

# Update on Cholera Database

Andrew Azman

**with**

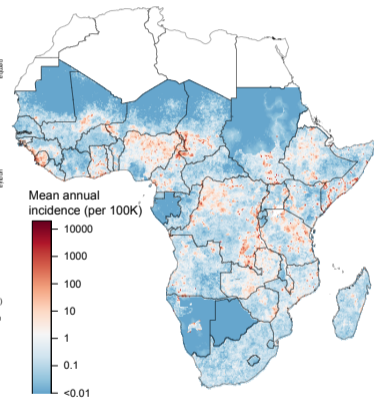
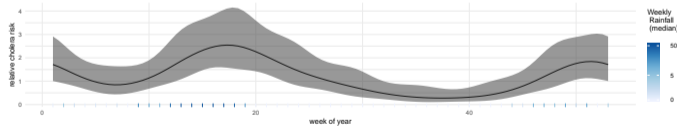
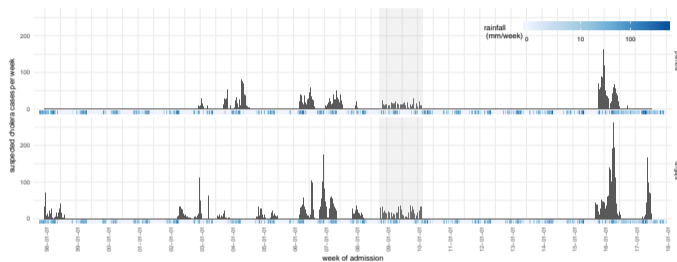
*Elizabeth Lee, Heather McKay, Josh Kaminsky, Justin Lessler and many others*

GTFCC Epi/Surveillance Working Group :: 15 April 2019





# Describing Cholera





## Where can cholera data come from?

- Ministries of Health (sitreps, linelists, DHIS, press releases etc)
- In-depth research studies
- Media
- Regional summaries
- Reports from WHO, UNICEF and others (with MoHs)

# Data in many shapes and sizes



## II. SITUATION EPIDEMIOLOGIQUE

Tableau 1 : Résumé de la situation épidémiologique, du 18 au 29 Août 2018

	Régions en épidémie		
	Centre	Nord	Total
<b>Cas</b>			
Nouveaux cas suspects	5	33	38
Cas suspects cumulés (du 7/07 au 29 /08/2018)	72	163	235
<b>Décès</b>			
Nouveau décès	0	2	2
Décès cumulés (du 7/07 au 29 /08/2018)	1	16	17
• Cumul décès hospitalier	1	9	10
• Cumul décès communautaire	0	7	7
<b>Laboratoire</b>			
Nouveaux échantillons mis en culture	2	4	6
Nouveaux échantillons positifs	0	3	3
Nb total d'échantillons mis en culture	61	30	91
Cultures positives	4	19	23

### 02 Régions en épidémie

- Région du Nord : 8/15 DS en épidémie soit 53,3% des DS
- Région du Centre : 3/30 DS en épidémie soit 10% des DS

Published Date: 2010-08-25 14:00:04

Subject: PRO/EDR> Cholera, diarrhea & dysentery update 2010 (18)

Archive Number: 20100825.2993

CHOLERA, DIARRHEA AND DYSENTERY UPDATE 2010 (18)

A ProMED-mail post:

<<http://www.promedmail.org>>

ProMED-mail is a program of the

International Society for Infectious Diseases

<<http://www.isid.org>>

In this update:

Asia

[1] Cholera - Pakistan (Baluchistan)

[2] Cholera, diarrhea - India (Kashmir)

[3] Cholera - China (Hong Kong) ex Indonesia

Africa

[4] Cholera - Uganda (Butaleja)

[5] Cholera - Nigeria (northern states)

[6] Cholera - Nigeria (Adamawa)

[7] Cholera - Nigeria, Cameroon, Niger

[8] Cholera - Kenya (Nyanza)

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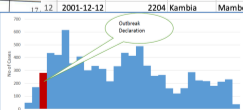
[1] Cholera - Pakistan (Baluchistan)

Date: Tue 24 Aug 2010

From: prom@isid.org

Tableau 2 : Taux d'attaque et de létalité par District en épidémie au Cameroun, 29 Août 2018

REGION	DISTRICT	Population	Nbre de cas suspects	Nbre de cas confirmés	Nombre de décès	Tx d' (10000)
CENTRE	CITÉ-VERTE	407390	6	2	0	1,5
	DJOUNGOLO	879470	20	1	1	2,3
	MFOU	103427	4	1	0	3,8
	BIBEMI	158087	11	2	3	7,0
NORD	GAROUA II	307402	12	2	0	3,5
	GASCHIGA	131915	23	2	6	17,2
	GOLOMBE	65286	48	2	4	7,3
	GUIDER	241236	4	2	1	1,6
	MAYO OULO	137214	9	2	0	6,6
TOTAL	NGONG	248926	3	2	0	1,2
	PITOA	156191	52	5	2	37,8
TOTAL		2836544	192	23	17	6,7



- Metadata
  - data source and access information
  - case definitions
  - context
  - molecular details (when available)
- Observations
  - Location (enclosing polygon or point)
  - Timing (allowing for censoring)
  - Number of cases/deaths (censoring possible)
  - Demographics
  - Other user defined fields

## Observation Collections

Note: When multiple pages of results are present column sorting only affects the current page.

UID	Status	Location	Observation Count	Observation Range	Contact	Application Owner	Created Date	Updated Date
1	In Progress	EUR::GBR::ENG	333	1854-07-08 - 1854-08-15	Carla Zelaya		01/25/2019	02/22/2019
3	Initialized	EMR::YEM	31	1990-09-08 - 1990-11-30	Andrew Azman		01/25/2019	02/22/2019
4	Initial Data Entry Complete	EMR::YEM	7	1990-09-08 - 1990-11-30	Andrew Azman		01/25/2019	02/22/2019
5	Initial Data Entry Complete	AFR::CMR::CM-ES::Bertoua	15	2011-10-08 - 2012-01-20	Sean Moore		01/25/2019	02/22/2019
6	In Progress	AFR::TCD	6344	2010-01-04 - 2012-01-01	Sean Moore		01/25/2019	02/22/2019
7	Initial Data Entry Complete	AFR::TCD	12168	2006-01-02 - 2009-12-27	Sean Moore		01/25/2019	02/22/2019
10	In Progress	AFR::NGA::NG-BA	4	1996-04-01 - 1996-08-11	Sean Moore		01/25/2019	02/22/2019
11	In Progress	AFR::NGA::NG-KN	435	1995-12-03 - 1996-03-16	Sean Moore		01/25/2019	02/22/2019
12	Initial Data Entry Complete	AFR::NGA::NG-KN	29	2003-01-01 - 2004-12-03	Sean Moore		01/25/2019	02/22/2019

### Filters

WHO Region

Application Owner

Contact

Minimum # of observations

Maximum # of observations

Earliest observation

Latest observation

Sort Order

## Location:



## Administrative Details

### Contact

Andrew Azman

### Contact Email

azman@jhu.edu

### Application Owner

Andrew Azman

### Public?

Yes

### IRB Protocol

### Owner

Dr Amara Jambai

### Owner Email

amarajambai@yahoo.com

### MOU DSA Notes

## Epidemiologic Details

### Suspected Case Def

Any person presenting with or dying from acute watery diarrhoea

### Confirmed Case Def

Vibrio cholerae O1 or O139 is isolated from any patient with diarrhoea

### Primary Time Criteria

CLINIC

### Strains

### Humanitarian Crisis?

No

### Reactive vaccination?

No

### Previous vaccination?

No

## Notes

### Observation Properties

Start

2012-01-07

End

2013-05-10

Suspected Cases

45377

### Observation Fields

[TL](#)
[TR](#)
[Primary](#)
[Phantom](#)
[sCh](#)
[Chieftdom\\_code](#)

### Custom Observation Fields

- Chieftdom\_code: Chieftdom pcode for mapping

### > Uploaded Observation Files

### Observations

[Upload Observations](#)
[Edit Observations](#)
[Download Observations](#)
[Delete All Observations](#)

Location	TL	TR	Primary	Phantom	sCh	Chieftdom_code
AFRO::SLE::SL-N::Port Loko::Buya Romende	2012-01-07	2012-01-07			59	2402
AFRO::SLE::SL-N::Port Loko::Dibia	2012-01-07	2012-01-07			24	2403
AFRO::SLE::SL-N::Port Loko::Kaffu Bullom	2012-01-07	2012-01-07			41	2404
AFRO::SLE::SL-N::Port Loko::Koya	2012-01-07	2012-01-07			42	2405
AFRO::SLE::SL-N::Port Loko::Lokomasama	2012-01-07	2012-01-07			36	2406
AFRO::SLE::SL-N::Port Loko::Maferki	2012-01-07	2012-01-07			0	2407
AFRO::SLE::SL-N::Port Loko::TMC	2012-01-07	2012-01-07			0	2411



- Public-facing version
- Country summary pages
- Special user access? (e.g., for countries with non-public data)
- API and R package refinement
- Further development of methods to deal with these messy data