



# SITUATION REPORT

## Nigeria Centre For Disease Control (NCDC)

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<b>B TITLE:</b>	<b>YELLOW FEVER OUTBREAK IN NIGERIA</b>
<b>SERIAL NUMBER:</b>	<b>038</b>
<b>EPI-WEEK:</b>	<b>44</b>
<b>DATE:</b>	<b>29<sup>th</sup> October – 4<sup>th</sup> November, 2018</b>

### HIGHLIGHTS

- In this reporting week **29<sup>th</sup> October – 4<sup>th</sup> November, 2018:**
  - 24 suspected cases were recorded
  - Of this, seven presumptive positive and four inconclusive cases were recorded from three in-country laboratories
    - NCDC Central Public health laboratory: three presumptive positives (CPHL: [Abia – 1 (Isiala Ngwa North LGA), Ebonyi -1 (Afikpo South LGA), Lagos -1 (Ifako Ijaye LGA)]; and four inconclusive, [Abia -1 (Isiala Ngwa South LGA), Anambra -1 (Anambra East LGA), Edo-1(Uhunmwondi LGA), Rivers-1(Ikwere LGA).
    - Maitama District Hospital (MDH): three presumptive positive cases [FCT-2 (Bwari area council), Nasarawa -1 (Toto LGA)
    - NCDC National Reference Laboratory (NRL) Gaduwa: one presumptive positive case from Borno (Gubio LGA)
  - No new confirmed case from Institut Pasteur (IP) Dakar
  - Last confirmed case from IP Dakar was on 18<sup>th</sup> October, 2018
  - A national yellow fever Incident Management System (IMS) Level 2 Emergency Operation Centre (EOC) is active
  - Phase 2b Yellow fever preventive mass vaccination campaign to commence from 22<sup>nd</sup> November, 2018
  - A three year (2019-2021) Yellow fever (YF) Preventive Mass Vaccination Campaign (PMVC) proposal plan approved by global alliance for vaccine initiatives) (GAVI)

### SUMMARY OF OUTBREAK

- A yellow fever outbreak is currently active in Nigeria. Confirmed cases have been recorded in fourteen States (Kwara, Kogi, Kano, Zamfara, Kebbi, Nasarawa, Niger, Katsina, Edo, Ekiti, Rivers, Anambra, FCT, and Benue States): in 27 Local Government areas (LGAs) [Table 1]
- Since the beginning of the outbreak, 167 samples (presumptive positive -141 and inconclusive -26) in 85 LGAs have been sent to IP Dakar for re-confirmation [Figure 1]
- All Nigerian states have reported suspected cases in 570 (73.6%) LGAs [Figure 5] From the onset of this outbreak in September 12, 2017, a total of 3,371 suspected yellow fever cases have been reported as at week 44 [29<sup>th</sup> October – 4<sup>th</sup> November, 2018: (Table 1)]

- Of the 3,371 suspected cases, 3,117 (92.5%), had blood samples collected and sent to the Nigerian testing laboratories for confirmation [Table 2]
- Of the 3,117 samples collected, **141 (4.5%) tested positive for yellow fever (presumptive positive cases) and 26 (0.8%) inconclusive results in six Nigerian laboratories** [Table 1]
- **Of the 167 (presumptive positive and inconclusive) samples in Nigeria, 56 (33.7%) samples have been confirmed positive by IP, Dakar. 88 (53%) samples were negative. Awaiting results of 23 (13.7%) samples from IP Dakar** [Table 1]
- Of all suspected, probable and confirmed cases, 55 deaths have been recorded with 13 deaths among confirmed cases only
- The case fatality ratio (CFR) for all cases (suspected, probable and confirmed) is 1.6%, and 23.2% for confirmed cases.[Table 1]
- Predominant age groups affected among the suspected cases is 20 years and below (children and younger adults) accounting for 2,114 (62.7%) [Male 1,292 (38.3%): Female 822 (24.4%)], However, age groups 1 - 5 years have the highest peak [Figure 6]
  - Median age is 15 years (range 1 – 92 years)
  - Male to female ratio is 1.4 to 1 [Male 1,952 (57.9%), Female 1,420 (42.1%)]
  - Among the confirmed cases, male to female ratio is 1.9:1 (Male 66.1%, Female 33.9%)
- Yellow fever preventive mass vaccination campaigns (PMVC) have been successfully completed in six states:
  - Nasarawa, Cross River, Akwa Ibom; Kogi, Kwara and Zamfara and in fifty-eight political wards in 25 LGAs in Borno State
  - 2018 phase 2b November PMVC to be implemented from 22<sup>nd</sup> November – 1<sup>st</sup> December, 2018 in Sokoto, Kebbi, Niger, FCT, Plateau and Borno [3 LGAs (Askira/Uba, Chibok, Konduga)] States. Target population 9 months to 44 years, (85% of the total population).

## EPI- SUMMARY

**Table 1: Showing all affected states and cases with Yellow fever as at week 44 (29<sup>th</sup> October – 4<sup>th</sup> November), 2018**

Description	Abia	Borno	Kogi	Kwara	Plateau	Zamfara	Kebbi	Enugu	Oyo	Anambra	Edo	Lagos	Kano	Nasarawa	Katsina	Niger	Bayelsa	Cross River	Kaduna	Rivers	Sokoto	Imo	Delta	Jigawa	Akwa Ibom	Ebonyi	Ekiti	FCT	Ogun	Ondo	Osun	Benue	Adamawa	Bauchi	Gombe	Taraba	Yobe	Total		
Total Number of cases in the linelist	121	213	113	122	73	153	557	146	43	219	134	48	122	119	229	31	25	18	30	49	50	85	53	21	58	53	38	29	38	43	39	140	37	31	16	37	38	3371		
Attack Rate Per 100,000 population	3.1	3.4	2.4	3.4	1.7	3.2	11.9	3.1	0.5	3.8	3	0.4	0.9	4.4	2.8	0.5	1	0.4	0.3	0.6	0.9	1.5	0.9	0.3	1	1.8	1.1	0.7	0.7	0.9	0.8	2.2	0.8	0.5	0.5	1.2	1.1	1.6		
Number of LGAs with suspected cases	18	21	20	12	17	13	22	15	18	18	18	9	28	14	27	9	8	7	12	18	16	23	21	10	20	13	14	4	12	14	19	20	14	11	9	13	13	570		
Number of LGAs with Presumptive /inconclusive cases	4	5	9	2	2	4	7	1	1	7	5	3	1	2	3	1	0	0	0	3	1	4	5	1	1	2	3	3	1	2	1	1	0	0	0	0	0	85		
Number of LGAs with confirmed cases from IP Dakar	0	0	5	2	0	4	5	0	0	1	1	0	1	2	1	1	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	27		
Number suspected cases with Blood sample collected in Nigeria	121	211	106	83	73	63	518	146	43	221	134	48	117	79	204	31	25	18	29	50	50	85	53	20	58	53	35	29	38	43	39	140	36	31	15	34	38	3117		
Number of Presumptive Positives in Nigeria	2	6	21	12	6	25	25	1	1	5	4	2	1	3	4	2	0	0	0	2	1	1	2	2	0	1	3	6	1	0	1	1	0	0	0	0	0	141		
Number with inconclusive results in Nigeria	2	1	0	1	0	0	0	0	4	3	1	0	0	0	0	0	0	0	0	2	0	4	4	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	26	
Total number of samples sent to Dakar	4	7	21	13	6	25	25	1	1	9	7	3	1	3	4	2	0	0	4	1	5	6	2	1	2	3	6	1	2	1	1	0	0	0	0	0	0	167		
Number positive cases from IP Dakar	0	0	12	7	0	19	5	0	0	1	1	0	1	2	1	1	0	0	0	1	0	0	0	0	0	0	1	3	0	0	0	1	0	0	0	0	0	56		
Total number negative in Dakar	1	6	8	6	6	6	15	1	1	8	5	2	0	0	3	1	0	0	0	2	0	3	5	1	1	1	2	1	1	2	0	0	0	0	0	0	0	88		
Number awaiting result from Dakar	3	1	1	0	0	0	5	0	0	1	1	0	1	0	0	0	0	0	0	1	1	2	1	1	0	1	0	2	0	0	1	0	0	0	0	0	0	23		
Number of deaths from all cases	0	1	5	16	2	26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	55		
Number of deaths among presumptive positives	0	0	4	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17		
Number of deaths from IP Dakar confirmed	0	0	3	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13		

**CFR for all cases = 1.6%, among the Presumptive/inconclusive cases 11.0% and among IP Dakar confirmed cases 23.2%**

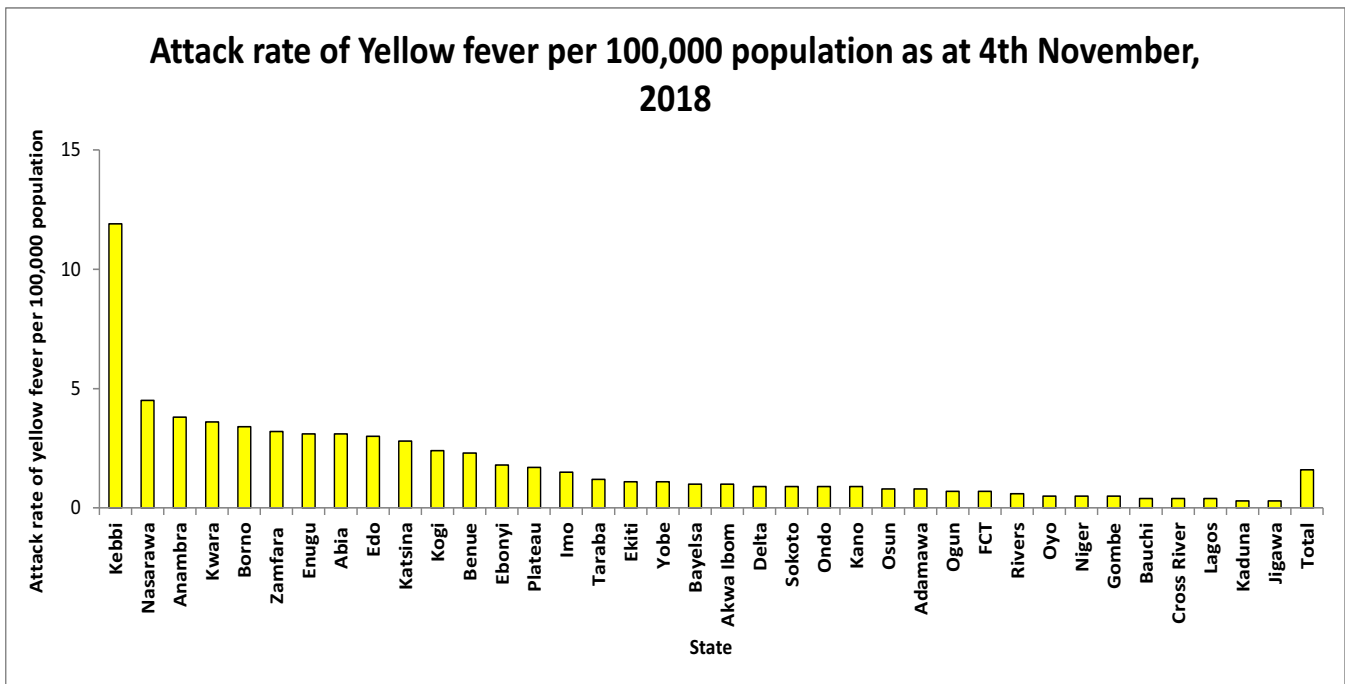


Figure 1: Attack rate of YF in Nigeria by State as at week 44 (29<sup>th</sup> October – 4<sup>th</sup> November), 2018

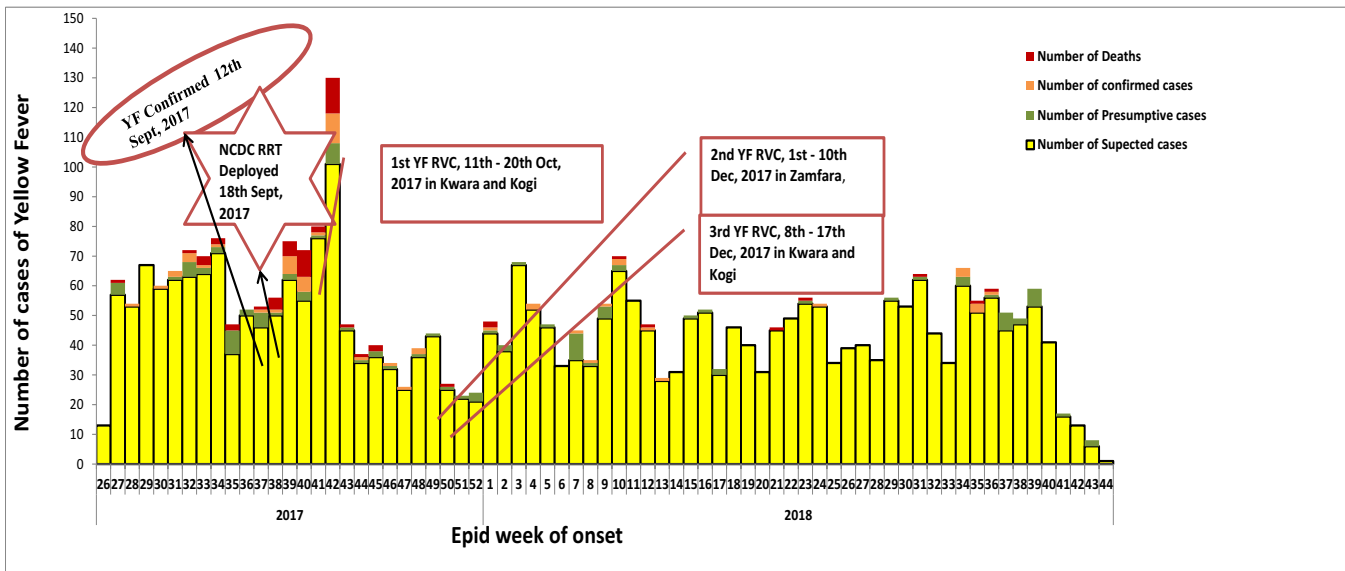


Figure 2: Epidemic curve of suspected / confirmed cases of yellow fever in Nigeria as at week 44 (29<sup>th</sup> October – 4<sup>th</sup> November), 2018



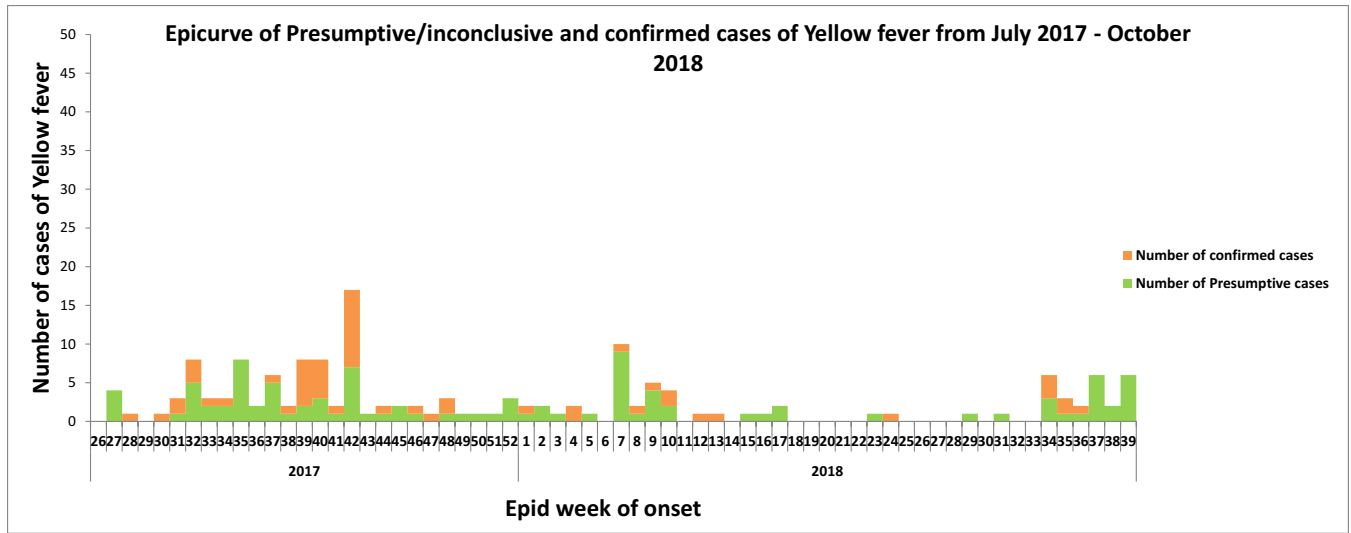


Figure 3: Epidemic curve of presumptive / confirmed cases of yellow fever in Nigeria as at week 44 (29<sup>th</sup> October – 4<sup>th</sup> November), 2018

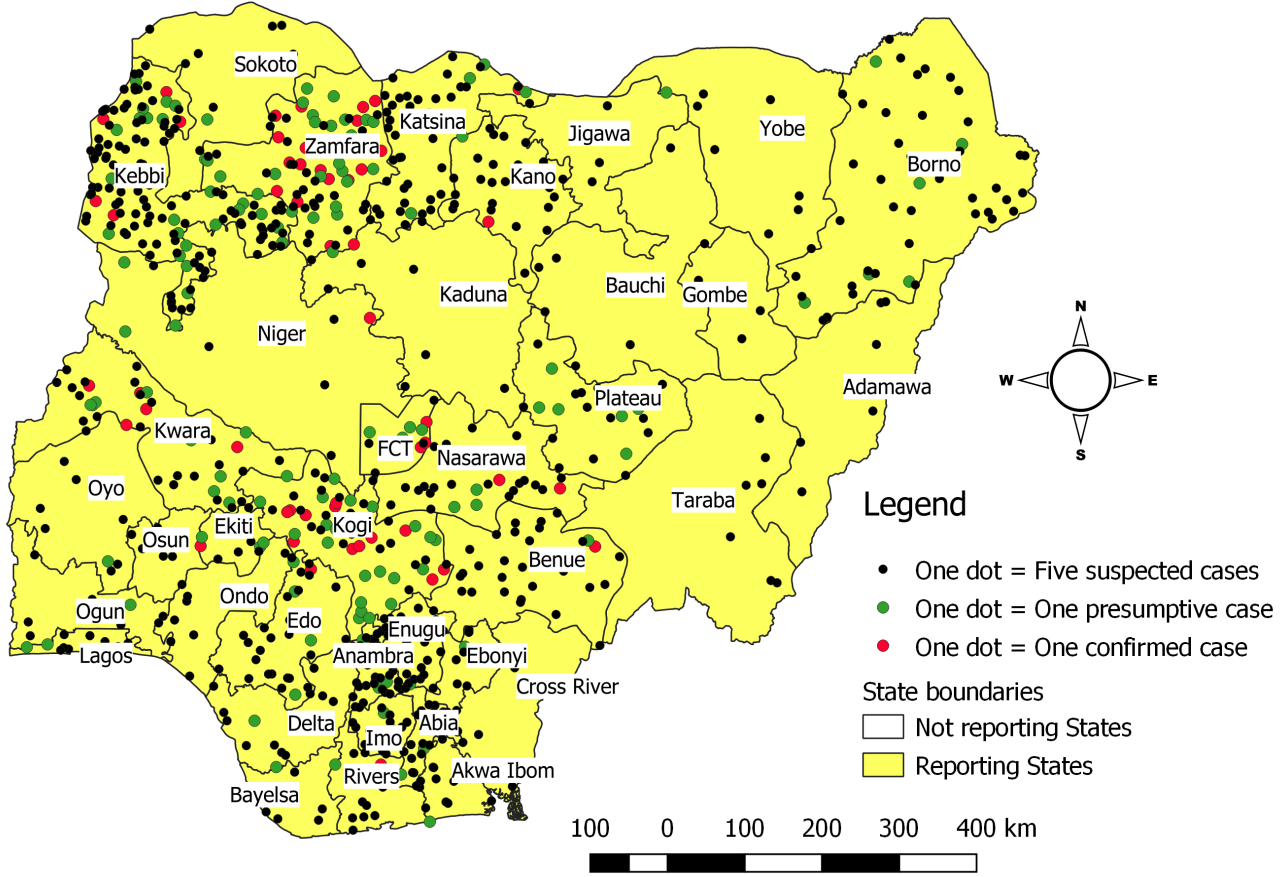


Figure 4: Map of Nigeria showing states with suspected/presumptive/confirmed as at week 44 (29<sup>th</sup> October – 4<sup>th</sup> November), 2018