



GLOBAL TASK FORCE ON CHOLERA CONTROL

Joint Meeting of the Working Groups on Surveillance (Laboratory & Epidemiology)

15-17 April 2019 – Veyrier-du-lac, France

AGENDA

Objectives:

The meeting will be an opportunity to present an update on the GTFCC and the *Ending Cholera Roadmap* and in this context to discuss the engagement of the Surveillance Epidemiology and Laboratory WG in the implementation of the roadmap. Specifically, the proposed objectives of the meeting are to:

- Provide an update on the *Ending Cholera Roadmap* and Framework
- Review of what has been accomplished of intended work plan since last meeting
- Presentation and discussion of countries working to develop their cholera situational analyses (including hotspot identification), discuss and develop a standard set of recommendations and support services for country hotspot identification.
- Presentations and discussions on how countries are monitoring cholera disease incidence and what tools are used for national reporting. How can GTFCC support implementation of the national cholera control plans where the inclusion of a strong monitoring component for early detection of new outbreaks and assessing cholera control progress and success.
- Review opportunities and challenges in implementing molecular testing methods in countries and creating and maintaining global databases for cholera surveillance and Whole Genome Sequencing (WGS) data.
- Present for review, discussion, and next steps the concrete Epi and Lab offer of services to countries engaged in cholera control: diagnostic goods (RDTs, lab materials, sample and shipping materials), paper-based tools: guides, job aids, trainings, SOPs, Outbreak response – Field Manual and electronic-based tools: web and Cholera App. How to deliver them to countries requesting.
- For partners and countries to provide an update on activities:
 - MotoLab
 - Use of available lab data (RDT, culture, serology) to measure true country incidence, tools and methodology.
 - Modelling

Dates: 15 to 17 April 2019

Location: Veyrier du Lac, France

Venue: Fondation Merieux Conference Centre Les Pensières

DAY 1	
JOINT MEETING LABORATORY AND EPIDEMIOLOGY WORKING GROUP	
Time	
8.30 -9.00	Welcome coffee
9.00 -9.30	<p>INTRODUCTION</p> <p>Opening Remarks – <i>Marie Laure Quilici, Chair of the Laboratory WG and Francisco Luquero, Chair of the Epidemiology WG</i></p> <p>Introduction of participants and meeting objectives</p>
9.30 – 10.30	<p>GTFCC UPDATE</p> <ul style="list-style-type: none"> Ending Cholera, A Global Roadmap to 2030, <i>Dominique Legros, GTFCC Secretariat</i> National Cholera Control Plan framework and GTFCC services of support presentation, <i>Lorenzo Pezzoli</i> Update on Cholera Investment Case: Focus on Surveillance, <i>Melissa Ko</i> <p><i>Questions and answers</i></p>
10.30-10.50	<i>Coffee Break</i>
10.50 -13.00	<p>SUPPORTING COUNTRIES WITH CHOLERA SITUATIONAL ANALYSES</p> <p>Moderator: Lorenzo Pezzoli</p> <p>Objective: Develop a better understanding of how individual countries approach the analyses of cholera epidemiology to inform targeted interventions within their National Cholera Control Plan (NCP), including indicators and methodologies used and challenges encountered, as well as role of external partners in achieving a final outcome.</p> <p>Presentations (5-10 minutes):</p> <ul style="list-style-type: none"> Zimbabwe: Portia Manangazira Nigeria: Kelly Elimian India: Asish Mukhopadhyay Haiti: Patrick Dely Zambia: Nyambe Sinyange S. Sudan: Joseph Wamala Zanzibar: Ghirmay Andemichael <p><i>Discussion: how can GTFCC support countries with simple adaptable guidance and tools for performing situational analysis.</i></p>

13.00 -14.00 Lunch Break

14.00 – 16.00 **MONITORING THE IMPLEMENTATION OF THE CHOLERA ROADMAP**

Moderator: Lorenzo Pezzoli

Objective: Countries will describe the systems/platforms in place to acquire, transmit, and analyse cholera incidence data at the national level. WHO and partners will present the efforts to collect these data at the regional and HQ/global levels. .

- Presentations (5-10 minutes each)
 - S Sudan: Joseph Wamala
 - Bangladesh: Ashraf Kahn, ICDDR'B
 - Haiti: Patrick Dely
 - Nigeria: Nanpring Williams
 - WHO AFRO: Vincent Sodjinou (IDSR, DHS2)
 - WHO EMRO: Muhammed Tayyab
 - WCARO: Guillaume Constantin de Magny
 - WHO HQ IHM & IVB: David Olson (DHIS2, on behalf of Olivier Ronveaux) and Sebastien Antoni (XMART)
 - JHU: Andrew Azman (Hopkins on-line dashboard)

Discussion: The group discussion will focus on how countries can define and monitor successful progress in the cholera roadmap implementation, improve data flow from periphery to central level, and how to get data from existing systems into reporting on cholera roadmap progress and what primary platforms are in use.

15.40 – 16.00 Coffee Break

16.00 – 18.00 **MOLECULAR DIAGNOSTIC TESTING: ROLE IN NATIONAL CHOLERA CONTROL PROGRAM DESIGN, IMPLEMENTATION, AND MONITORING**

Moderator: Marie-Laure Quilici & Lorenzo Pezzoli

Molecular diagnostic testing, basics in technique and analyses (from rapid test to WGS, cost, limitations, use for immediate decision-making versus long-term transmission patterns, role vs, culture):

- General introduction to molecular techniques

- Nick Thompson, Sanger Institute:
- In country applications of molecular diagnostic testing
 - Bangladesh: Ashraf Kahn, ICDDR'B
 - India: Ankar Mutreja, Sanger
- RLDT
 - Subhra Chakraborty JHU
- Experience in Malawi with minION
 - Shirlee Wohl JHU

Review of global databases and analytic tools

- Sanger: Nick Thompson
- CDC: Maryann Turnsek
- Los Alamos National Laboratory: Darryl Domons

Discussion: Define immediate needs and utility of molecular testing at the country level for both initial description and/or monitoring of hotspots (NCPs), role in early outbreak detection and response, country-owned molecular diagnostic capacity (which tests, which analyses) for immediate and long-term decision-making, incorporating country molecular data (or shared live strains) into a global repository that is open access for countries and institutions.

DAY 2

SEPARATE LABORATORY AND EPIDEMIOLOGY WORKING GROUPS

LABORATORY WORKING GROUP

EPIDEMIOLOGY WORKING GROUP

9:00 – 1030

Morning session

Objectives of the session – *Marie Laure Quilici, Chair*

Review, finalize, validate Lab Offer of Services

Job aids:

- RDT use and interpretation /cookbook
- Sample Collection and Transportation within country
- Culture Isolation-identification cholera vibrio

9:00 – 10:30

Morning session

Objectives of the session- *Francisco Luquero, Chair*

Hotspot analyses, methodologies, country and global priority indicators: recommendations for tool(s) for countries Group Work

- Incidence, mortality, frequency, duration, special contexts and populations, minimum historical data needs, preferred administrative level, WaSH indicators

	<ul style="list-style-type: none"> • AMR testing • Strain Conditioning for International Transportation 	<ul style="list-style-type: none"> ○ Definition of Elimination
10.30 – 11.00	<i>Coffee Break</i>	
11.00-13.00	Continue Morning Discussions	Continue Morning Discussions (switch groups) Come together (the leader of the group exchange and receive)
13.00-14.00	<i>Lunch</i>	<i>Lunch</i>
14.00-18.00	Afternoon session <ul style="list-style-type: none"> • Guidance on EQA for national labs • PCR: use of appropriate techniques and related guidance for countries, <ul style="list-style-type: none"> ○ End-point vs. Rapid testing PCR • Prequalification of RDTs: update and new requirements <ul style="list-style-type: none"> ○ Experience in Bangladesh ○ Anne-Laure (regulatory aspects) Recommendation on global database Research agenda	Afternoon session <ul style="list-style-type: none"> • Outbreak Control Teams <ul style="list-style-type: none"> ○ Experiences (2 slides each): <ul style="list-style-type: none"> ▪ Haiti: Elie Celestin ▪ Nigeria: Nanpring Williams ▪ Zambia : Nyambe Sinyange ▪ Zimbabwe : Portia Manangazira ▪ UNICEF experience: Monica Ramos ▪ EMRO experience (Yemen, Somalia) ○ How can GTFCC provide support to countries for developing/upgrading outbreak response teams Research agenda
DAY 3 JOINT SESSION LABORATORY AND EPIDEMIOLOGY WORKING GROUP		
9.00 -11.00	Moderator: Dominique Legros <ul style="list-style-type: none"> • Reporting outcomes of yesterday’s individual WG discussions <ul style="list-style-type: none"> ○ Lab WG job aids, support to countries with PCR, EQA (Marie-Laure Quilici) ○ Epi WG tool and methodologies for hotspot identification for NCP, define standards for RRT: composition, objectives, tools (Francisco Luquero) • Research Agenda (Marie-Laure Quilici + Francisco Luquero) 	

11.00-11.30	<i>Coffee Break</i>
11.30-13.00	Moderator: David Olson <ul style="list-style-type: none">• Partner Updates<ul style="list-style-type: none">○ Use of RDT and lab data to determine true cholera incidence-Yemen (Anton Camacho)○ Sero-surveillance-Bangladesh (Andrew Azman)○ Modeling work at LSHTM (Anton Camacho in replacement of Sebastian Funk)○ Modeling work at EPLF (Joseph Lemaitre)○ Moto-lab-Haiti (Severine Danmadji)○ IVI update (Se Eun Park)○ CDC (Eric Mintz)○ IPD (Guillaume Constantin de Magny)○ Phone application (Chesco Nogareda)○ Fondation Mérieux, GTFCC Website (Valentina Picot)
13.00-14.00	<i>Lunch</i>
14.00-16.00	<ul style="list-style-type: none">• Summary of decisions (Lorenzo Pezzoli)• Next Steps (Marie-Laure Quilici + Francisco Luquero)
END OF MEETING	