

Overview of the surveillance system in Liberia

BY: JEFFERSON SIBLEY, MD
MEDICAL DIRECTOR
PHEBE HOSPITAL & SCHOOL OF NURSING
BONG COUNTY, LIBERIA

Overview of the surveillance system

- Prior to 2004 Liberia has a vertical surveillance program
 - Acute Flaccid Paralysis
 - Acute Bloody Diarrhea
 - Cholera
 - Hemorrhagic Viral Diseases (Lassa Fever)
 - Measles
 - Meningitis
 - Neonatal tetanus
 - Acute watery diarrhea
 - Yellow fever

Overview of the surveillance system con't

- From 2004 Liberia adopted the integrated surveillance system (IDSR)
 - strategy of the World Health Organization Regional Office for Africa for improving epidemiologic surveillance and response in the African region
- Rationale of the integrated disease surveillance (IDSR)
 - combining resources to collect information from a single focal point at each level
 - Conduct effective surveillance activities
 - Integrate multiple surveillance systems to use resources more efficiently

Overview of the surveillance system con't

After the adoption of the IDSR five diseases/conditions were also added:

- Maternal death
- Neonatal death
- Unknown cluster of death
- Unknown cluster of human event
- Human rabies

Paper based recording (2004—2014)

SILENT YEARS

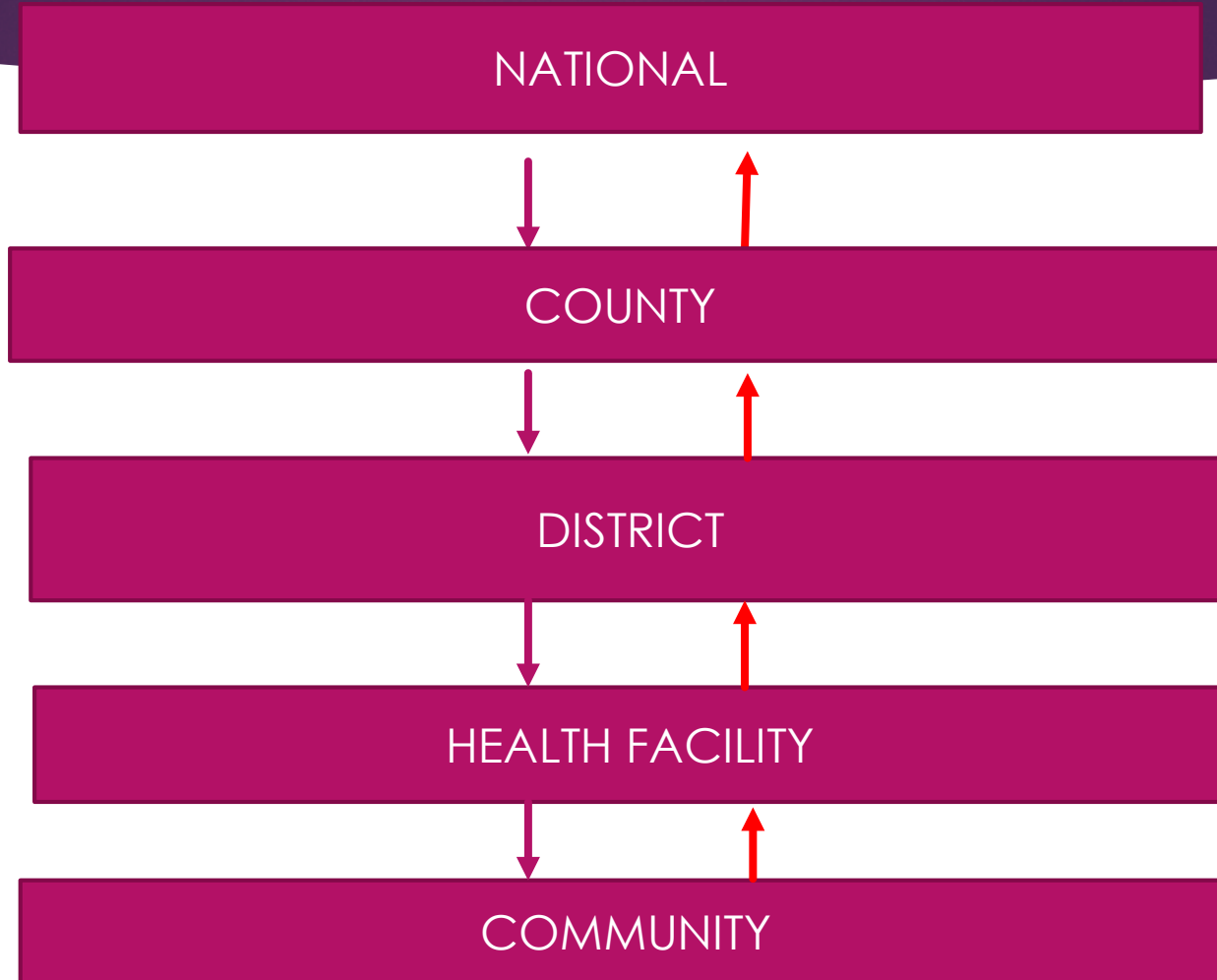
- 2014-2015
 - Surveillance system was disorganized due to EVD outbreak
 - Hospital and peripheral health facilities closed down
 - Community fear to be suspected for EVD



NEW DISEASES ADDED AFTER EVD

- Three New Diseases Added To Surveillance Diseases
 - Dengue Fever
 - Monkey Pox (south eastern region)
 - Multi Drug Resistance Tuberculosis (MDR)

Reporting Flow



Recent Data - Lassa

- ▶ Endemic in Liberia with peaks in incidence closely related to seasonal patterns¹
- ▶ Lassa fever is known to be endemic in four counties:(Nimba, Bong, Grand Bassa, Lofa) Others include Margibi, Grd Kru & and Montserrado) in Liberia.
- ▶ Lassa fever is endemic in parts of West Africa including Sierra Leone, Benin, Ghana, Mali, Nigeria and Liberia

Recent Data of Lassa con't

Since week 1 to 43, 2018:

- ▶ Total suspected cases:175
- ▶ Total confirmed: 20
 - ▶ **Confirmed by RT-PCR-20:** Nimba (9), Bong (4), Montserrado (3),Grand Bassa (2) and Margibi (2).
 - ▶ The confirmed cases: 12 were females and 8 were males

Total suspected cases in 2017: 53

- ▶ Confirmed: 20

Total suspected in 2016 is 67

- ▶ Confirmed is 15

Case Fatality Rate in confirmed Case- 65% (13/20)

THANKS