Update on the GTFCC cholera database

Elizabeth C. Lee for the JHU Cholera Dynamics Team

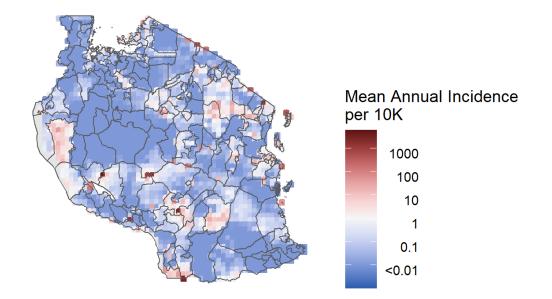
GTFCC Annual Meeting - October 20, 2020





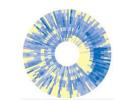
Monitoring progress towards Roadmap goals

- Map the geographic burden of disease
- Monitor key GTFCC indicators and hotspots over time
- Track information on WASH and vaccination interventions

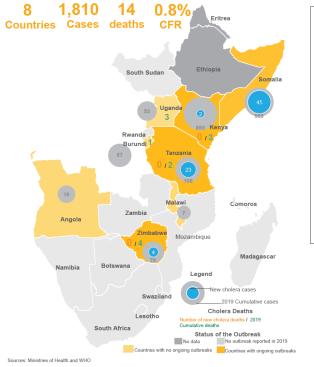


Tanzania, 2015-2019 Preliminary estimates 20 km x 20 km

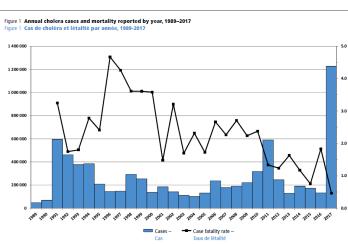




Data come in many shapes and sizes









Published Date: 2019-05-09 12:55:05 Subject: PRO/EDR> Cholera, diarrhea & dysentery update (12): Africa, Asia Archive Number: 20190509.6460944

CHOLERA, DIARRHEA AND DYSENTERY UPDATE (12): AFRICA, ASIA

A PromeD-mail post http://www.promedmail.org ProMED-mail is a program of the International Society for Infectious Disease http://www.isid.org

In this update: Africa

Asia

[1] Cholera - Somalia: WHO
 [2] Cholera - Zimbabwe
 [3] Cholera - Mozambique (northern)
 [4] Cholera - Kenya (Mandera County)
 [5] Cholera - Kenya (Embu County)

[6] Cholera - Nepal (Kathmandu)

Africa

[1] Cholera - Somalia: WHO

Date: Tue 7 May 2019

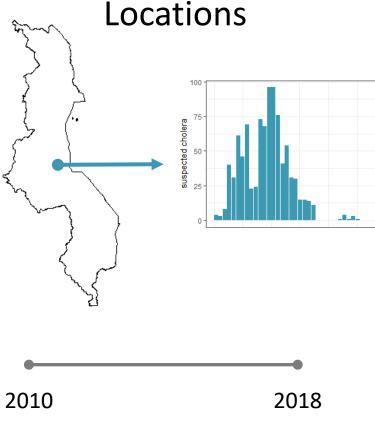
Source: WHO Emergencies preparedness, response, Disease Outbreak News (DONs) [edited] http://www.emro.who.int/pandemic-epidemic-diseases/cholera/outbreak-update-cholera-in-somalia-28-april-2019.htm

Outbreak update - Cholera in Somalia, 28 Apr 2019

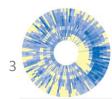
The Ministry of Health (MoH) of Somalia has announced 36 new suspected cases of cholera, with no deaths, for epidemiological w reported between epidemiological weeks 1 and 7 due to closure of the main cholera treatment center, from which data is collecter the beginning of this outtreak in December 2017.

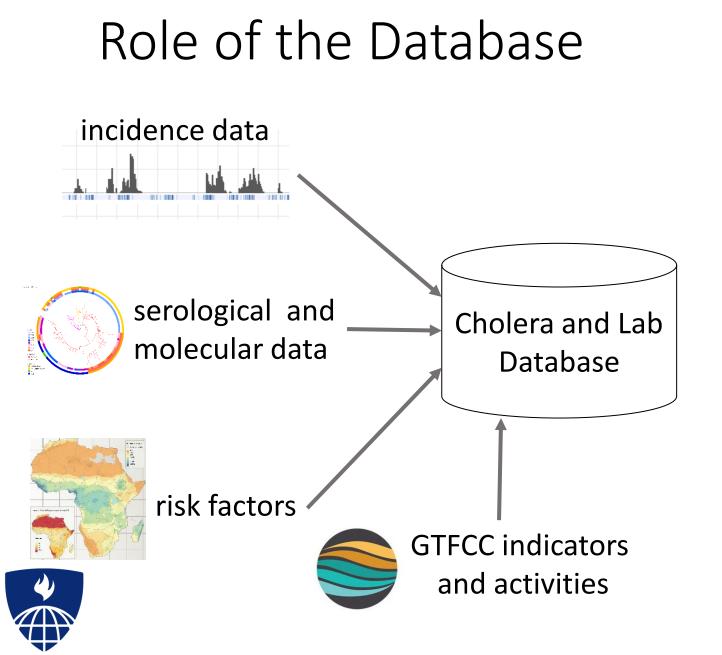
During the reporting period, cases occurred in 11 out of 17 districts in Banadir region, the worst affected district are Hodan (728) the cases (24) are children below 5 years of age.

WHO, Mey, and partners have contained the cholera outbrasis in the districts of Jubaland, Hirshabelle, and South West states folli (OCV) campaigns and other health interventions. However, active transmission is ongoing in 11 districts in Banadir -- Darkenly, D Bondere, Kahay, Karanv, Waber, and Wata nabada).

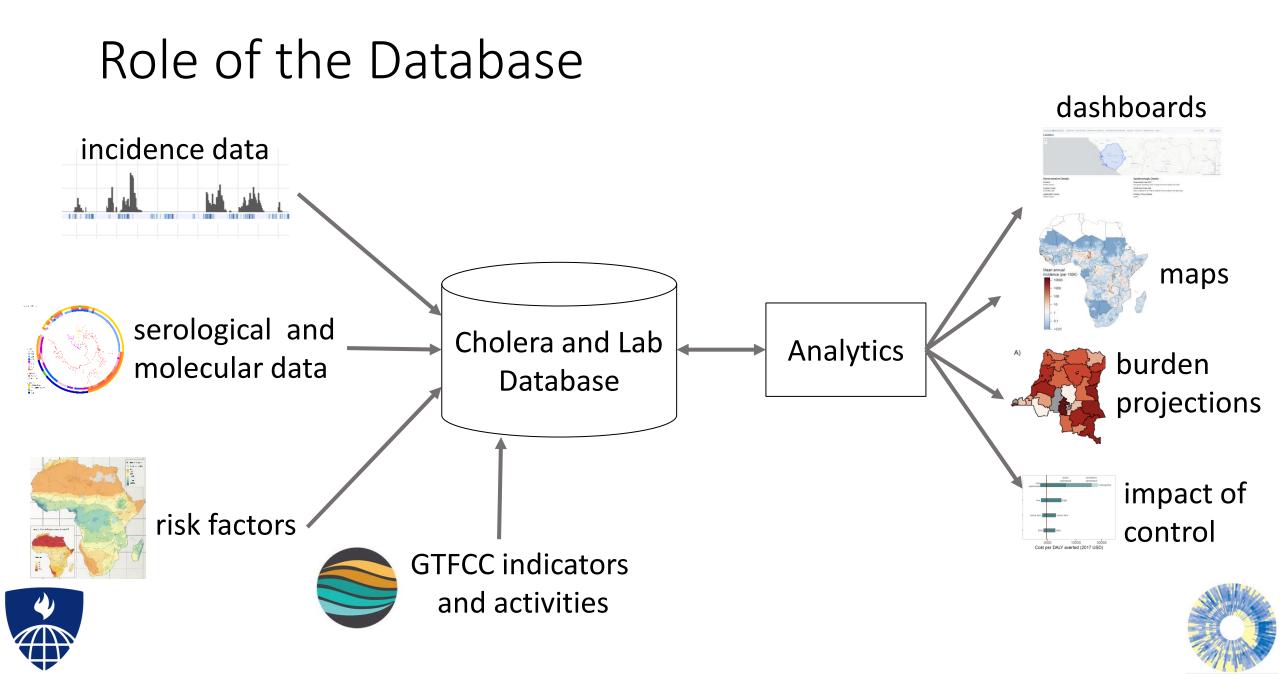


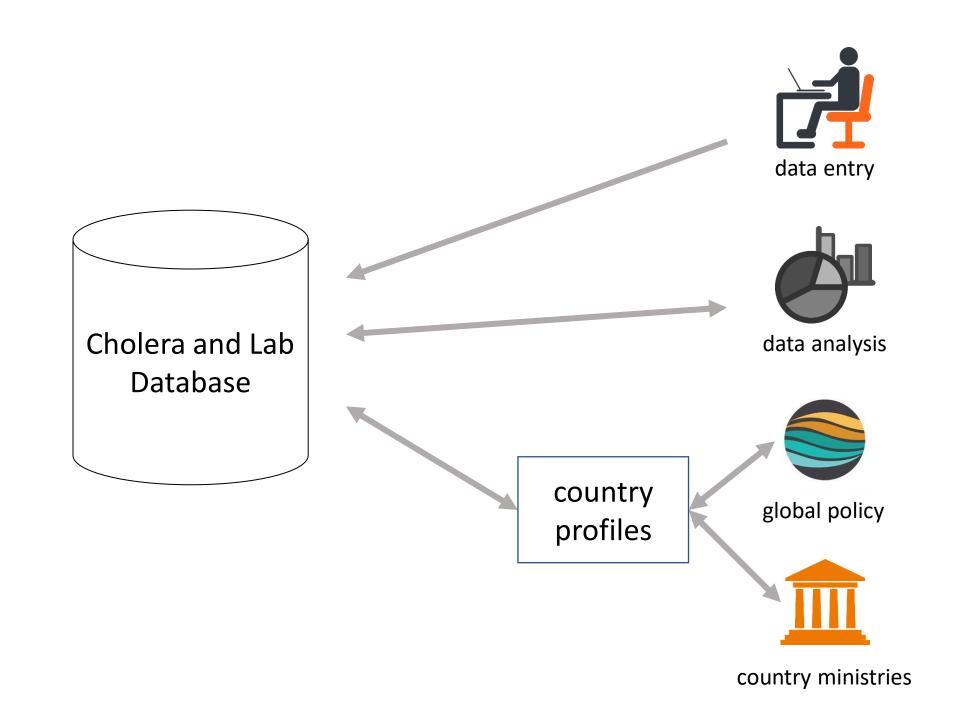




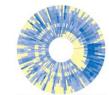








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Back-end for data entry and analysis











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 $\leftarrow \ \ \, \rightarrow \ \ \, \mathbb{C} \qquad \text{ a cholera-taxonomy.middle-distance.com/observation_collections}$

GLOBAL TASK FORCE ON Country Search

Go Go to OC UID

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Dashboard Overview Data Observation Collections Add Observation Collection Workspace Interest List Locations 🔻

Observation Collections

CHOLERA DYNAMICS

	Location	Observation Count	Observation Range	Created Date	Updated Date	WHO Region
1127	SEAR::BGD	174	2017-06-26 - 2020-10-04	10/15/2020	10/15/2020	
1126	AFR::BEN	o	14) (1)	10/13/2020	10/13/2020	Application Owner
1125	AFR::ETH	27618	2019-06-06 - 2020-05-14	10/08/2020	10/16/2020	
1124	AFR::ETH	835855	2015-09-06 - 2019-11-21	10/08/2020	10/16/2020	Minimum # of observations
1123	AFR::NGA	30	2015-01-01 - 2017-09-12	10/07/2020	10/07/2020	Maximum # of observations
1122	AFR::NGA::Borno	178	2017-03-01 - 2017-09-12	10/06/2020	10/07/2020	
1121	AMR::HTI	228	2010-01-01 - 2017-12-31	09/23/2020	10/07/2020	Earliest observation
1120	AFR::MWI	12	2017-03-11 - 2017-04-23	09/22/2020	10/07/2020	
1119	AFR::MWI	51	2017-01-02 - 2017-11-19	09/22/2020	09/22/2020	Latest observation
1118	AFR::MWI	51	2017-11-20 - 2017-12-18	09/22/2020	09/22/2020	
1117	AFR::ZMB	83	2017-09-04 - 2017-11-07	09/22/2020	09/22/2020	Sort Order
1116	AFR::CMR	377	2019-12-30 - 2020-09-27	09/18/2020	10/13/2020	Recent Observation Collections
1115	AFR::MOZ	13	2020-01-27 - 2020-09-06	09/15/2020	09/18/2020	Status
1114	AFR::BDI	2572	2019-12-30 - 2020-09-27	09/14/2020	10/15/2020	Options
1113	AFR::AGO	55	2016-12-11 - 2017-06-04	09/04/2020	09/04/2020	Display Source
21112	EMR::YEM	2337	2018-12-31 - 2020-08-16	09/02/2020	09/11/2020	Display Contact
1111	AFR::KEN	588	2020-01-01 - 2020-08-26	08/31/2020	09/01/2020	Update Clear Filte
21110	AFR::TZA	240	2015-08-17 - 2016-11-13	08/28/2020	09/03/2020	là.
1109	AFR::TZA	215	2016-10-03 - 2016-12-11	08/28/2020	08/28/2020	
1108	AFR::TZA	234	2015-08-01 - 2016-12-12	08/26/2020	08/26/2020	
1107	EMR::SDN	85	2019-08-28 - 2019-11-07	08/25/2020	08/25/2020	
1106	AMR::HTI	1	2010-10-01 - 2018-02-28	08/25/2020	08/25/2020	
1105	AFR::MOZ	1	2017-01-01 - 2018-04-08	08/25/2020	08/25/2020	
1104	AFR::MWI	1	2017-11-01 - 2018-04-30	08/25/2020	08/25/2020	
1103	AFR::ZWE	1	2018-01-01 - 2018-04-30	08/21/2020	08/21/2020	
1102	AFR::ZMB	1	2017-10-01 - 2018-04-30	08/21/2020	08/21/2020	
21101	AFR::AGO	1	2017-12-01 - 2018-03-31	08/21/2020	08/21/2020	
	1PD-00D	2		-0//	-0//	

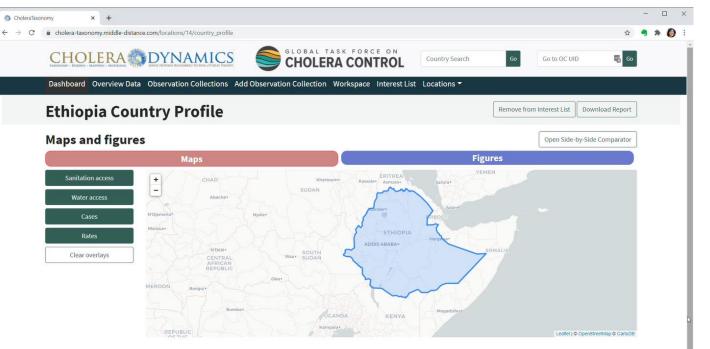


First look at the country profiles









National Cholera Control Plan

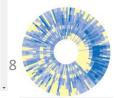
INCEPTION	DEVELOPMENT	IMPLEMENTATION	MONITORING & REPORTING
Preparatory phases	For each of the 5 pillars	For each of the 5 pillars	For each of the 5 pillars
 Declare country commitment Identify & prioritize hotspots 	 Formulate & prioritize activities Develop operational plans & associated budgets 	 Prioritized activities Established timelines 	Conduct quarterly monitoring of indicators across each pillar
 Conduct situational analysis Define leadership and & coordination mechanism 	 Develop a monitoring & evaluation framework, including definition of indicators & milestones 	Available budget	 Provide an annual report of progress against targets and indicators Prioritize activities for next period
Formulate goal			

Vaccination Campaigns

TARGET AREAS	DATES TARGET POPULATION		DOSES DISTRIBUTED	SURVEY COVERAGE
10 selected districts of Shashamene rural district	02-02-2020 - 10-02-2020	62,000	47,137	
10 selected districts of Shashamene rural district	02-02-2020 - 10-02-2020	62,000	40,707	

Key Summary Statistics

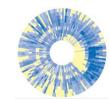
Most recent observation with suspected cases		Most recent observation with confirmed cases		Most recer	Most recent Observation Collection	
Location	AFR::ETH::SNNP::Gedeo	Location	AFR::ETH::Somali::Afder	ID	21125	
Start Date	2020-05-14	Start Date	2020-04-06	Source	Ethiopian Public Health Institute	
End Date	2020-05-14	End Date	2020-04-06	Contact	Elizabeth Lee	



Key database features

- Centralized repository for cholera surveillance data
- Flexible structure supports any kind of data that can be linked to locations and time periods (e.g., incidence, deaths, hotspots from situational analysis, documents, OCV use, seroincidence data)
- Hosts raw data and visualizations of modeled output
- Development of country and regional profiles that summarize key cholera data and risk factors

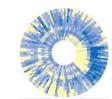




Future of the GTFCC cholera database

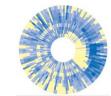
- Streamlined management and entry of cholera incidence data reported to the GTFCC Secretariat
- Generation of country profiles for all cholera-affected countries contributing data to the database
- Expansion of country profiles to wider regions
- Regular updates to burden maps and other outputs
- Linkage to serological and molecular data and OCV campaigns





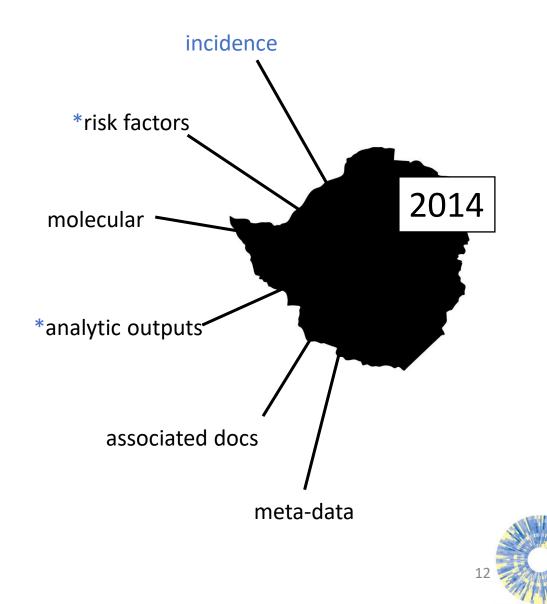
Backup Slides





Organizing principles

- All data is indexed by location periods.
 - A location (which may contain other locations)
 - A defined period of time
- Database is "weakly typed"
 - Few restrictions on the types of data that can be associated with location periods.
- Flexible access





Data are linked to locations and time periods

