Update
on the GTFCC cholera database

Elizabeth C. Lee for the JHU Cholera Dynamics Team

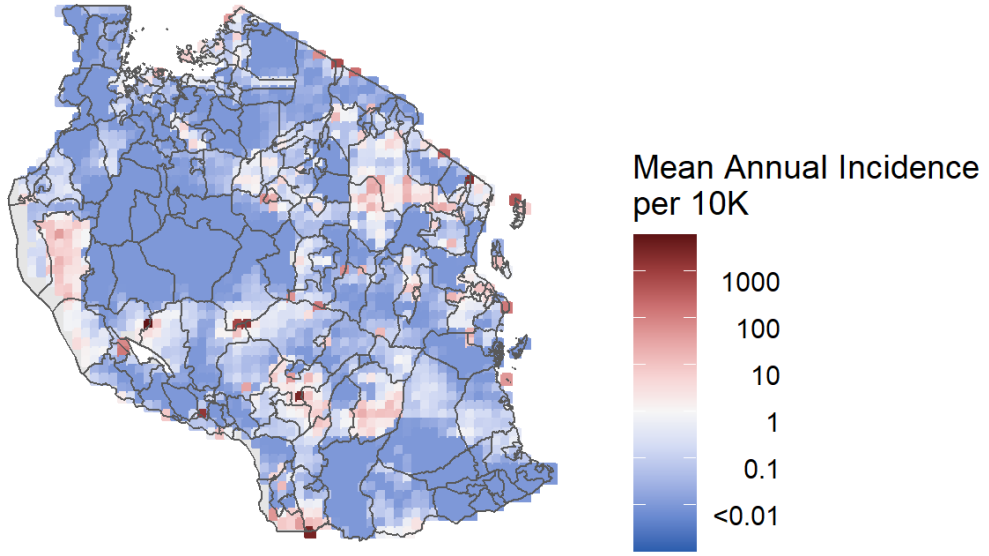
GTFCC Annual Meeting – June 8, 2021

JOHNS HOPKINS
BLOOMBERG SCHOOL
of PUBLIC HEALTH

CHOLERA DYNAMICS
TAXONOMY ~ BURDEN ~ MAPPING ~ MODELING
JOHNS HOPKINS BLOOMBERG SCHOOL of PUBLIC HEALTH
iddynamics.jhsph.edu/cholera

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

Key database features

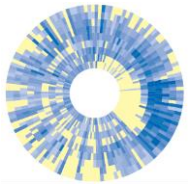
- Centralized repository for cholera surveillance data
- Flexible structure supports any kind of data that can be linked to locations and time periods (e.g., incidence, deaths, hotspots from situational analysis, documents, OCV use, seroincidence data)
- Hosts raw data and visualizations of modeled output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

Country profiles: updates since October

Future plans

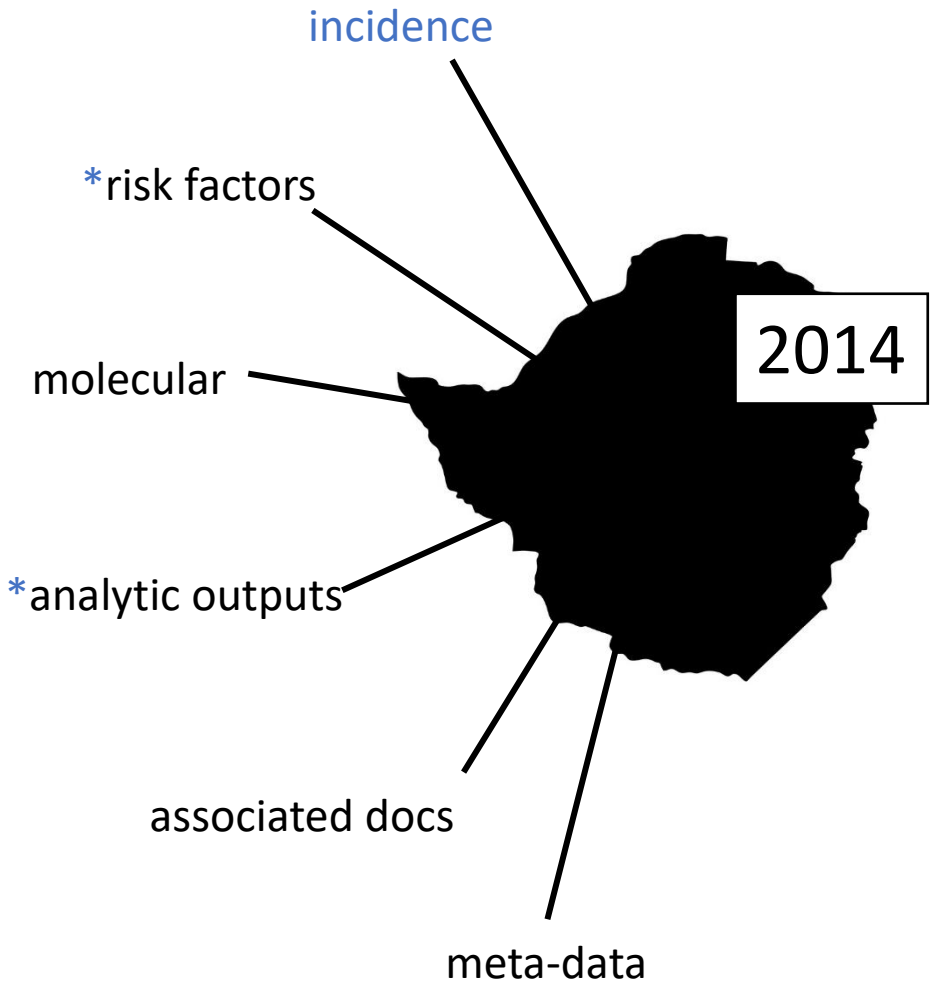
- Expand features related to “unified data sets,” including automated cleaning of key datasets and display of epidemic curve figures
- Improve visualizations and layout for more intuitive design
- Refine printable version of country profile
- Pilot and provide broader access to MOH and GTFCC partners towards the end of the year

Backup Slides

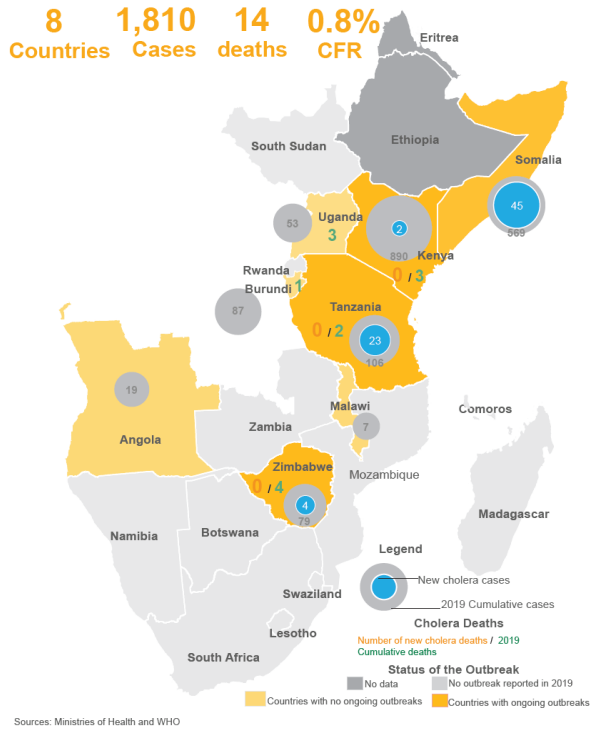


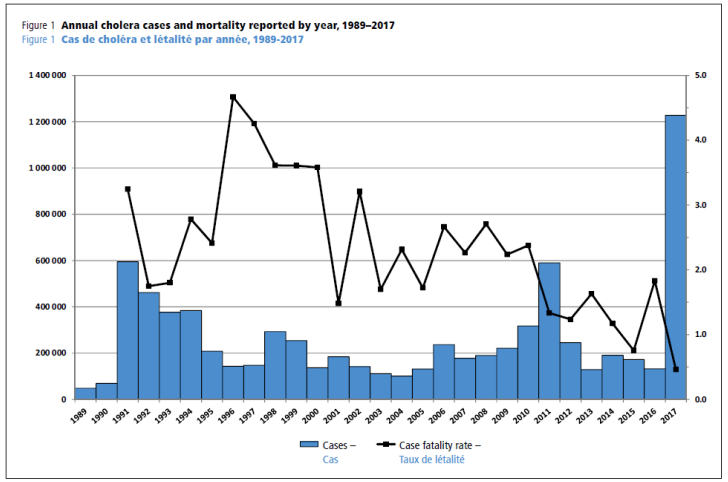
Organizing principles

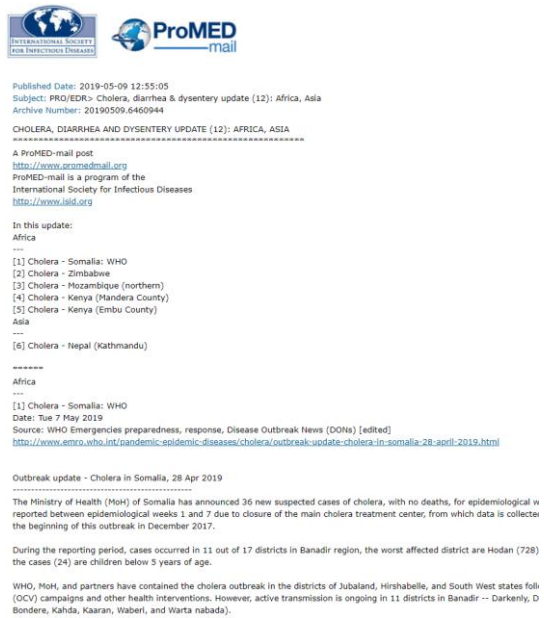
- All data is indexed by location periods.
  - A location (which may contain other locations)
  - A defined period of time
- Database is “weakly typed”
  - Few restrictions on the types of data that can be associated with location periods.
- Flexible access



Data come in many shapes and sizes



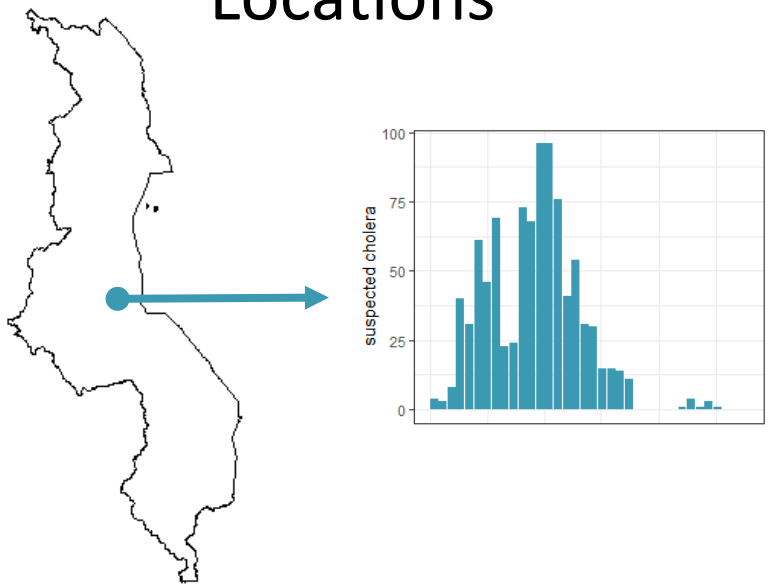




E6 | 0

	A	B	C	D	E
1	Country	Week 1		Week 2	
2		Cases	Deaths	Cases	Deaths
3	Mozambique	0	0	0	0
4	Kenya			115	2
5	Somalia	87	0	87	0

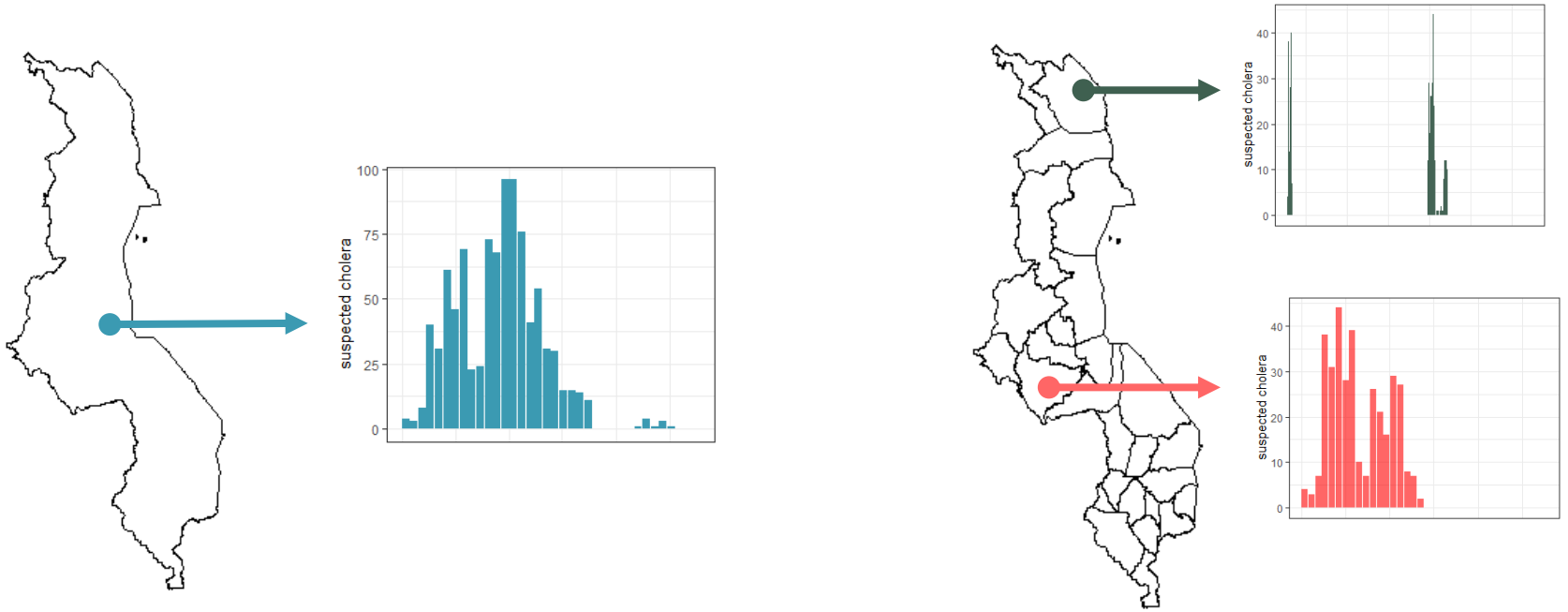
Locations



Time Periods

Data are linked to locations and time periods

Locations



Time Periods

2010 2018

2016 2018