



IMPLEMENTING EIOS AT AFRICA CDC

WHO EIOS Technical Meeting
Seoul, South Korea
13 November 2019

Overview

- Status of implementation
- Obstacles
- Recommendations for development and expansion

Status of EIOS Implementation at Africa CDC

- Primary tool for internal Africa CDC event-based surveillance
- Team of up to 4 users performs routine scanning Monday-Friday
- Verify, assess, report, track events
- Summary report circulated internally each week
- Ad hoc reports released for some acute events, e.g., Ebola imported into Uganda

Africa CDC Priority List, Monitoring Board

←

Board: Africa CDC Infectious disease scanning

📡

Categories: Anthrax, Avian influenza, Brucellosis, Cholera, Clostridium ... +27. About Countries: Afghanistan, Angola, Burkina Faso, Burundi, Benin ... +47.

Filter

definition

682
TOTAL ARTICLES

⏮ ⏪ 1 of 14 ⏩ ⏭

Any article

Fetch Date

EIOS EPIDEMIC INTELLIGENCE
FROM OPEN SOURCES

Monitoring

Search text within articles...

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TIME PERIOD

Period: (Fetch Date) Last 7 Days

➤

CATEGORIES

Anthrax, Avian influenza, Brucellosis, Cholera, Clostridium, Clostridium botulinum, Coronavirus, Crimean-Congo Hemorrhagic fever, Ebola, Hemorrhagic fever, Lassa Fever, Marburg Hemorrhagic Fever, Monkeypox, Nipah Virus, Q-Fever, Rift Valley Fever, SARS, Smallpox, Staphylococcal infection, Unknown disease, Yersinia Pestis, Chikungunya virus disease, Dengue Fever, Dracunculiasis, Measles, Mycobacterial infections, Onchocerciasis, Poliomyelitis, Tetanus, Typhoid fever, West Nile Disease, Yellow Fever
(32 of 220)

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MENTIONED COUNTRIES

About: Afghanistan, Angola, Burkina Faso, Burundi, Benin, Botswana, Democratic Republic of the Congo, Central African Republic, Republic of the Congo, Ivory Coast, Cameroon, Djibouti, Algeria, Egypt, Western Sahara, Eritrea, Ethiopia, Gabon, Ghana, Gambia, Guinea, Equatorial Guinea, Guinea-Bissau, Kenya, Liberia, Lesotho, Libya, Morocco, Madagascar, Mali, Mauritania, Mauritius, Malawi, Mozambique, Namibia, Niger, Nigeria, Portugal, Rwanda, Seychelles, Sudan, Sierra Leone, Senegal, Somalia, South Sudan, Chad, Togo, Tanzania, Uganda, South Africa, Zambia, Zimbabwe

Weekly Media Scanning Workflow



Africa CDC Weekly Surveillance Report



Africa CDC Weekly Event Based Surveillance Report
14 October – 18 October 2019

Date of Issue: 18 October 2019

HUMAN EVENTS			
Event	Location	Risk	Page
Ebola virus disease	DRC	Very High	2
Measles	DRC	Moderate	2
Cholera	Sudan	Low	3
Plague	DRC	Moderate	3
Yellow fever	Nigeria	Moderate	4
Lassa fever	Nigeria	High	5
Monkeypox	Nigeria	Low	6
ANIMAL EVENTS			
African Swine Fever	Malawi	No Risk	7
Anthrax	Namibia	Moderate	7
OTHER EVENTS			8
DEPLOYMENTS			
Event	Location	Persons	Deployed
Ebola Virus Disease	DRC	57 volunteers deployed	01 August 2018 (36)
		Dr. Wessam Mankoula	September 2019 (21)
		Mr. Haftom Taame	22 September 2019
	Uganda	Ms. Ezinne Onwuekwe	06 October 2019
	South Sudan	Dr. Herilinda Temba	01 October 2019
		Dr. Felix Ingabire	

Compiled By: Jacques Katomba, Suzan Kessy, Stephanie Salyer, and Bethelhem Tibebe.

HUMAN EVENTS [Updates]

Ebola virus disease in the Democratic Republic of the Congo [Update]

3,2278 cases and 2,158 deaths

First Occurred: August 2018	Date Reported: 1 August 2018	Source: MOH, DRC
Agent/Disease: Ebola virus	Country: DRC	Subnational: Multiple

Updates to event: Since last 11 October 2019, there have been 15 new confirmed cases and 5 new confirmed deaths. 7 confirmed cases have been discharged alive from Ebola treatment centers (ETCs), resulting in a total of 1038 people recovered. While it is encouraging to see another week of relatively low numbers of newly confirmed cases (Figure 1), these are occurring in a concentrated area where limited access and insecurity pose challenges for the response.

As of 18 October 2019, a total of 3,228 EVD cases, including 3,114 confirmed and 114 probable cases have been reported. To date, confirmed cases have been reported from 29 health zones in 3 provinces. In the last twenty-one (21) days (27 September- 17 October 2019), 10 health zones from two (2) provinces have reported at least one confirmed case. **North Kivu Province**, majority of the cases were recorded in Kalunguta (4) and Beni (4) and remaining cases were reported in: Oicha (3), Lolwa (3), Biena (2), Butembo (1) and Katwa (1). **Ituri Province**, the majority of cases were recorded in Mandima (28), Mambasa (5) and remaining cases were reported in Nyakunde (1) and Komanda (1).

As of 18 October 2019, a total of 2,158 deaths were recorded, including 2,029 among confirmed cases, resulting in a case fatality ratio (CFR) among confirmed cases of 67%. The cumulative number of cases among health workers is 161 (5% of all confirmed and probable cases). As of 15 October 2019, a cumulative total of 237,165 people have been vaccinated since the start of the outbreak in August 2018.

Response: The Coordination of Ebola virus response team has announced that the administration of the second effective preventive vaccine by Johnson & Johnson in country's eastern province in November at Goma (North Kivu). The arrival of new vaccine is schedule for October 18.

Risk assessment: Very High

Basis for risk assessment

1. High probability of spread within Member State: Yes
2. Threat unusual or unexpected: No
3. High probability of spread to other countries: Yes
4. Likely to cause severe disease in this population: Yes
5. Effective treatments and control measures available in Member State: No

Measles in the Democratic Republic of the Congo [Update]

203,179 cases and 4,065 deaths

First Occurred: January 2019	Date reported: 21 May 2019	Source: WHO
Agent/Disease: Measles	Country: DRC	Subnational: Multiple

Updates to Event: Since the last report (14 October 2019), 6,922 new measles cases including 152 deaths were reported from all 26 provinces of the country. In total, 214 (41%) of the 519 health zones across the country have reported a confirmed measles outbreak. Since the beginning of 2019, 203,179 measles cases including 4,065 deaths (CFR 2%) have been recorded. Overall, 51% of cases reported in 2019 have been notified from Tshopo, Lualaba, Kasai and Haut-Lomami provinces. The case fatality rate is higher in the provinces of Sankuru (5%), central Kasai (5%), Tshuapa (4%), Equateur (3%) and Kwilu (3%).

Obstacles

- Internet
 - Limited bandwidth
 - Unstable connection
- Learning curve for staff working on EIOS part-time
- Long-term plan to develop internal Africa CDC event-management system
 - Connect to EIOS and allow collaborative report writing and assessment by Africa CDC headquarters and regional personnel
 - Development stalled, because of difficulty in finalizing contract between African Union and external partner

Needs from WHO/EIOS

- Offline mode or low-bandwidth optimization
- Better filters for noise

Needs from WHO/EIOS







- Offline mode or low-bandwidth optimization
- Better filters for noise

A recent anthrax event

The screenshot shows the EIOS Monitoring interface. The top navigation bar includes 'Monitoring', 'Big Screen Map', 'Documents', and 'User Manual'. The user 'Salyer, Stephanie' is logged in. The main content area displays an article titled 'Jumbos kill Hwange resident' with a Zimbabwean flag icon. The article is dated 21/10/2019 00:58 and is categorized as 'General News' from 'Nehanda Radio' in Zimbabwe. A summary box highlights the article's content: 'By Leonard Ncube. A man from Hwange died allegedly after being attacked by elephants while herding cattle on Friday bringing to 22 the number of people killed by wildlife countrywide since January this year. People from Change area at a scene where a fellow villager's body was found following an attack by elephants on Friday.' The full article text is visible below the summary.

Article

Jumbos kill Hwange resident

Fetch Date: **21/10/2019 00:58**
Import Date: **21/10/2019 01:00**
Source: **nehandaradio** 
Nehanda Radio
Subject: ● **General News**
Language: (en) **English**
Source Country :  Zimbabwe
Mentioned Countries:
 **Zimbabwe** 
Associated Categories:
 **Anthrax** 
EMM Id: nehandaradio-

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By Leonard Ncube. A man from Hwange died allegedly after being attacked by elephants while herding cattle on Friday bringing to 22 the number of people killed by wildlife countrywide since January this year. People from Change area at a scene where a fellow villager's body was found following an attack by elephants on Friday.

By Leonard Ncube. A man from Hwange died allegedly after being attacked by elephants while herding cattle on Friday bringing to 22 the number of people killed by wildlife countrywide since January this year. People from Change area at a scene where a fellow villager's body was found following an attack by elephants on Friday. Zimbabwe National Parks and Wildlife Management Authority (Zimpar

Thursday, October 24, 2019

Needs from WHO/EIOS

- Offline mode or low-bandwidth optimization
- Better filters for noise
- Expand user base among African Member States
 - Advances event-based surveillance in Africa
 - Increases community of users who can assist each other and identify priorities for improvement
- Other (minor?) enhancements
 - Ability to tag and filter events in different populations (animal, human, environment)
 - Preset regional filters (e.g., Africa)