

# SITUATION REPORT

Nigeria Centre For Disease Control (NCDC)

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PLOT 800 EBITU UKIWE STREET, JABI ABUJA, NIGERIA. TOLL FREE CALL: 0800-970000-10. E: [info@ncdc.gov.ng](mailto:info@ncdc.gov.ng)



<b>aTITLE:</b>	<b>YELLOW FEVER OUTBREAK IN NIGERIA</b>
<b>SERIAL NUMBER:</b>	<b>031</b>
<b>EPI-WEEK:</b>	<b>37</b>
<b>DATE:</b>	<b>10<sup>th</sup> September – 16<sup>th</sup> September, 2018</b>

## HIGHLIGHTS

In this reporting week **10<sup>th</sup> September – 16<sup>th</sup> September, 2018:**

- There were 178 suspected cases added to the national line-list
- Six presumptive positive cases and one inconclusive case were reported from two of the diagnostic laboratories
- The NCDC Central Public Health Laboratory (CPHL) reported three presumptive positive cases and one inconclusive- presumptive positive cases from Anambra (2) and Osun (1)
- Maitama District Hospital (MDH) laboratory reported three presumptive positives cases- FCT (2) and Benue (1)
- Last IP Dakar confirmed case from Nigeria was on 6<sup>th</sup> June, 2018 from River State
- A three year 2019-2021 Yellow fever (YF) Preventive Mass Vaccination Campaign (PMVC) proposal plan is being developed

## SUMMARY OF OUTBREAK

- A yellow fever outbreak is currently active in Nigeria. Confirmed cases have been recorded in eleven States (Kwara, Kogi, Kano, Zamfara, Kebbi, Nasarawa, Niger, Katsina, Edo, Ekiti and Rivers States): in 22 Local Government areas (LGAs) [Table 1]
- Since the beginning of the outbreak, 134 samples (presumptive positive and inconclusive) in 67 LGAs have been sent to IP Dakar for re-confirmation [Figure 1]
- All Nigerian states have reported suspected cases in 548 (70.8%) LGAs
- From the onset of this outbreak in September 12, 2017, a total of 3,015 suspected yellow fever cases have been line-listed as at week 37 **[10 September – 16<sup>th</sup> September, 2018]** (Table 1).
- Of the 3,015 suspected cases, 2,760 (91.5%), had blood samples collected and sent to the Nigerian testing laboratories for confirmation
- Of the 2,760 samples collected, **117 (4.2%) tested positive for yellow fever (presumptive positive cases) and 17 (0.6%) inconclusive results in six Nigerian laboratories** (Table 1)
- **Of the 134 (presumptive positive and inconclusive) samples in Nigeria, 47 (35.1%) samples have been confirmed positive by IP, Dakar. 77 samples were negative. Awaiting results of nine samples from IP Dakar** [Table 1].
- Predominant age groups affected among the suspected cases are 20 years and below (children and younger adults) accounting for 1881 (62.4%) [Male 1,144 (37.9%): Female 736 (24.4%)]
- Median age is 15 years (range 1 – 92 years)
- Male to female ratio is 1.4 to 1 [Male 1,734 (57.5%), Female 1,281 (42.5%)]

- Predominant age groups affected among the confirmed cases are 20 years and below (children and younger adult) accounting (57.4%)
- Among the confirmed cases, male to female ratio is 1.8:1 (male 63.8%, female 36.2%)
- Yellow fever vaccination campaigns 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 PMVC to be implemented from 22<sup>nd</sup> November – 1<sup>st</sup> December, 2018 in Sokoto, Kebbi, Niger, FCT, Plateau and some LGAs in Borno States. Target population 9 months to 44 years.
- Total number of deaths in all cases (suspected, probable and confirmed cases) is 51, while 10 deaths were recorded among confirmed cases only. Therefore, the case fatality ratio (CFR) for all cases (including suspected, probable and confirmed) is 1.7%, and 21.3% for confirmed cases.

## EPI- SUMMARY

**Table 1: Showing all affected states and cases with Yellow fever as at week 37 (10<sup>th</sup> September –16<sup>th</sup> September), 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	106	212	98	116	67	153	490	132	40	179	122	46	116	109	210	24	23	16	28	40	44	69	52	10	58	48	36	20	35	41	34	110	24	30	14	28	35	3015		
Attack Rate Per 100,000 population	2.7	3.4	2.1	3.4	1.5	3.2	11	2.8	0.5	3	2.8	0.3	0.8	4.1	2.5	0.4	1	0.4	0.3	0.5	0.8	1.2	0.9	0.2	1	1.6	1	0.5	0.6	0.8	1.7	1.8	0.5	0.4	0.4	0.9	1	1.5		
Number of LGAs with suspected cases	18	21	18	12	17	13	22	14	18	18	18	9	28	14	26	9	7	7	12	16	15	21	21	8	20	12	13	4	12	13	18	20	13	11	9	12	9	548		
Number of LGAs with Presumptive /inconclusive cases	1	3	7	2	1	1	6	2	1	6	4	2	1	1	2	1	0	0	0	3	0	3	6	1	1	1	3	3	1	2	1	0	1	0	0	0	0	67		
Number of LGAs with confirmed cases from IP Dakar	0	0	4	2	0	4	5	0	0	0	1	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	22		
Number suspected cases with Blood sample collected in Nigeria	105	210	91	77	65	63	451	132	40	179	122	46	111	69	185	24	23	16	27	40	44	69	52	9	58	48	33	20	35	41	34	110	24	30	14	28	35	2760		
Number of Presumptive Positives in Nigeria	1	5	19	12	6	24	17	1	1	5	3	1	1	1	3	2	0	0	0	2	0	1	2	1	0	0	3	3	1	0	1	1	0	0	0	0	0	117		
Number with inconclusive results in Nigeria	0	1	0	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	1	0	2	4	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	17	
Total number of samples sent to Dakar	1	6	19	13	6	24	17	1	1	4	5	2	1	1	3	2	0	0	0	3	0	3	5	1	1	1	3	1	1	2	0	0	0	0	0	0	0	0	127	
Number positive cases from IP Dakar	0	0	10	7	0	18	5	0	0	0	1	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	47	
Total number negative in Dakar	1	6	7	6	6	6	12	1	1	4	4	2	0	0	2	1	0	0	0	2	0	3	5	1	1	1	2	1	1	2	0	0	0	0	0	0	0	78		
Number awaiting result from Dakar	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Number of deaths from all cases	0	1	4	16	2	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	51	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	

**CFR for all cases = 1.7%, among the Presumptive/inconclusive cases 11.1% and among IP Dakar confirmed cases 21.3%**

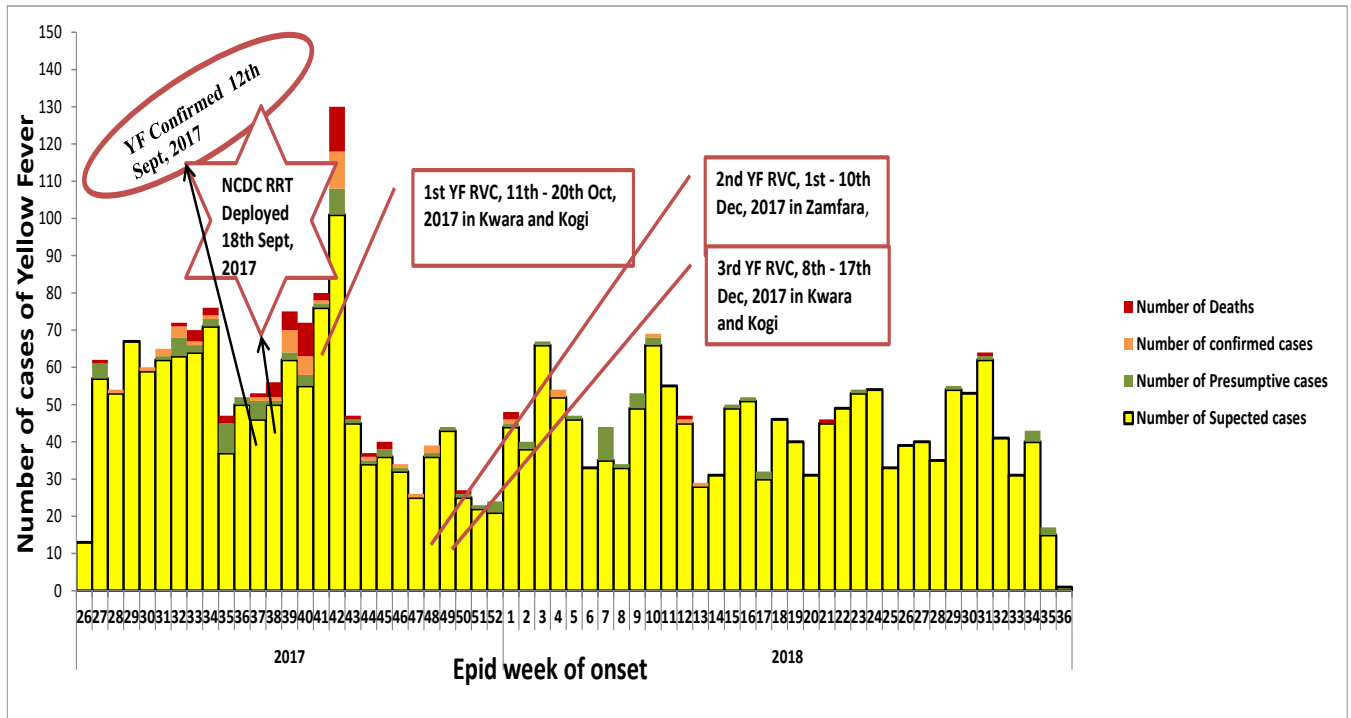


Figure 2: Epidemic curve of suspected / confirmed cases of yellow fever in Nigeria as at week 37 (10<sup>th</sup> September –16<sup>th</sup> September), 2018

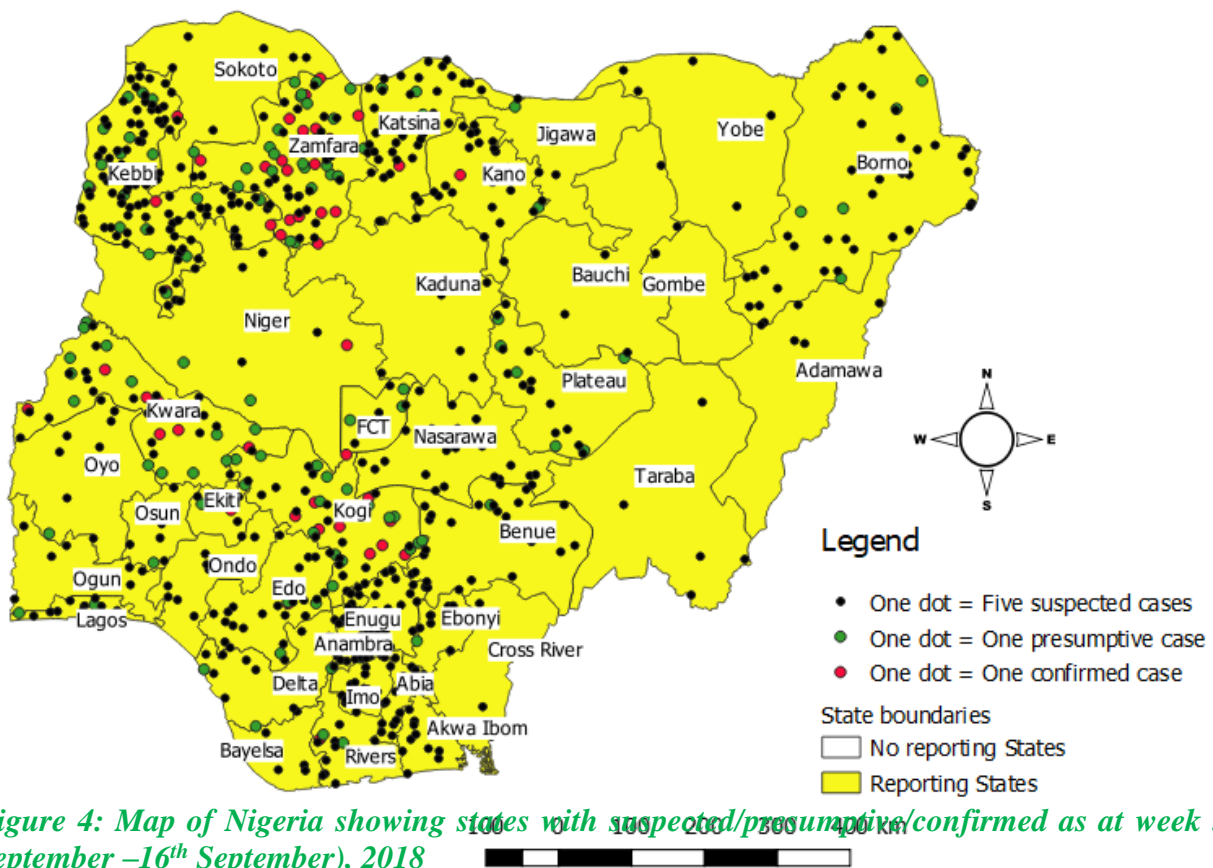


Figure 4: Map of Nigeria showing states with suspected/presumptive/confirmed as at week 37 (10<sup>th</sup> September –16<sup>th</sup> September), 2018