



GLOBAL TASK FORCE ON  
**CHOLERA CONTROL**

**GTFCC COUNTRY SUPPORT PLATFORM (CSP)**

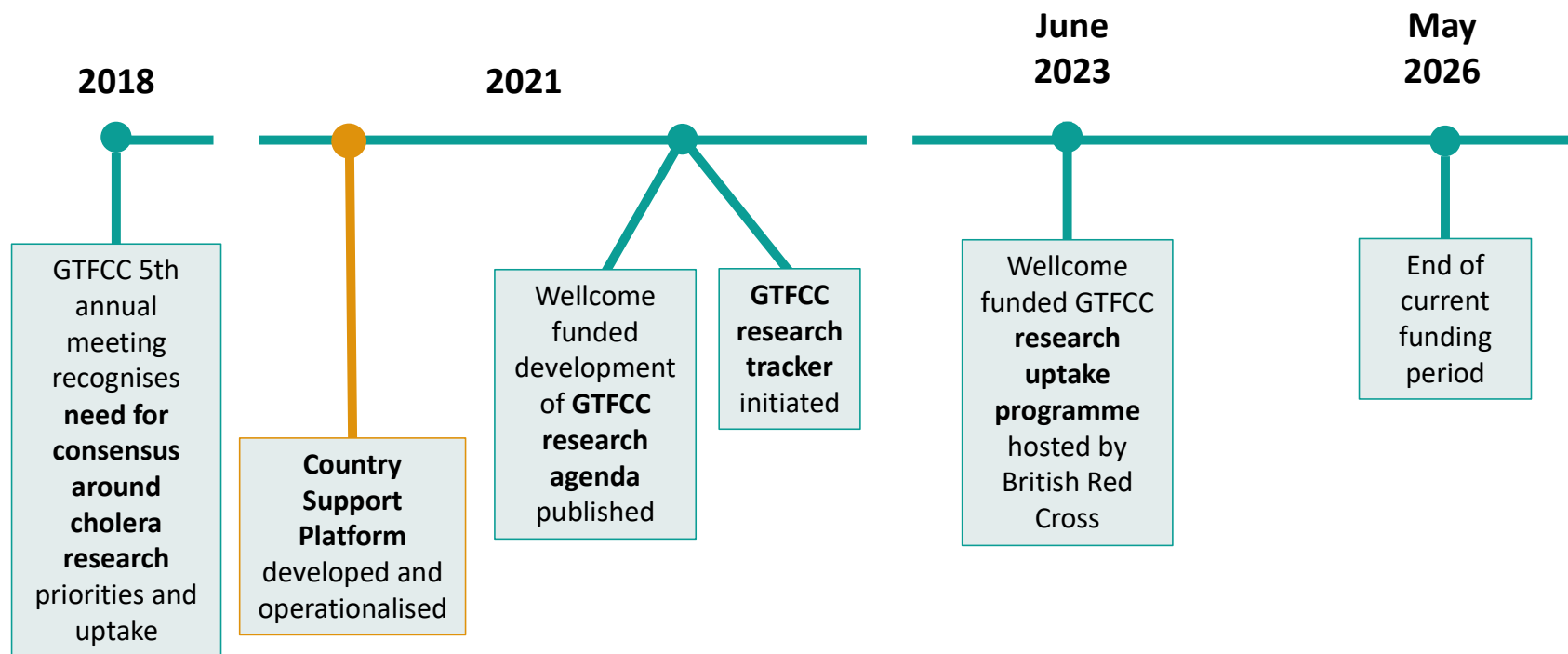
**RESEARCH WORKSTREAM PRESENTATION**

**GTFCC WASH Working Group  
Annual meeting  
June 17<sup>th</sup>, 2024**

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## GTFCC RESEARCH TIMELINE



# GTFCC GLOBAL RESEARCH AGENDA 2021



OVERVIEW OF

## CHOLERA ROADMAP RESEARCH AGENDA

The Cholera Roadmap Research Agenda identifies knowledge gaps most important to cholera experts and stakeholders and establishes a prioritized list of research questions that, when answered, will have a significant impact on achieving the Cholera Roadmap goals. Together, the cholera control community can align our efforts and resources to answer the most pressing cholera research questions of our time and encourage discovery research and innovation.

JANUARY 2021

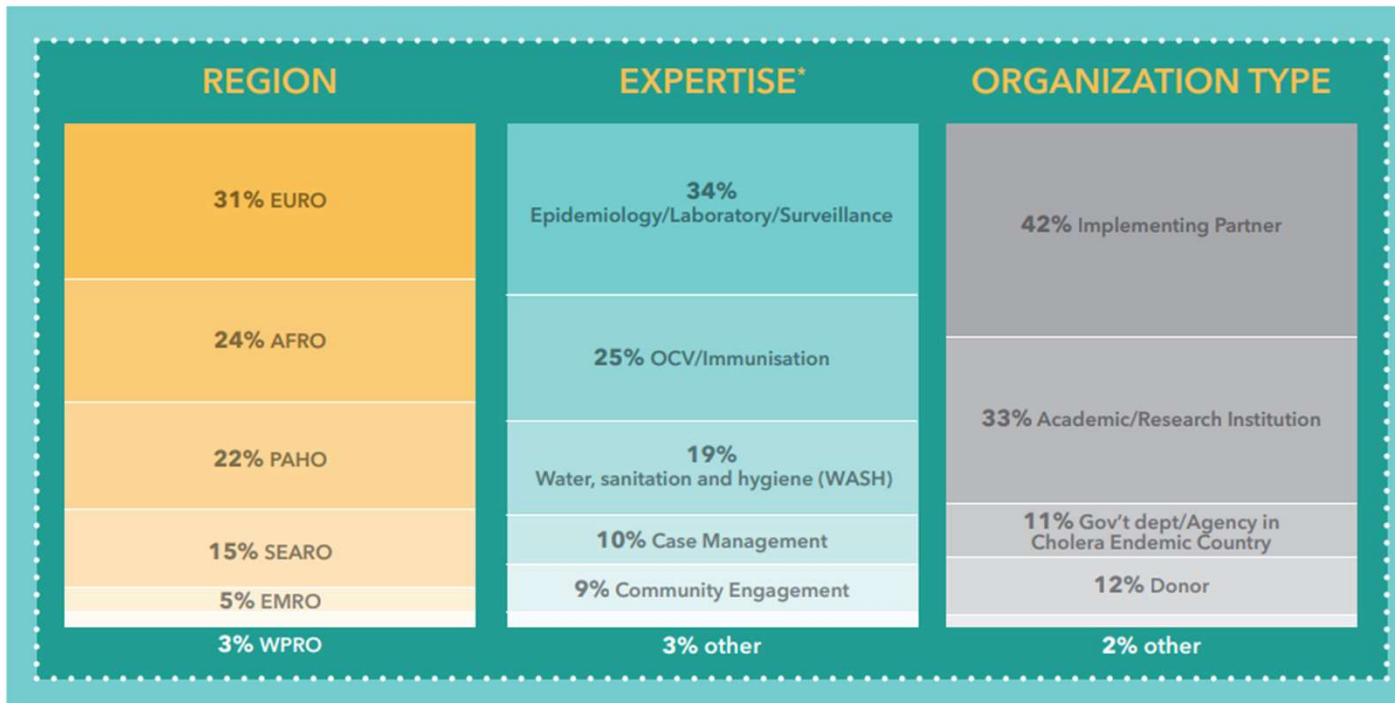
The Cholera Roadmap Research Agenda aims to accelerate progress towards the Cholera Roadmap goals by assisting:

- **international and national research donor agencies** to identify research projects that will have the most impact on practices and policy;
- **researchers** to prioritize the design and execution of research activities that will lead to evidence and implementable interventions with the most impact;
- **programme implementers** working on implementing the Cholera Roadmap to collaborate with researchers and to use the research results to address implementation barriers and update their operational plans;
- **policy-makers** to incorporate relevant research goals into their NCPs and to use the research results to strengthen cholera policies and strategies.





## GTFFC GLOBAL RESEARCH AGENDA 2021



### Completed 2019-2021

177 experts engaged to prioritise research questions






#### Limitations:

- Low government representation from cholera affected countries
- More Epi/Lab and OCV experts than other pillars






∴ \* Given that cholera experts often have overlapping expertise and experiences (e.g., epidemiology is often a complementary expertise to other Roadmap pillar areas), the survey respondents were allowed to choose up to two areas of expertise.

How | Where | When to use existing tools and strategies for cholera control most effectively






## Case Management

Rank Within Pillar	Research Question
1 	What are the barriers and enablers for integrating cholera treatment into community case management by community health workers?
2 	What effect does treatment with antibiotics have on cholera transmission?
3 	What is the optimal treatment schedule for antibiotic prophylaxis given to household contacts of cholera patients and does this have an effect on the magnitude, transmission and secondary attack rate of cholera outbreaks?
4 	What are the common cholera treatment complications in vulnerable populations (for example: pregnant women, the elderly, those with severe acute malnutrition)?
5 	Would rehydration solution for malnutrition (ReSoMal) formulated with higher sodium, or standard oral rehydration solution containing high potassium, result in lower mortality or morbidity, compared to the standard WHO rehydration solution, in children with severe acute malnutrition?

## Oral Cholera Vaccine






Rank Within Pillar	Research Question
1 	What are the optimal oral cholera vaccine schedules (number of doses and dosing intervals) to enhance immune response and clinical effectiveness in children 1 to 5 years of age?
2 	What are potential delivery strategies to optimize oral cholera vaccine coverage in hard-to-reach populations (including during humanitarian emergencies and areas of insecurity)?
3 	What is the optimal number of doses of oral cholera vaccine to be used for follow-up campaigns in communities previously vaccinated with a two-dose schedule?
4 	Can the impact of oral cholera vaccine on disease transmission, morbidity and mortality be maximized by targeting specific populations and/or targeted delivery strategies?
5 	What impact does the timing of oral cholera vaccine use have on prevention and control of an outbreak?

## Epidemiology and Laboratory (Surveillance)

Rank Within Pillar	Research Question
1 	What is the impact of early diagnosis of cholera using a rapid diagnostic test at the point of care in a community setting compared with testing only in health facilities?
2 	How can we improve and fine-tune hotspot definition and identification at a district and sub-district level?
3 	What are the optimal designs for surveillance systems (e.g., indicator-based, event-based, community-based, environmental, sentinel site surveillance) to monitor progress of the Cholera Roadmap?
4 	What are the optimal surveillance tools (e.g., laboratory methods, case definitions, etc.) to monitor progress of the Cholera Roadmap?
5 	How can combined epidemiological and genomic analysis of <i>V. cholerae</i> be used to better understand transmission dynamics and inform epidemiological models?

Top 5  
per  
pillar

## Water, Sanitation and Hygiene

Rank Within Pillar	Research Question
1 	What levels of coverage for relevant water, sanitation and hygiene interventions is required in cholera hotspots to control and ultimately eliminate the risk of cholera?
2 	What are the most essential (or what is the minimum set of) infection prevention and control (IPC) interventions in cholera treatment facilities and oral rehydration points to reduce risk of transmission within these facilities?
3 	Is improved access to safe water (e.g., water points and distribution networks) effective in controlling and preventing cholera outbreaks?
4 	How can "design thinking" be used to improve the delivery and uptake of water, sanitation and hygiene interventions? Design thinking focuses on understanding the needs of people who will use the intervention and working with them to improve it.
5 	What are the factors and determinants that lead to sustainable investments in water, sanitation and hygiene at the country level?

**Discovery research**

New tools and databases  
Longer time to impact

**Novel and innovative  
diagnostics**

**New and improved  
vaccines**

**Coordinated genomics  
database**

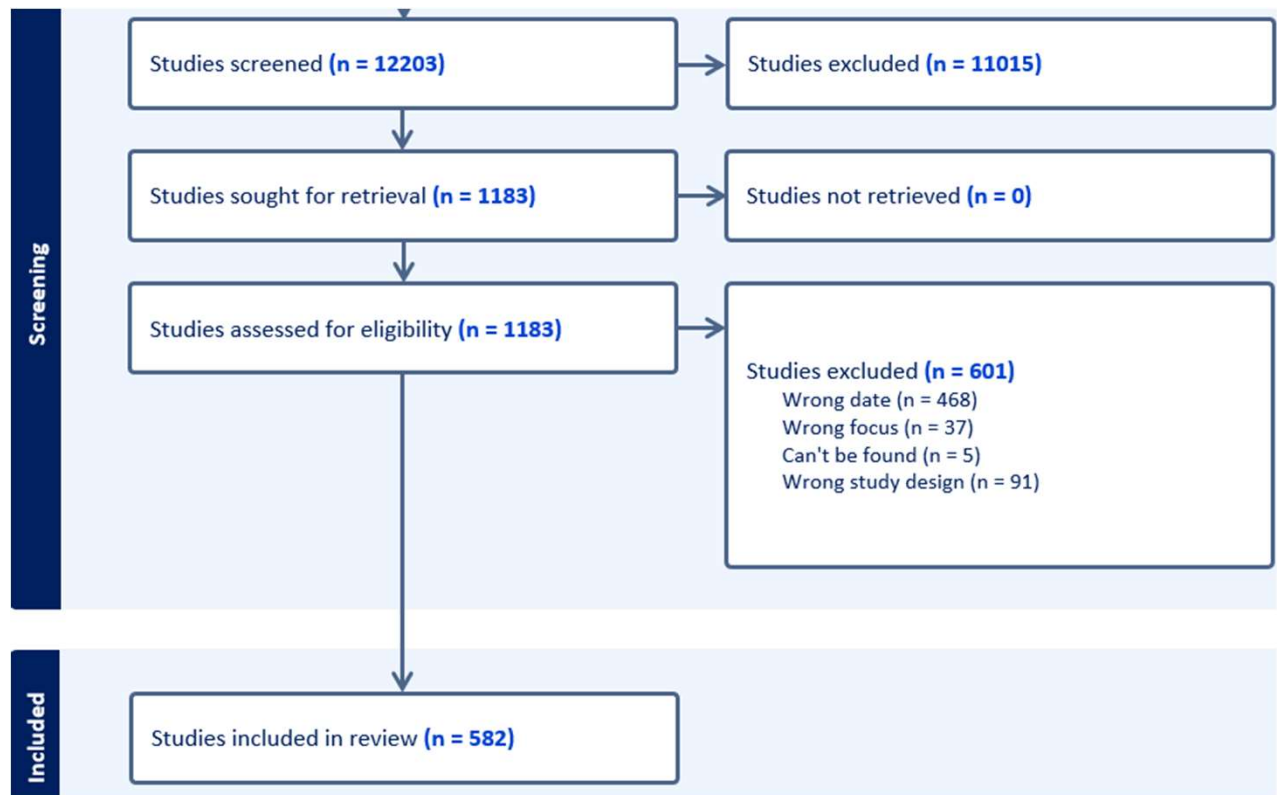
## Research agenda progress 2017 – 2024: A scoping review



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## Next steps and opportunities to engage

### GTFCC General Assembly Side Event – Friday 10:30 – 12pm

- Research agenda 2025 - 2030
- Role of GTFCC in supporting countries with research
- Building the cholera research community

### For the WASH WG

- Review draft of scoping review Sept – Oct 2024
- Discuss next steps for updating the research agenda
- Contribute to development of GTFCC research agenda 2025 – 2030

### 1st ANNUAL GTFCC RESEARCH MEETING Mombasa 1<sup>st</sup> and 2<sup>nd</sup> October

#### Option for Hybrid participation

- Representation from WASH pillar

**Get  
Involved!**

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