

IMPROVING SURVEILLANCE: HOW TO REPORT CHOLERA CASES AND DEATHS?

A. Azman (JHU)
On behalf of the GTFCC
Epidemiology working group
26 September 2023

PUBLIC HEALTH SURVEILLANCE FOR CHOLERA

Timely and reliable cholera surveillance data critical to:

- Support early detection and quick response to contain outbreaks
- Inform targeted multisectoral strategies in National Cholera Plans
- Track progress and impact (monitoring and evaluation)

GTFCC Epidemiology Working Group

- Extensive ongoing work to update <u>Feb 2023 provisional GTFCC surveillance guidance</u>
- Goal: define minimum recommendations for fit for purpose cholera surveillance in-country

SURVEILLANCE CYCLE

Other use (advocacy, research, etc.)

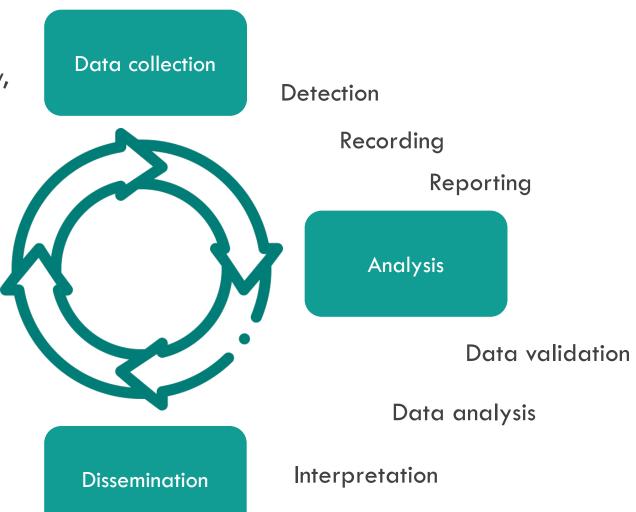
Policy & planning

Interventions

Operational use

Presentation & communication

Surveillance products



DETECTION OF SUSPECTED CHOLERA CASES

Suspected cholera cases

Patients meeting standard definitions based on clinical criteria

For early detection

In surveillance units where there is no probable or confirmed cholera outbreak A person \geq 2 years: with AWD and severe dehydration, or who died from AWD with no other known cause of death.

For monitoring

In surveillance unit where there is a probable or confirmed cholera outbreak Any person with or dying from AWD.

Detected in:

- Health facilities ("health facility-based surveillance")
- The community ("community-based surveillance")

RECORDING & REPORTING DATA Health facility-based surveillance

"Health facilities" (as defined for the purpose of health-facility surveillance)

- Any institution (public, private, NGOs or faith-based organizations) with outpatient and/or inpatient facilities
- Includes: health centres, hospitals, clinics, private practices, CTCs, CTUs, ORPs

Standard case-based data

- Collected on all suspected cholera cases using a standard case report form/line list
 - Patient information: age, sex, place of residence
 - Clinical information: symptom onset, inpatient/outpatient, dehydration level,
 outcome [alive, died at health facility, dead on arrival]
 - Laboratory information: tests performed, results

RECORDING & REPORTING DATA Community-based surveillance

Standard aggregated dataset

- Cases and deaths by age group <2 years old or ≥2 years old and sex
- Referral to health facility

"Community cholera death"

- Occurred in the community
- o Includes suspected cases who died **on their way to the health facility** (to be recorded as "Dead on arrival at health facility" and analyzed in CBS stream).

HOW TO CLASSIFY DEATHS

- If someone dies in a health facility they are classified as a **facility** death, regardless of how much time they spent in the facility.
- If someone arrives at a health facility dead, they should be recorded and analysed as a **community-based death**.

ANALYSIS OF SURVEILLANCE DATA

Data from health facilities and CBS programmes are reported and analyzed separately but should be interpreted in conjunction

- Description of cases and deaths by
 - Person (age groups, sex)
 - Place (spatial distribution)
 - Time (epicurve)
- Monitoring of key indicators
 - Incidence
 - Hospitalizations (% inpatient)
 - Levels of dehydration
 - Case fatality ratio (clinic-based only)

DISAGGREGATED DATA NEEDED TO UNDERSTAND DEATHS

Who is dying from cholera in health facilities?

- \circ Are there specific age-groups dying (careful not to report age groups that are too wide)?
- Are there specific facilities that have higher CFRs than others?
- Are there time trends in mortality risk within clinics (e.g., could point towards the importance of pre-emptive training in case management)

Not currently captured by minimum recommendations:

- Are people arriving late at facilities?
- Are people with specific comorbidities dying of cholera?
- Are pregnant women dying more often than others from cholera?

Who is dying from cholera in the community?

- Specific age groups?
- Limited access to care?
- Trends over time?
- Specific locations?

HOW SURVEILLANCE DATA CAN HELP WITH CASE MANAGEMENT

To inform case management interventions during an outbreak:

- Set up CTC/CTU/ORP & referral systems in specific locations to improve access to care
- Estimate CTC/CTU capacities needs
- Adaptive positioning treatment supplies and quantify needs
- Trigger investigation of indicators of late access to health care/inadequate case management to determine appropriate corrective actions
- Community engagement messages tailored to affected groups to promote appropriate behavior (preparation of ORS, healthcare seeking)

To support preparedness and inform mid- to long-term planning:

- Document groups at higher risk of death to inform prevention and control strategies at national and global levels
- Assess the impact of interventions at population-level
- Track progress towards the Global Roadmap targets

KEY MESSAGES

- Improving cholera surveillance (of cases and deaths) is critical to generate necessary data to inform evidence-based and effective cholera prevention and control strategies
- Health workers are at the frontline to improve cholera surveillance by detecting, documenting (in accordance with a standard dataset), and reporting all suspected cholera cases
- New GTFCC guidance for improved cholera surveillance is being prepared and we want your input!

