Advancing vaccine development and manufacture in Africa 24 – 25 September 2018, Freetown, Sierra Leone



EBOLA VIRUS DISEASE in DRC

Steve AHUKA





10 EVD outbreaks between 1976 et 2018 in DRC

- Mortality: 25 à 90%
- DRC: 10 outbreaks in 9 of 26 provinces --

Mongala (Yambuku 1976), Sud-Ubangi (Tandala

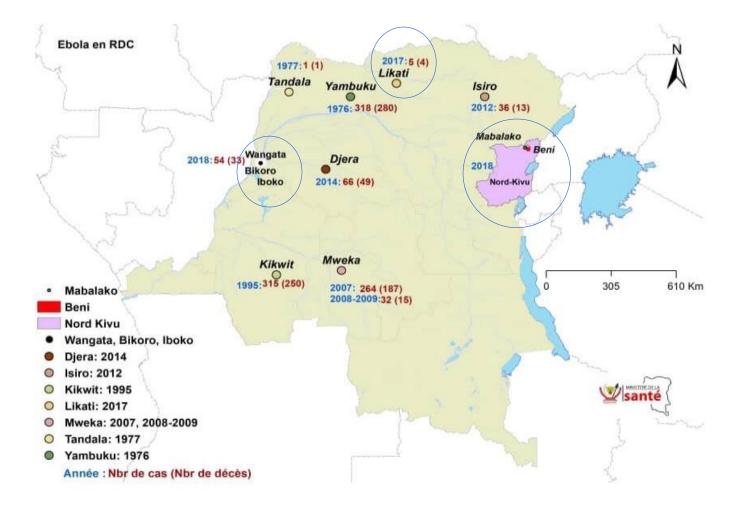
1977), Kwilu (Kikwit 1995), Kasaï-Occidental

(Mweka 2007 et Kaluamba 2008), Haut-Uélée

(Isiro, 2012), Tshuapa (Boende 2014), Bas-Uélé

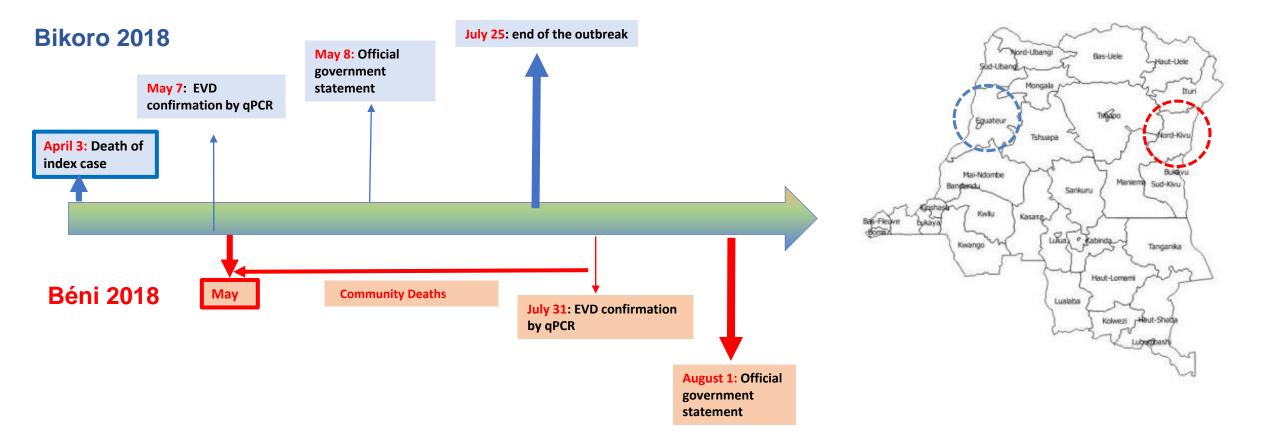
(Likati 2017), Equateur (Bikoro 2018) et Nord Kivu

(Beni 2018).

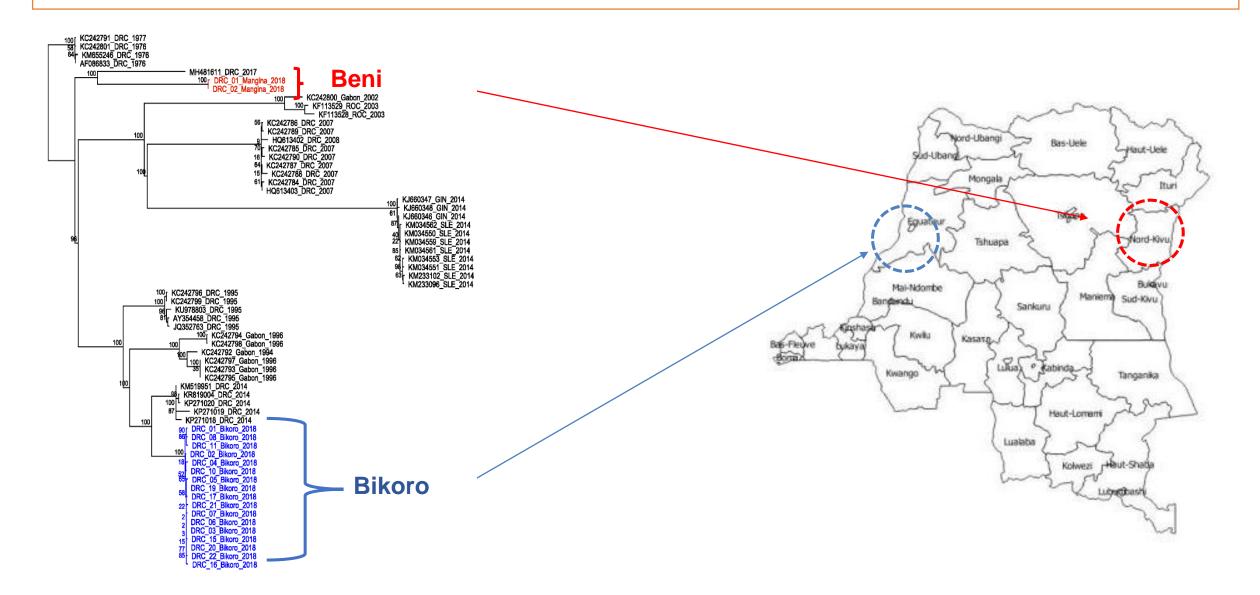


Two EVD oubtreaks in 2018

Simultanous Outbreaks

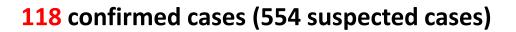


Two different oubtreaks



Current situation in the field: 22 September 2018





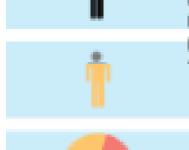




40 Patients recovered





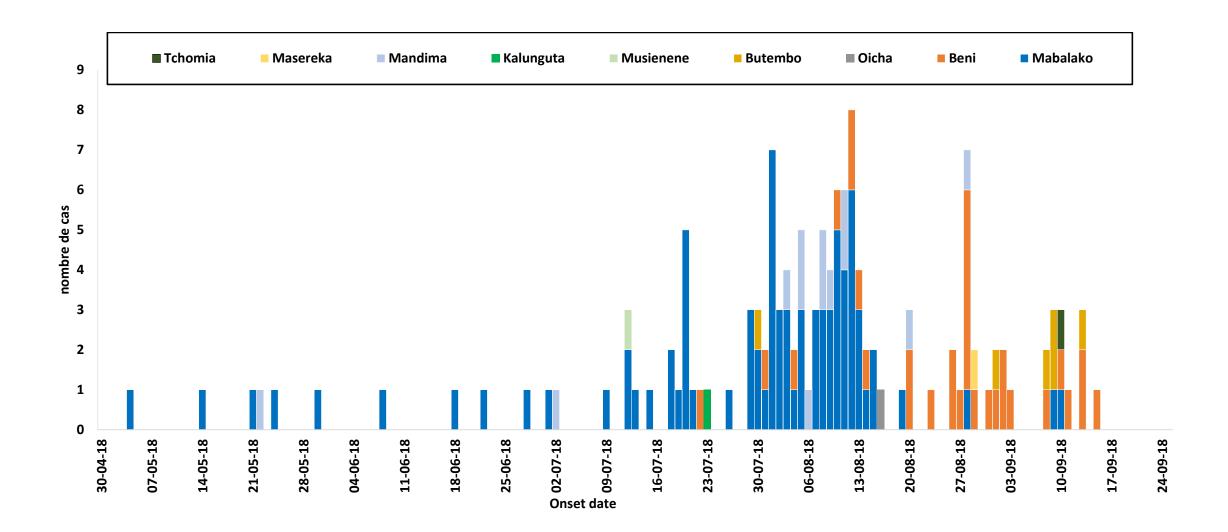


11044 Vaccinated (contacts , contacts of contacts dans FLHW)

19 Health staff infected (**3 deaths**)

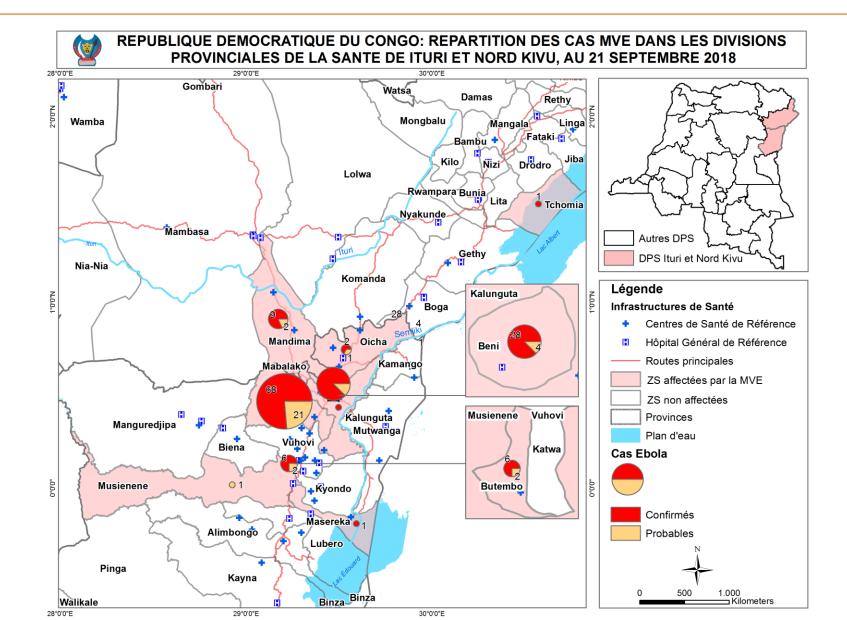
Global Mortality: 66%

EVD cases per site



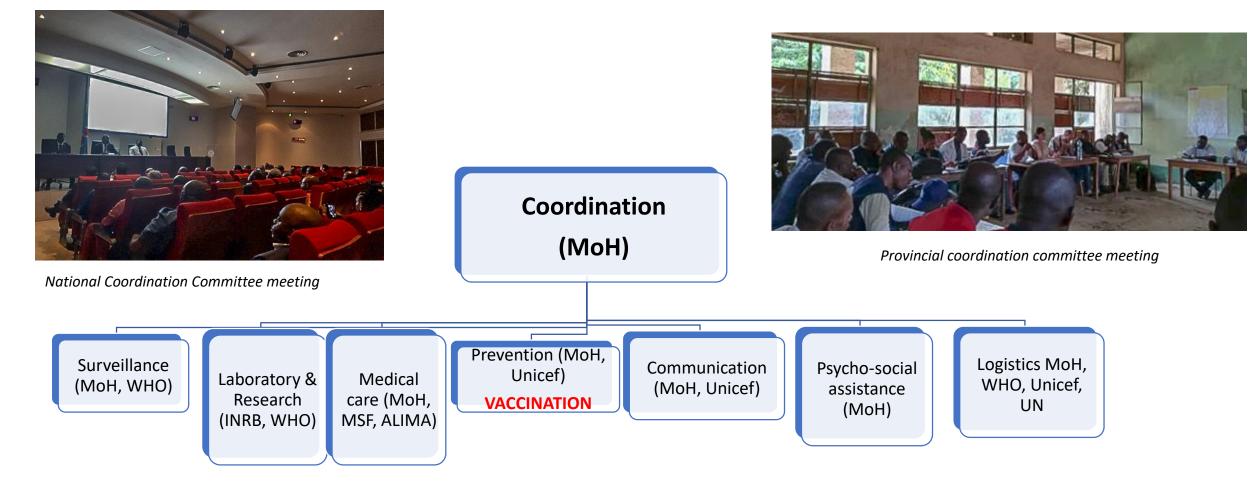
6

Current situation in the field: 21 September 2018



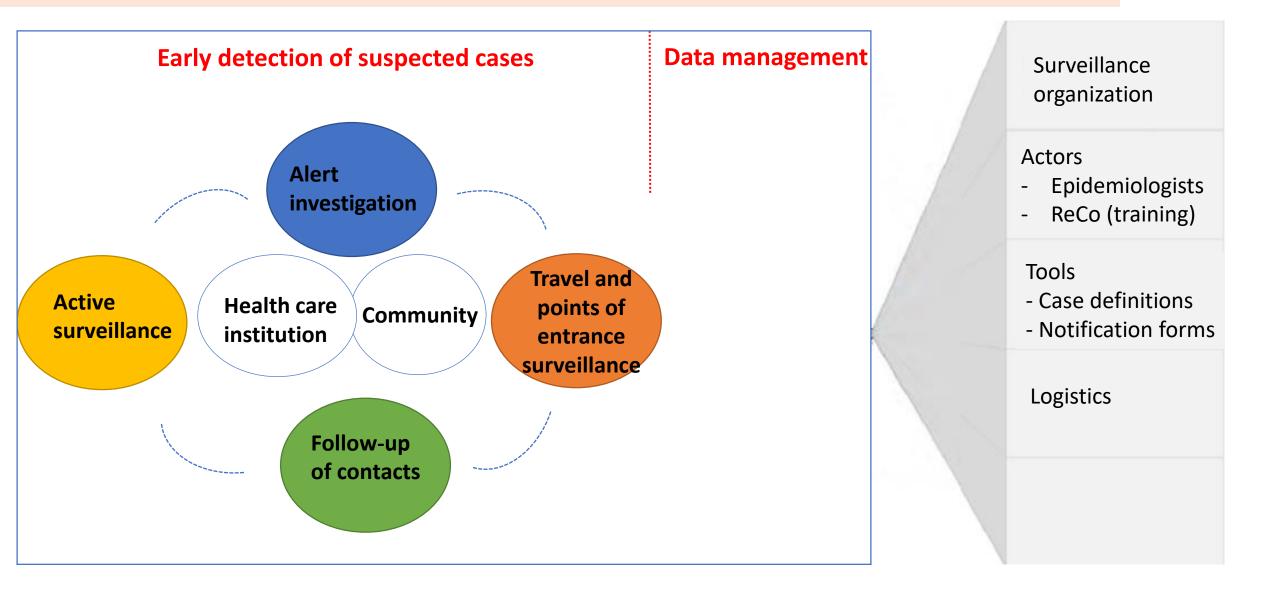
EVD Response strategy: National leadership

Establishment of a national and field multidisciplinary coordination



EVD Response strategy **Surveillance**





EVD Response strategy: Surveillance



community based surveillance



Surveillance activities at the airport, Bikoro outbreak, 2018





L'équipe de la prise en charge sort un cas suspect de la maison. LOKOLIA/ Boende/ Equateur, RDC, 2014

EVD Response strategy: Laboratory and Research

$\,\circ\,$ Diagnostic activities

- ✓ Rapid tests (OraQuik and QuickNavi)
- ✓ RT-PCR using
 - Smartcycle,
 - Lightcycle
 - GenExpert
- ✓ ELISA (serial test of IgG)
- $\,\circ\,$ Follow-up of patients in CTE
 - ✓ RT-PCR
 - ✓ Hematological and biochemical tests (Piccolo and I-start)



EVD Response strategy: Medical care

• Medical care activities

- ✓ Isolation of patients
- ✓ Supportive treatment
- ✓ Free medical consultation

- ✓ Trials using 5 molecules in MEURI protocole
- \checkmark 37 patients have been treated with drugs



Isolation cube for patients in CTE, Béni outbreak, 2018

EVD Response strategy: Medical care

Drugs	Site	Number of treated Patient
mAb 114	MANGINA	14
	BENI	3
	BUTEMBO	4
REMDESIVIR	MANGINA	5
	BENI	4
ZMAPP	BENI	7
TOTAL		37

Experimental drugs in MEURI protocole

EVD Response strategy: Prevention

• Break the chain of transmission in the community and

hospitals

- ✓ Training on hospital hygiene
- \checkmark Installation of handwashing points

✓ Vaccination

 \checkmark Humanized and secure burial

$\,\circ\,$ WASH activities

✓ Drinking water supply✓ Installation of latrines







Vaccination of medical staff in Bikoro, 2018

EVD Response strategy: Communication and Social mobization and engagement

medicale

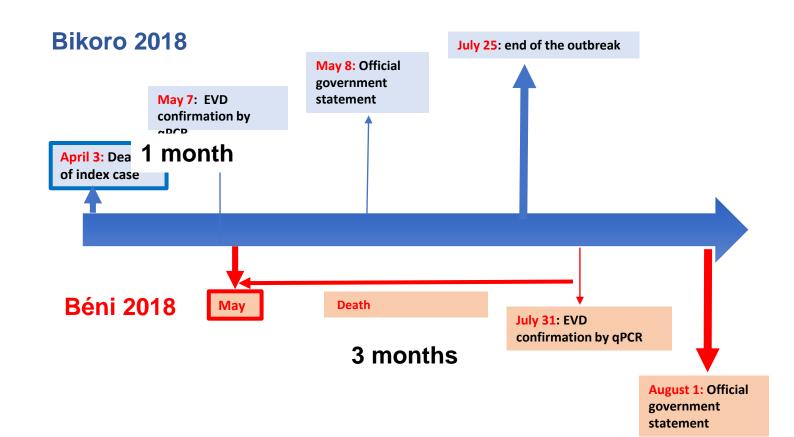


Objective: to obtain community engagement for a sustainable change of behavior (education sessions and dialog)



Key Challenges

- 1. Early detection
- 2. Logistics
- 3. Community engagement
- 4. Security



Message to AVMI community



Curent oubtreaks in DRC

- Ebola
- YF cases
- Measles
- Polio: VDPV
- Cholera
-
- All are vaccine preventable diseases

We need vaccine manufacturing capacity to respond to outbreks

THANKS