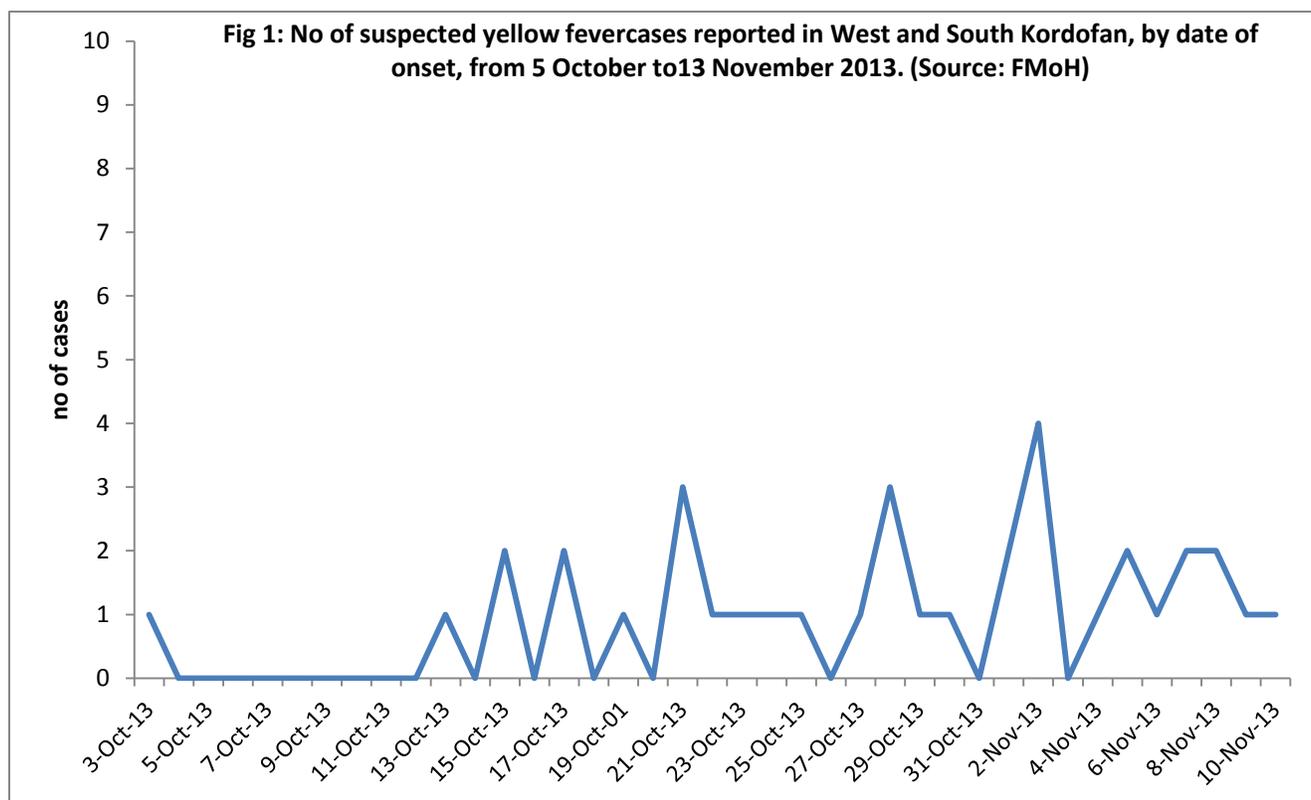




Highlights

- Between 3 October and 13 November 2013, a total of 36 suspected cases of yellow fever (YF) were reported with 10 deaths, presenting a case fatality rate of 27.8%
- Out of the 12 samples collected from suspected YF cases which were re-tested at the Institute Pasteur in Dakar, three were positive for YF.
- As of today, 10 localities in West and South Kordofan are affected by the disease.
- Small scale vaccination campaign against YF commenced in the localities of Kadugli, Elreef Alshargi, Lagawa and Keilak targeting 100 000 individuals.

Between 3 October and 13 November 2013, a total of 36 cases of suspected viral hemorrhagic fever (VHF) were reported with 10 deaths, presenting a case fatality rate of 27.8%. According to initial investigation, patients who acquired the infection came from Gengaro, Selegi, Masalit, Ghara, Alkarkar in Lagawa locality, Dumaik, Barno and Abusafifa in Eastern rural locality, Abu Gibaiha, Bajom (Ghadir locality), Miram, and Umaddar and Kanys in Kailak locality. Please see map and figure below.



86% of the cases are male and 14% female. 2.8% of the reported cases and are in the age group 2-4.9, 16.7 in the age of 5-14.9, 52.8% in 15- 29.9 years and 25% in the age group 30-44.9 and 2.8% in the age group of 45 year and above.

Sex	
Male	86%
Female	14%
Age	
5-14.9	16.7%
15-29.9 years	52.8%
30-44.9 years	25%

Most of the patients presented with fever, joint pain, bleeding manifestations and jaundice. See Table 1 below.

Table 1: Most prevailing symptoms and frequency among the suspected cases of Yellow Fever in West and South Kordofan in the period 3 October to 13 November 2013. (Source: FMoH)

Symptom	Frequency of the symptom among
fever	100%
Joint pain	78%
Bleeding manifestations	67%
jaundice	36%

Twenty six serum samples were collected and sent to the National Public Health Laboratory in Khartoum. Based on the investigation conducted by NPHL, the tested blood samples showed eleven positive cases for yellow fever by ELISA and PCR. All tested samples were negative for dengue fever, rift valley fever and Crimean Congo hemorrhagic fever.

Twelve samples were sent Institute Pasteur in Dakar for reconfirmation. Preliminary results showed three samples were clearly positive for YF IgM, and two were equivocal for YF IgM. Confirmatory tests are ongoing and would be available in the coming days.

Table 2: Laboratory results of the collected sera from suspected cases of YF in West and South Kordofan in the period 3 October to 13 November 2013. (Source: FMoH)

State	Locality	No of cases	Attack rate/1000 population	No of deaths	No of serum samples collected	Laboratory results					
						Y. Fever +ve	Y. Fever -v	Dengue F. +ve	Dengue F. -ve	CCHF +ve	CCHF -ve
West Kordofan	Lagawa	13	0.60	5	9	5	2	0	0	0	7
	Kailak	5	0.87	2	3	1	2	0	2	0	3
	Almuglad	1	0.04	0	0	0	0	0	0	0	0
South Kordofan	Elreef	7	1	1	7	4	3	0	3	0	4
	Alshargi										
	Abu Gibaiha	4	0.16	1	3	1	0	0	0	0	0
	Ghadir	1	0.17	1	0	0	0	0	0	0	0
	Habila	2	0.16	0	1	0	0	0	0	0	0
	Kadugli	1	0.07	0	1	0	0	0	0	0	0
	Altadamon	1	0.15	0	1	0	0	0	0	0	0
Talodi	1	0.19	0	1	0	0	0	0	0	0	
Total		36	0.44	10	26	11	5	0	5	0	14

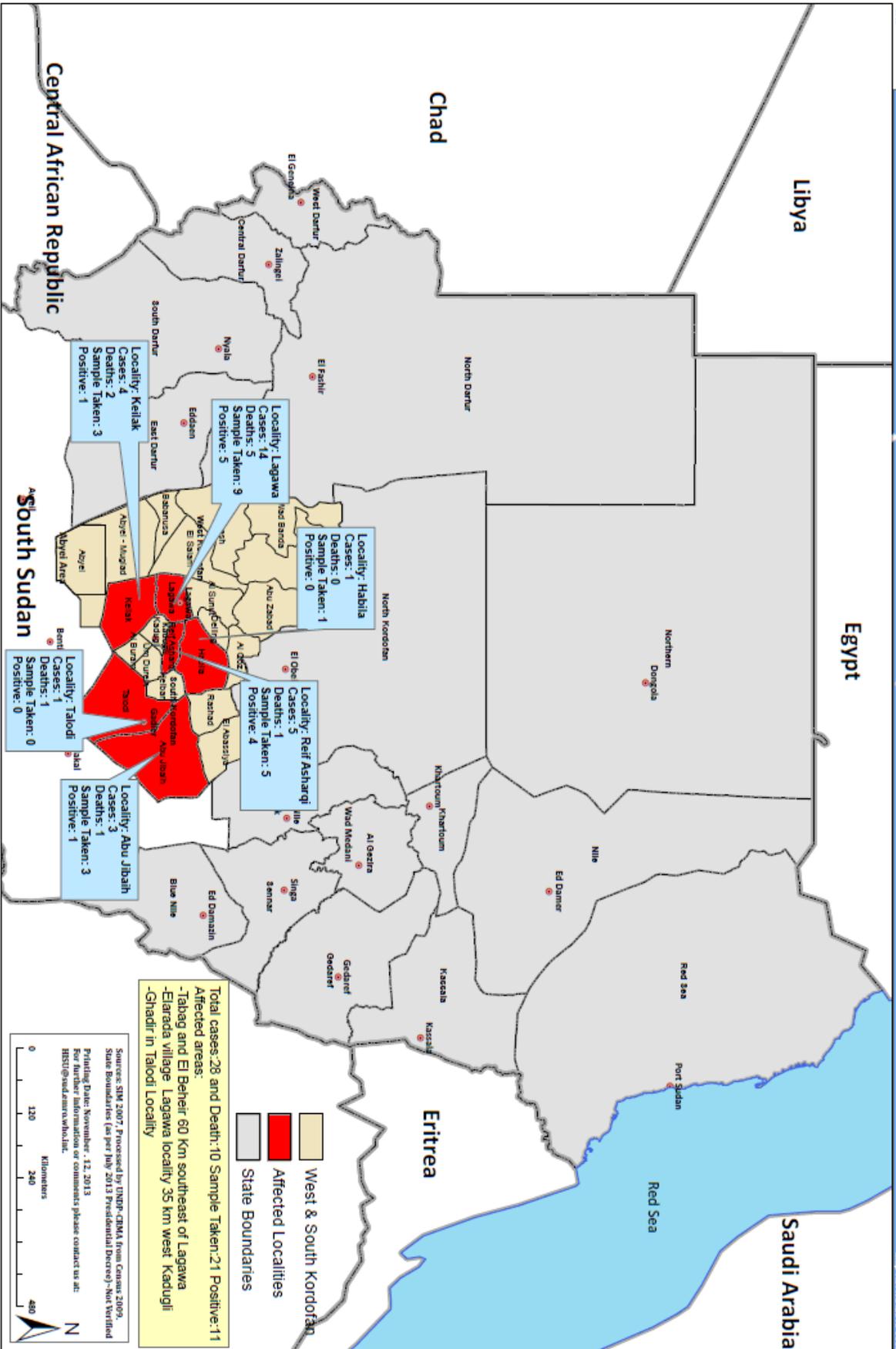
Actions taken

- Small scale vaccination campaign commenced on 29 October 2013. So far, vaccination teams covered 20 790 in Kailak and Lagawa localities in West Kordofan. Vaccination camping started in on 7 November in Kadugli and Al Reef Alshargi targeting children below 10 years of age.
- The Federal Ministry of Health (FMoH) has sent investigation team to Abu Gibaiha of South Kordofan on 11 November 2013.
- Health education campaigns are underway in South and West Kordofan through local radio stations, schools and mosques.
- FMoH is ready with its vaccination plans to cover the affected localities in both South and West Kordofan. The schedule of the campaign will largely depend on the reconfirmation of the diagnosis.
- Communicable disease surveillance system has been strengthened in White Nile, Gezira, Kassala, Gedarif and Khartoum.



Suspected cases of VHF, 11 November 2013

HS15-SUDAN
Map Ref: WHO/2013-2015



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