# SITUATION REPORT
## Nigeria Centre For Disease Control (NCDC)

**NCDC**
NIGERIA CENTRE FOR DISEASE CONTROL

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| TITLE: | YELLOW FEVER OUTBREAK IN NIGERIA |
|---|---|
| SERIAL NUMBER: | 015 |
| EPI-WEEK: | 12 |
| DATE: | 19th – 25th March, 2018 |

## HIGHLIGHTS

- In this reporting week **19th – 25th March, 2018**
  - Three new presumptive positive samples were recorded from the Kaduna Lab *(Kebbi 2, Katsina 1)*
  - Five States from the North-East States have been added to the national line list *(Adamawa, Bauchi, Gombe, Taraba and Yobe States)*
  - All the States in the country reported at least one suspected cases
  - No new Institut Pasteur (IP) Dakar confirmed case of Yellow fever in the reporting week

## SUMMARY OF OUTBREAK

- A Yellow fever outbreak is currently active in Nigeria. Confirmed cases have been recorded in seven States *(Kwara, Kogi, Kano, Zamfara, Kebbi, Nasarawa and Niger)*, in 16 Local Government areas (LGAs)

- All Nigerian States have reported suspected cases *(Abia, Borno, Kogi, Kwara, Kebbi, Plateau, Zamfara, Enugu, Oyo, Anambra, Edo, Lagos, Kano, Nassarawa, Katsina, Niger, Bayelsa, Rivers, Cross Rivers, Kaduna, Sokoto, Jigawa, Imo, Delta, Akwa Ibom, Ebonyi, Ekiti, FCT-Abuja, Ogun, Ondo, Osun, Benue, Adamawa, Bauchi, Gombe, Taraba and Yobe States)* in 338 LGAs

- From the onset of this outbreak on September 12, 2017, a total of 1,640 suspected Yellow fever cases have been line-listed as at week 12 *[19th -25th March, 2018 (Table 1)]*.

- Of the 1,640 suspected cases, 1,470 (89.6%), had blood samples collected and sent to the laboratory for confirmation.

- Of the 1,470 samples collected, **99 (6.7%) tested positive for yellow fever (presumptive positives) and 16 (1.1%) inconclusive results in five Nigerian laboratories**.

- As at Epid week 12 *(19th - 25th March, 2018)*, **41 samples (35.7%) out of the 115 samples *(positive and inconclusive)* in Nigeria were confirmed positive by Institut Pasteur (IP) Dakar. 71 samples were negative, 3 samples are awaiting shipment to Institut Pasteur (IP) Dakar** [Table 1].

- Predominant age groups affected are 20 years and below accounting for 63.6% (See fig 3).
  - Median age is 14 years *(range 1 – 92 years)*
  - Male to female ratio is 1.4 to 1 *(male 58.5%, female 41.5%)*
  - Among the confirmed, male to female ratio is 3:2 *(male 61.0%, female 39.0%)*
- Yellow fever vaccination campaigns have been successfully completed in Six States
  - 2013 Preventive mass vaccination campaign (PMVC) 2013 in Nasarawa, Cross River, Akwa Ibom;

o   Preventive mass vaccination campaign in 2018 in Kogi, Kwara and Zamfara and in fifty-eight political wards in 25 LGAs in Borno State;

o   Yellow fever reactive vaccination campaign completed in Kebbi and Sokoto States while that of Niger State is ongoing.

- Total number of deaths in all cases *(suspected, probable and confirmed cases)* is 47, while **10 deaths were recorded among confirmed cases only**. Therefore, the case fatality ratio (CFR) for all cases *(including suspected, probable and confirmed)* is 2.8%, and 24.4% for confirmed cases.

## EPI- SUMMARY

*Table 1: Showing all affected States and cases with Yellow fever between 19th-25th March, 2018*

| State | 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 | 82 | 217 | 67 | 116 | 8 | 133 | 253 | 64 | 13 | 78 | 76 | 37 | 76 | 47 | 64 | 19 | 1 | 11 | 9 | 12 | 33 | 27 | 33 | 6 | 22 | 24 | 6 | 14 | 13 | 18 | 16 | 33 | 4 | 3 | 2 | 2 | 1 | 1640 |
| Number of LGAs with suspected cases | 14 | 21 | 19 | 12 | 5 | 10 | 19 | 14 | 11 | 13 | 18 | 9 | 24 | 12 | 14 | 8 | 1 | 6 | 5 | 9 | 11 | 13 | 17 | 6 | 10 | 9 | 5 | 5 | 7 | 9 | 12 | 15 | 4 | 2 | 1 | 2 | 1 | 373 |
| Number of LGAs with Presumptive /inonclusive cases | 1 | 3 | 6 | 2 | 1 | 4 | 6 | 2 | 1 | 2 | 4 | 2 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 4 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Number of LGAs with confirmed cases from IP Dakar | 0 | 0 | 4 | 2 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Number with Blood samples collected in Nigeria | 81 | 215 | 67 | 77 | 8 | 48 | 253 | 64 | 13 | 78 | 76 | 37 | 75 | 7 | 63 | 19 | 1 | 11 | 9 | 12 | 33 | 27 | 33 | 6 | 23 | 22 | 6 | 14 | 13 | 18 | 16 | 33 | 4 | 3 | 2 | 2 | 1 | 1470 |
| Number of Presumptive Positives in Nigeria | 1 | 5 | 17 | 12 | 5 | 24 | 17 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 |
| Number with inconclusive results | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total number of samples sent to Dakar | 1 | 6 | 17 | 13 | 5 | 24 | 17 | 1 | 1 | 3 | 4 | 2 | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 4 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 115 |
| Number positive cases from IP Dakar | 0 | 0 | 10 | 7 | 0 | 18 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| Total number negative in Dakar | 1 | 6 | 7 | 6 | 5 | 6 | 12 | 1 | 1 | 3 | 4 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 4 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71 |
| Number awaiting result from Dakar | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Number of deaths from all cases | 0 | 1 | 4 | 16 | 0 | 26 | 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 | 47 |
| 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 | 14 |
| Number of deaths from 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 | 10 |

*CFR for all cases = 2.8%: among the Presumptive/inconclusive cases - 12.2%; and among Institut Pasteur (IP) Dakar confirmed cases - 24.4%*
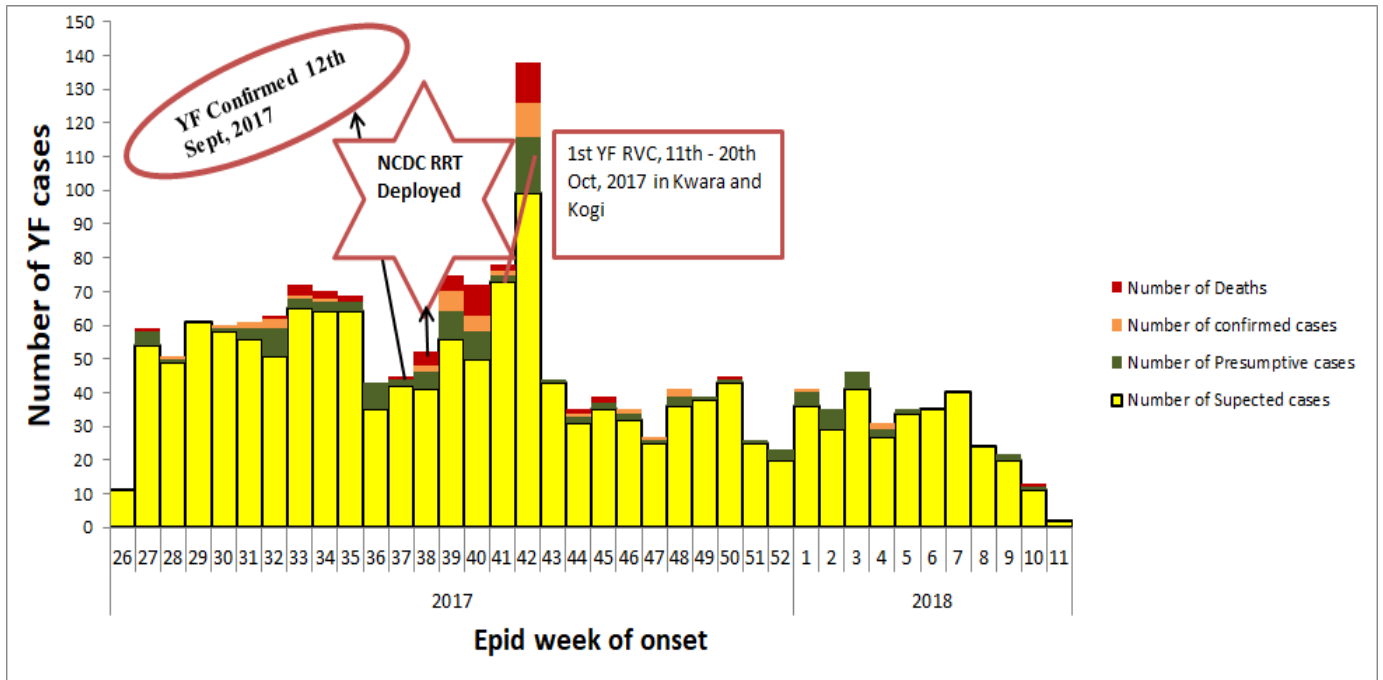
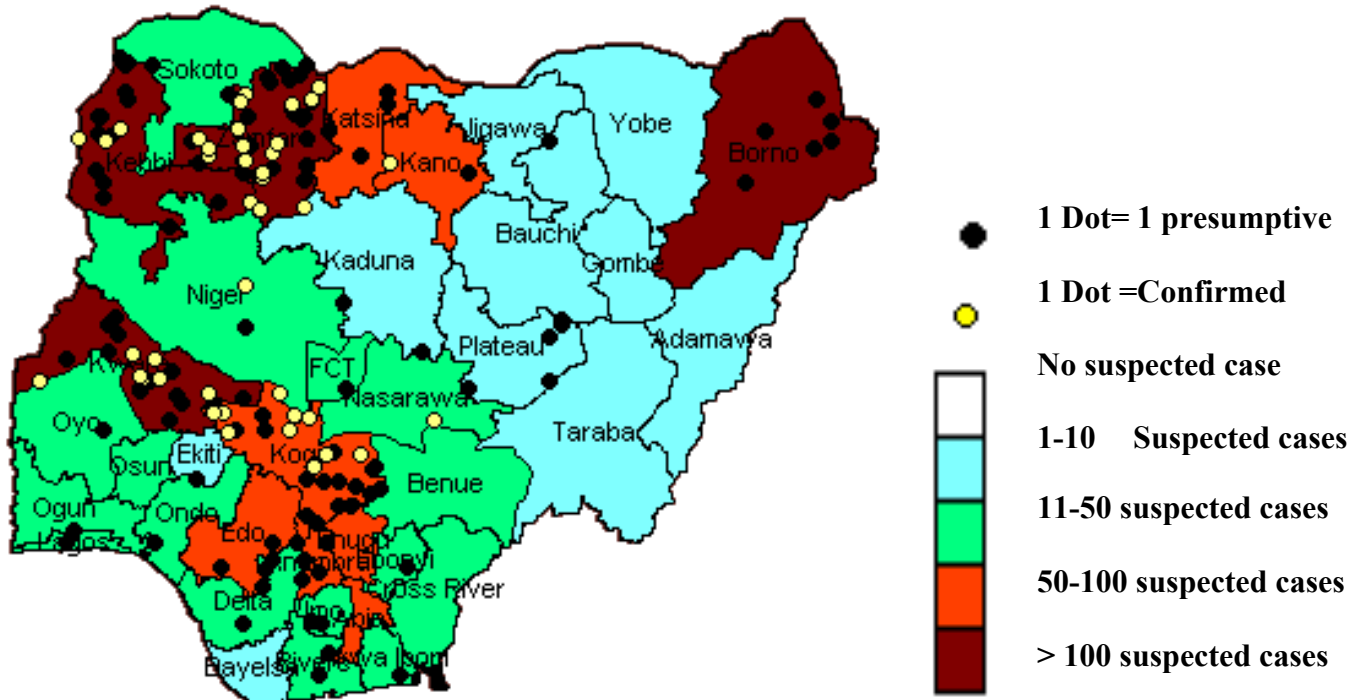**Figure 1; Epicurve of Yellow fever cases *12th-18th March 2018,* by States**



*Figure 2: Map of Nigeria showing States with suspected/presumptive positive and confirmed cases of Yellow fever, 12th-18th March 2018*
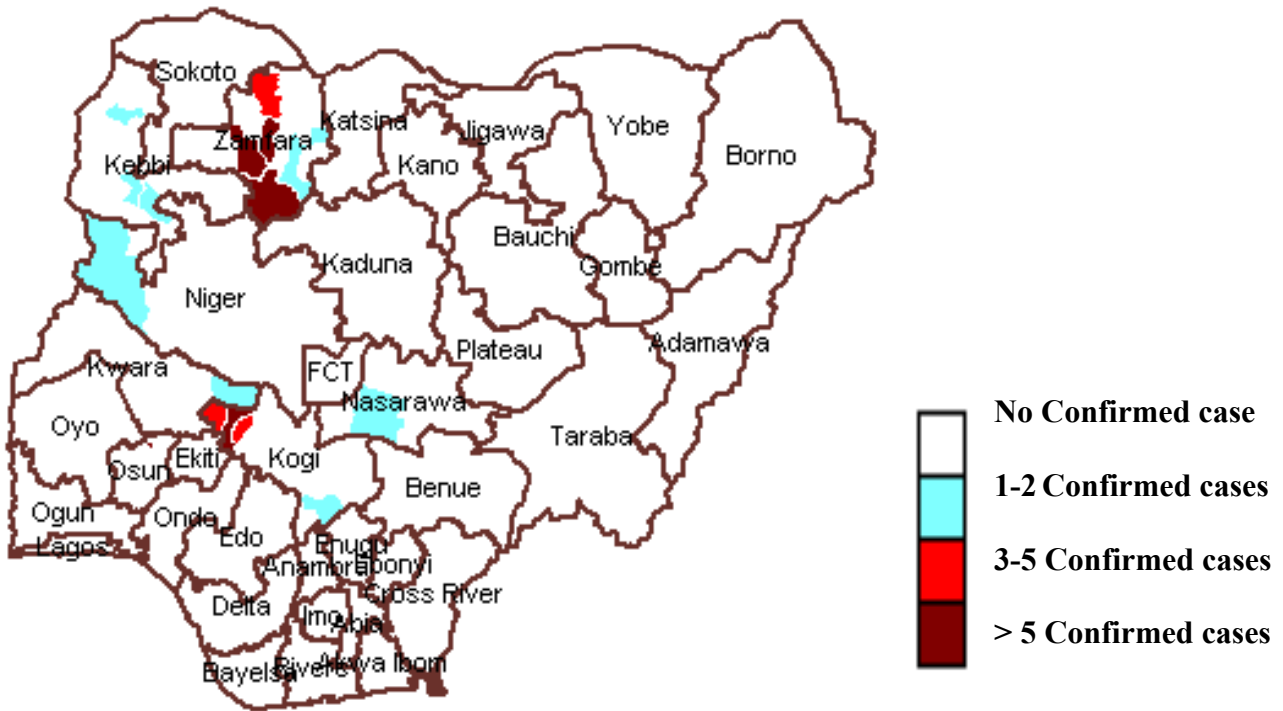
**Legend (Figure 3):**
- No Confirmed case
- 1-2 Confirmed cases
- 3-5 Confirmed cases
- > 5 Confirmed cases

*Figure 3: Map of Nigeria showing LGAs with confirmed cases of Yellow fever, 12th-18th March, 2018*



**Legend (Figure 4):**
- States without any YF vaccination activity
- YF PMVC completed in the States
- YF vaccination activity in some LGAs
- States with confirmed YF and planned RVC in some LGAs
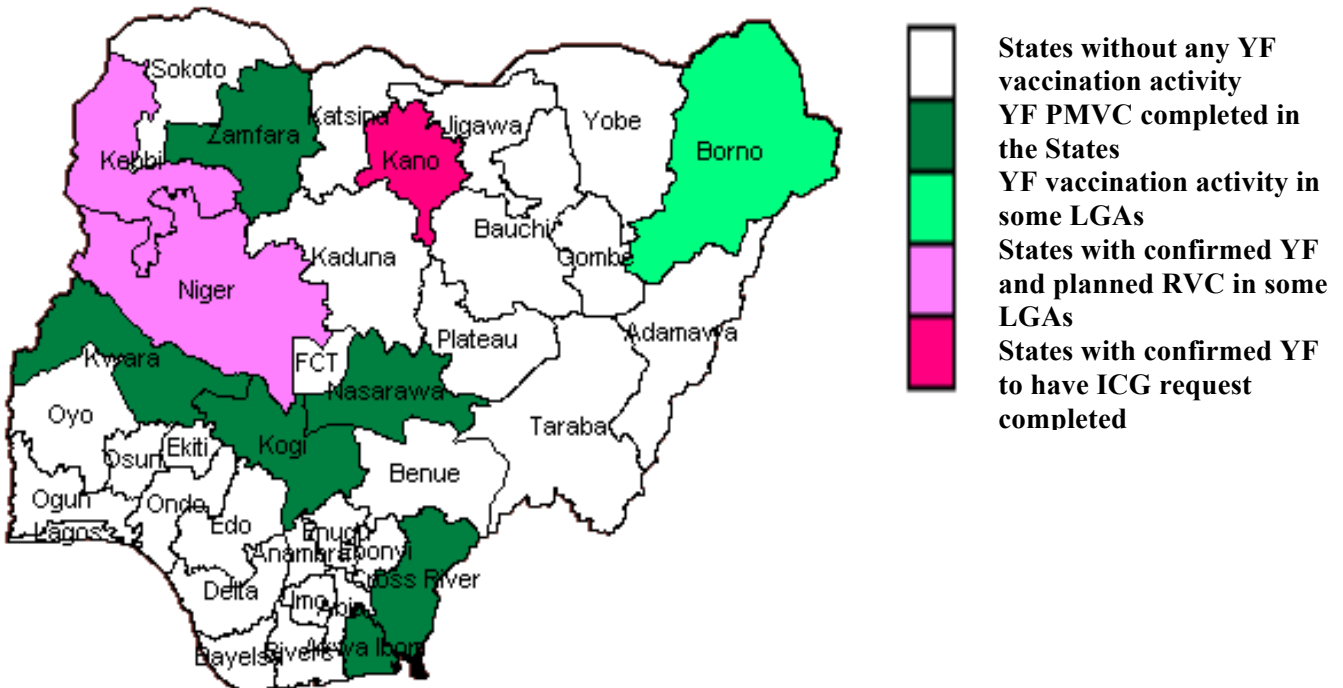- States with confirmed YF to have ICG request completed

*Figure 4: Map of Nigeria showing States that have received YF vaccination campaign as at, 12th-18th March 2018*