gather data continuously over time and use to realign strategies and plans as needed.
- Strengthen two-way community listening and feedback mechanisms (online and offline) and ensure feedback is provided to communities on changes made

Household/com munity behavioral risks

Knowledge: knowledge of cholera, aetiology, misinformation, rumours, perceptions of severity, identification of symptoms, transmission pathways, awarness of available services, FAQ

Attitudes: beliefs, preferences, likes and dislikes

Practices: actions, behaviours – independent, interdependent, dependent (who, where, how) identify HSB and the factors that condition it (practical, socio-cultural, economic and empirical)

Norms: socio-cultural traditions, costs, benefits

Gender & Power analysis: roles in relation to cholera: home, community and service delivery levels (identify practitioners, decision makers, influencers and gatekeepers at every level)

decision-making

Social networks: Key influencers and stakeholders Media and communication landscape:

- Monologic & dialogic channels: reach, penetration
- Trusted sources



Public communication

- Distribute risk communication materials and messages through trusted channels and trusted, influential voices to at-risk communities on preventative, protective and care-seeking behaviours.
- Engage and collaborate with media, influencers and stakeholders who can listen, advocate, educate, address rumours and misinformation, and build health literacy.
- Social listening and community feedback to track and monitor rumors, and better inform to programming and activities.

Messages should focus on recognizing symptoms of cholera, how it is transmitted, encouraging early treatment seeking behaviors and increasing awareness of prevention practices and strategies

Focus messaging and interventions over time to address main risks and gaps with positive actions that can be taken

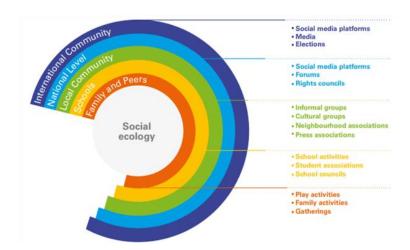




Community Engagement

- Engage and empower communities to participate in planning and implementation of response
- Engage in continuous capacity development of the community health workforce, frontline workers, volunteers, community leaders and community/social mobilizers from civil society organizations, faith-based organizations, local women and youth groups, empowering them and allowing issues to be adjusted locally
- Engage and collaborate with media, influencers and stakeholders who can listen, advocate, educate, address rumours and misinformation, and build health literacy

Identifying trusted channels/influencers



Engagement of religious leaders as change agents

Partnerships with schools and learning institutions as engagement points and for community mobilisation

Engagement of Community Health Workers CHW & Female Health Workers to create awareness on the health issues and diversity of services available to promote uptake

Private sector engagement

References

- Global strategic preparedness, readiness and response plan for cholera (who.int) April 2023- April 2024
- Communicating risk in public health emergencies. WHO, 2017.

9789241550208-eng.pdf (who.int)

- Assessing Social Norms: Everybody wants to belong | UNICEF Middle East and North Africa
- The Behavioural Drivers Model | UNICEF Middle East and North Africa
- Accountability to affected populations. A handbook for UNICEF and partners. UNICEF 2020.



Writing a cholera preparedness and response plan?

The ten pillars of the Global Strategic Preparedness, readiness and Response Plan

Pillar 1: Leadership, coordination, planning and monitoring

Pillar 2: Risk communication and community engagement (RCCE)

Pillar 3: Surveillance and outbreak investigation

Pillar 4: Water, sanitation and hygiene (WASH)

Pillar 5: Laboratory diagnostics and testing

Pillar 6: Infection prevention and control (IPC)

Pillar 7: Case management

Pillar 8: Operational support and logistics

Pillar 9: Continuity of essential health and social

services

Pillar 10: Vaccination

Core Components of WHO's Global Architecture for Health Emergency Preparedness, Response and Resilience	Pillars of the Global Cholera Strategic Preparedness, Readiness and Response Plan
Coordination	Pillar 1 Leadership, coordination, planning and monitoring
Collaborative surveillance	Pillar 3 Surveillance and outbreak investigation Pillar 5 Laboratory diagnostics and testing
Community protection	Pillar 2 Risk communication and community engagement (RCCE Pillar 4 Water, sanitation and hygiene (WASH) Pillar 10 Vaccination
Safe and scalable care	Pillar 6 Infection prevention and control Pillar 7 Case management Pillar 9 Continuity of essential health and social services
Countermeasures and research	Pillar 8 Operational support and logistics

Global strategic preparedness, readiness and response plan for cholera (who.int) - April 2023- April 2024

A Useful tool: Cholera Outbreak Toolbox (who.int)





Group Exercise Scenario 3

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Scenario 3: the multisectoral response

https://docs.google.com/forms/d/e/1FAIpQLScB-co9Xw5T_wU5IAZpBK0UqXejyN1so11ShgdzAvZvvxVLfw/viewform?usp=pp_url

Read the scenario, discuss the questions and be ready to report back



What we have learned in this session

 Each participant to write in the chat one new thing they have learned in this session



