



Weekly Epidemiological Report

Week 38: 16th – 22nd September, 2019

Highlight of the Week

Building in-country Capacity for Genetic Sequencing: NCDC National Reference Laboratory



In 2018, Nigeria recorded a large outbreak of Lassa fever. As at the 29th of September 2019, 701 confirmed cases have been reported this year - more than the number of cases recorded in 2018. The Nigeria Centre for Disease Control (NCDC) continues to work closely with stakeholders, in improving knowledge on Lassa fever through research activities and epidemiological studies. One of these is in collaboration with the UK-Public Health Rapid Support Team (UK-PHRST) to identify other pathogens that may be causing illnesses similar to Lassa fever.

Lassa fever commonly presents with acute febrile illness. However, one critical question is “***what pathogens are circulating that could be responsible for the systemic febrile illness among the over 1000 Lassa fever negative samples which met the case definition criteria for Lassa fever during the 2018 LF outbreak?***”

NCDC and UK-PHRST have begun a study aimed at identifying the likely pathogen(s) circulating in Nigeria which are clinically indistinguishable from Lassa fever and responsible for significant disease burden during a Lassa fever virus outbreak. This innovation employs the use of ***TaqMan array card*** with pre-spotted single-plex real time PCR reactions with the ability to screen a single sample for up to 50 pathogens. Identified pathogens are being confirmed using Minlon sequencing. All testing and sequencing are done at the NCDC National Reference Laboratory.

When completed, one major benefit of this approach is the possibility of identifying a causative pathogen in Lassa-negative samples, which would allow recommendations and revisions of current testing algorithm. This could also lead to improved patient care, surveillance data and inform public health policy.

In addition to the contribution to science, this collaboration with UKPHRST is supporting the growth of in-country capacity for genetic sequencing in Nigeria and leadership by local experts.

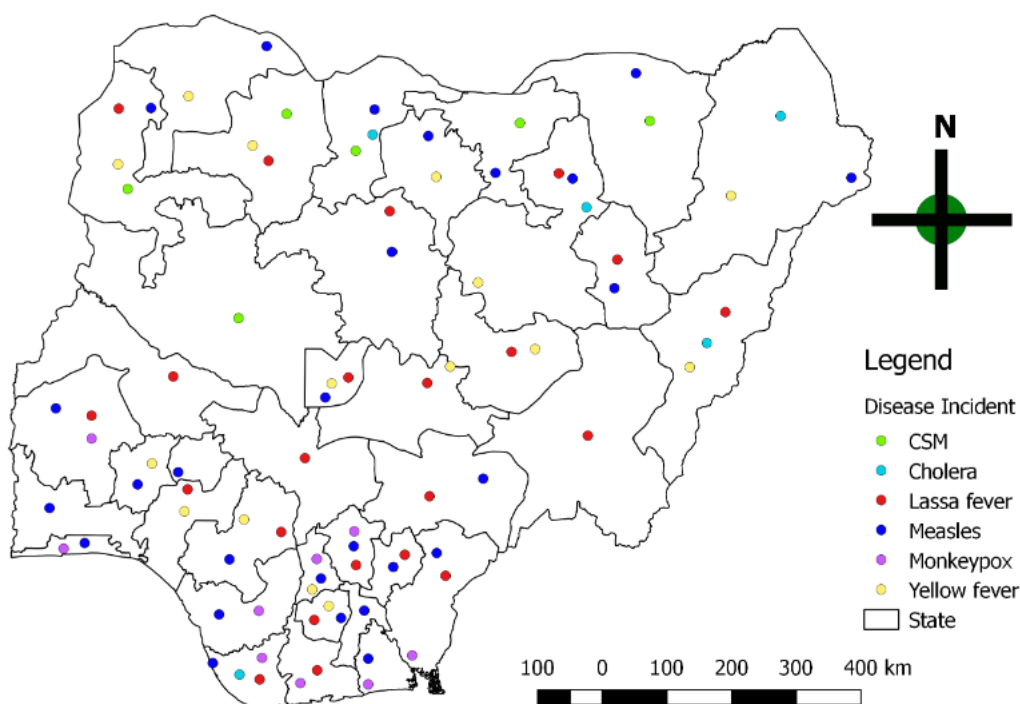
Summary of Incidents

Ongoing incidents

1

Ongoing Incidents are defined as confirmed cases where a national EOC or equivalent has been activated (EOC is currently activated for Yellow Fever)

Other incidents are those confirmed cases for which EOC is not activated



Data source: SITAware

Summary

Week 38: 16th – 22nd September 2019

Lassa Fever_{1,2}	Cerebrospinal Meningitis (CSM)_{3,4}	Yellow Fever_{3,4}
100 Suspected cases	24 Suspected cases	89 Suspected cases
7 Confirmed case(s)	0 Confirmed cases	0 Confirmed cases
2 Death(s)	0 Death(s)	5 Death(s)
Cholera_{3,4}	Measles_{3,4}	Monkeypox_{1,4}
32 Suspected cases	314 Suspected cases	6 Suspected case(s)
11 Confirmed cases	0 Confirmed cases	1 Confirmed cases
0 Death(s)	0 Death(s)	0 Death(s)
Acute Flaccid Paralysis (AFP)_{3,4}	National Sentinel influenza surveillance₅	
107 Suspected cases	0 Suspected cases	
0 Confirmed Polio	0 Confirmed cases	

Timeliness of reports₃	Completeness of reports₃
93.3% Last 4 weeks	98.7% Last 4 weeks
89% Year to date	99.6% Year to date

Notes

1. Information for this disease was retrieved from the Technical Working Group and Situation Reports
2. Case Fatality Rate (CFR) for this disease is reported for confirmed cases only
3. Information for this disease was retrieved from IDSR 002 data
4. CFR for this disease is reported for total cases i.e. suspected + confirmed
5. Information for sentinel influenza was retrieved from the laboratory

Lassa Fever

Week 38

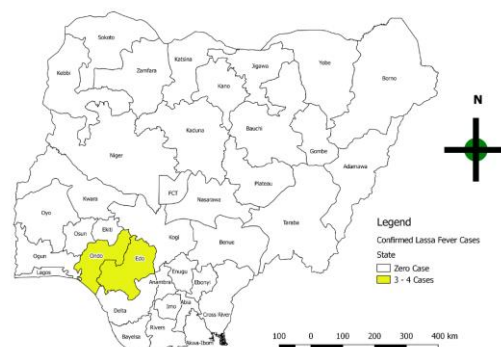
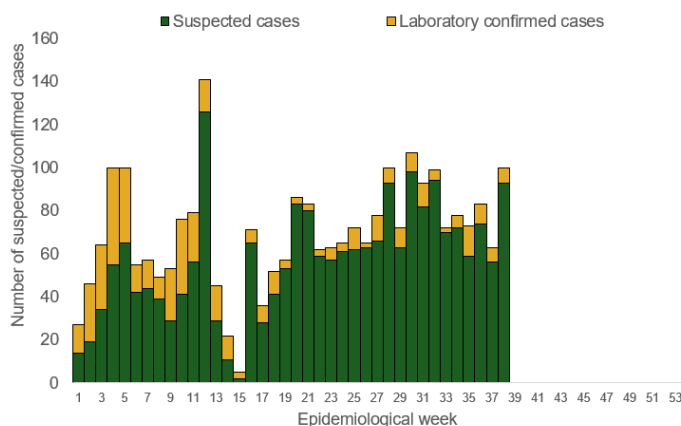
Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
100	7	2	State: 10 LGA: 14

Year to date (week 1 – 38)

Suspected cases	Confirmed cases	Deaths	CFR
2018 2019	2018 2019	2018 2019	2018 2019
2576 3827	510 701	134 151	26.3% 21.5%

Figure 1: Number of suspected and confirmed cases of Lassa Fever, Nigeria, Week 1 – 38, 2019

Figure 2: Location of **confirmed** cases of Lassa Fever by state, Nigeria, week 38, 2019



Key points

- There were 100 suspected cases of Lassa Fever (LF) reported from 14 LGAs in 10 states (Edo – 49, Ondo – 19, Ebonyi – 7, Bauchi – 5, Taraba – 8, Benue – 1, Kogi – 1, Enugu – 3, Delta – 1, Lagos – 3 & Abia - 3). There were seven confirmed cases and two deaths were recorded
- *Data cleaning and validation revealed all three FCT cases were imported from neighbouring states and so it was removed from list of affected states*

Actions

To date:

- National Lassa Fever multi-partner, multi-sectoral Technical Working Group (TWG) continues to coordinate the response activities at all levels
- Deployment of surge staff to Federal Medical Centre, Owo, Ondo state and Irrua Specialist Teaching Hospital, Edo state treatment centres
- Dissemination of reviewed case management and safe burial practices guidelines

Planned:

- Implement phase 2 of rodent control measures in hotspot LGAs
- Conduct a meeting to finalise the LF psychosocial guideline meeting in October 2019
- Review LF case management, and surveillance tools and SOPs in October 2019

Cerebrospinal Meningitis (CSM)

Week 38

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
24	0	0	State: 5 LGA: 12

Year to date (week 1 – 38)

Suspected cases	Confirmed cases	Deaths	CFR
2018 2019	2018 2019	2018 2019	2018 2019
4324 1660	318 101	356 74	8.2% 4.6%

Figure 3: Number of suspected and confirmed cases of CSM, Nigeria, week 1 – 38, 2019

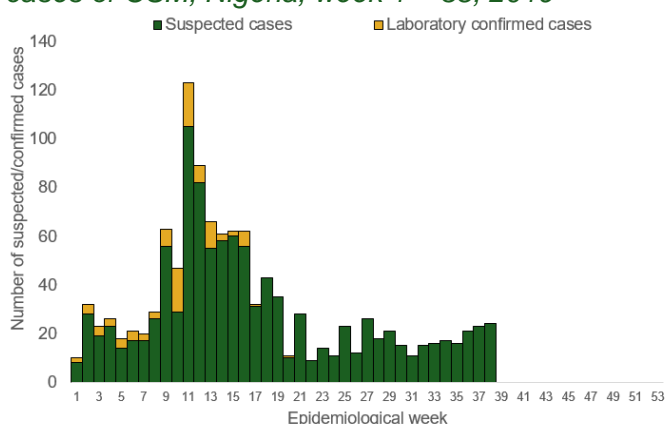
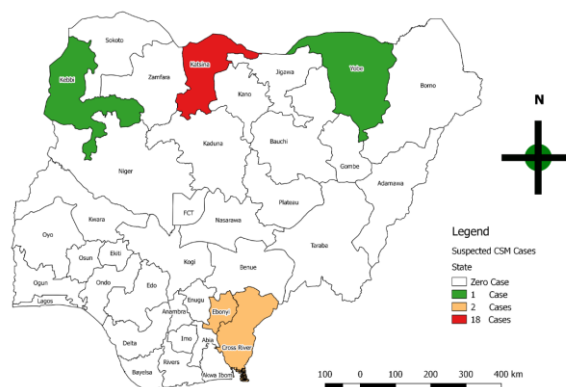


Figure 4: Location of suspected cases of CSM by State, Nigeria, week 38, 2019



Key points

There were 24 suspected cases of Cerebrospinal Meningitis (CSM) reported from 12 LGAs in five states (Cross River – 2, Ebonyi – 2, Katsina – 18, Kebbi – 1 & Yobe – 1). None was laboratory confirmed and no death was recorded

Actions

To date:

- The national CSM TWG meets weekly to review reports from states and plan appropriately

Planned:

- Conduct After Action Review (AAR)
- Harmonise surveillance and laboratory data
- Establish a mechanism for getting weekly feedback from states

Yellow Fever

Week 38

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
89	0	5	State: 23 LGA: 52

Year to date (week 1 – 38)

Suspected cases		Confirmed cases		Deaths		CFR	
2018	2019	2018	2019	2018	2019	2018	2019
1964	2675	7	48	1	65	0.1%	2.4%

Figure 5: Number of suspected and confirmed cases of Yellow Fever, Nigeria, week 1 – 38, 2019

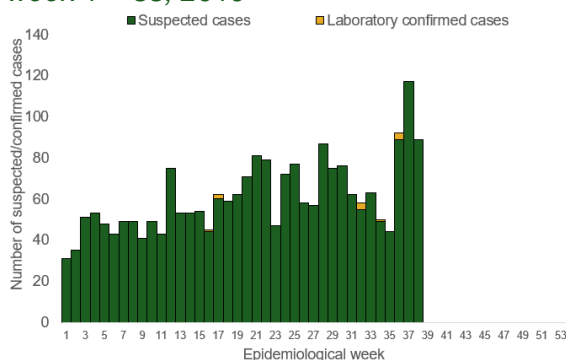
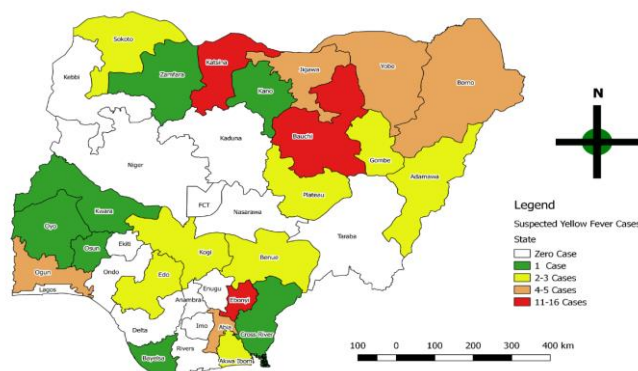


Figure 6: Location of suspected cases of Yellow Fever by State, Nigeria, week 38, 2019



Key points

There were 89 suspected cases of Yellow Fever (YF) reported from 52 LGAs in 23 states. None was laboratory confirmed and five deaths were recorded

Actions

To date:

- A national multiagency YF Incident Management System (IMS) is coordinating response activities
- Offsite support is being provided to all affected states
- Preventive mass vaccination campaign is ongoing in all LGAs of Katsina state
- Harmonisation of surveillance and laboratory data as well as updating of SORMAS platform
- Operationalisation of the three new laboratories added to the YF laboratory network

Planned:

- Continue on-site and off-site support to affected states
- Conduct preventive mass vaccination in Rivers, Ekiti and Anambra states in the fourth week of November, 2019
- Follow up with ICG request for the affected states
- Scale up risk communication activities, advisories and press release

Cholera

Week 38

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
32	11	0	State: 2 LGA: 4

Year to date (week 1 – 38)

Suspected cases		Confirmed cases		Deaths		CFR	
2018	2019	2018	2019	2018	2019	2018	2019
41393	2477	758	287	1006	38	2.4%	1.5%

Figure 7: Number of suspected and confirmed cases of Cholera, Nigeria, week 1 – 38, 2019

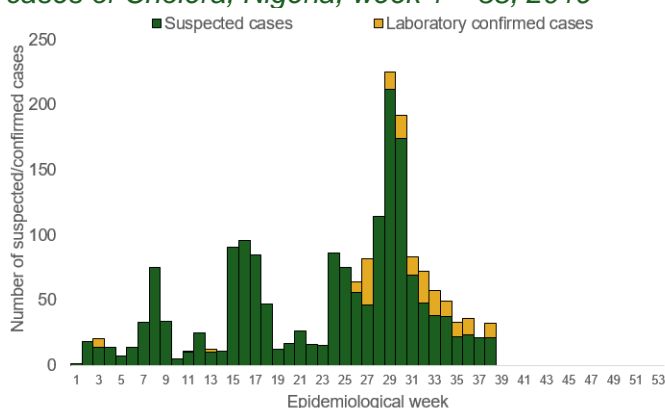
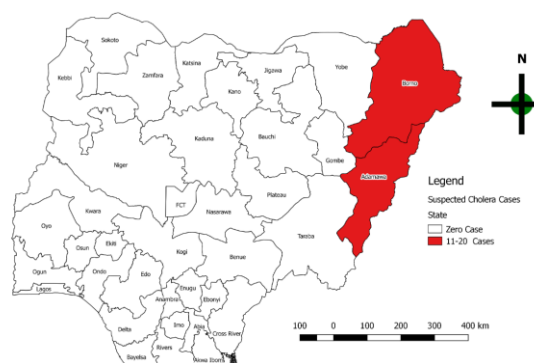


Figure 8: Location of suspected cases of Cholera by State, Nigeria, week 38, 2019



Key points

There were 32 suspected cases of Cholera reported from four LGAs in two states (Adamawa – 21 & Borno – 11). There were 11 laboratory confirmed cases and no death was recorded

Actions

To date:

- The national Cholera TWG continues to coordinate activities in states in collaboration with the Federal Ministry of Water Resources (FMWR) and support from partners
- Adamawa state EOC continues to coordinate response activities with support from partners

Planned:

- Follow up with states with active outbreak and monitoring of non-reporting states

Measles

Week 38

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
314	0	0	State: 28 LGA: 138

Year to date (week 1 – 38)

Suspected cases	Confirmed cases	Deaths	CFR
2018 2019	2018 2019	2018 2019	2018 2019
14309 55216	21 2089	115 275	0.8% 0.5%

Figure 11: Number of suspected and confirmed cases of Measles, Nigeria, week 1 – 38, 2019

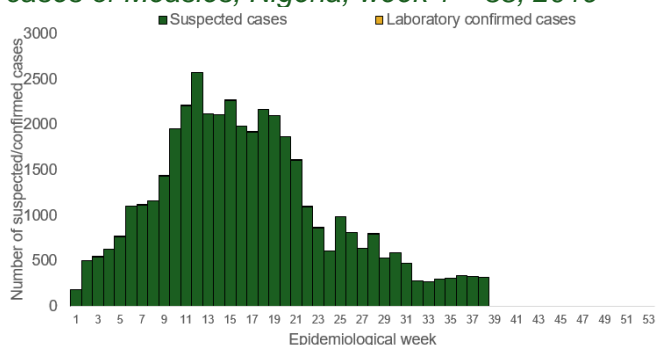
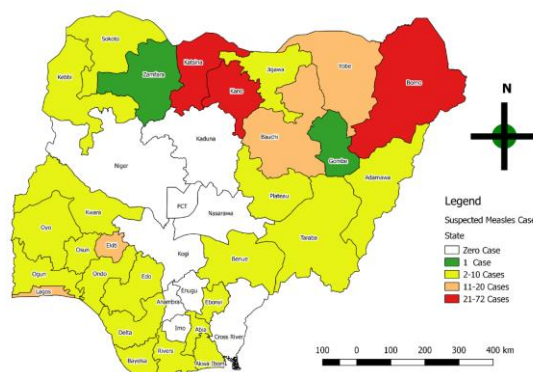


Figure 12: Location of suspected cases of Measles by State, Nigeria, week 38, 2019



Key points

There were 314 suspected cases of measles reported from 138 LGAs in 28 states. None was laboratory confirmed and no death was recorded

Actions

To date:

- The measles TWG is closely monitoring surveillance data and response activities across the country
- The TWG is working closely with NPHCDA towards measles Supplemental Immunization Activity in Nigeria

Planned:

- Continue the review of measles surveillance data across the country
- Finalise measles surveillance guideline

Monkeypox

Week 38

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
6	1	0	State: 4 + FCT LGA: 5

Year to date (week 1 – 38)

Suspected cases	Confirmed cases	Deaths	CFR
2018 2019	2018 2019	2018 2019	2018 2019
89 75	47 33	1 2	1.1% 2.7%

Figure 13: Number of suspected and confirmed cases of Monkeypox, Nigeria, week 1–38, 2019

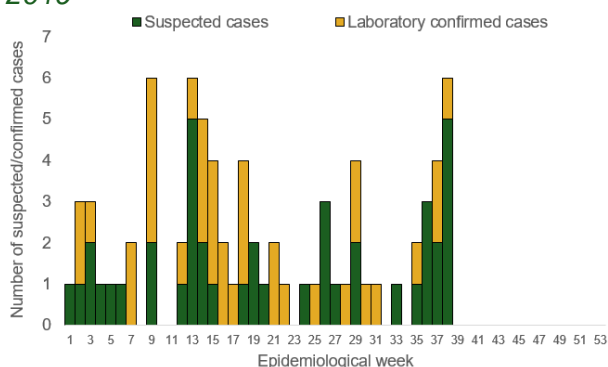
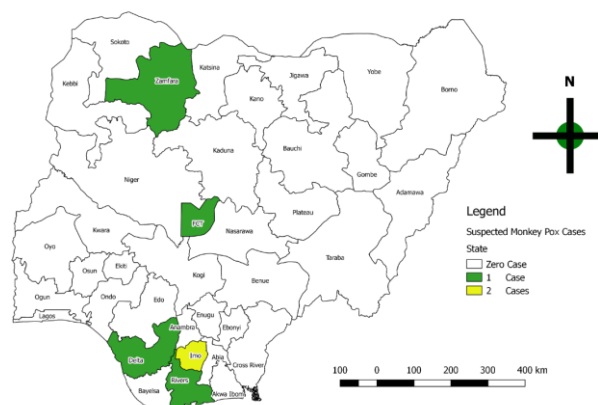


Figure 14: Location of suspected cases of Monkeypox by State, Nigeria, week 38, 2019



Key points

- There were six suspected cases of monkeypox reported in five LGAs in four states and FCT (Delta – 1, FCT – 1, Imo – 2, Rivers – 1 & Zamfara - 1) this week. There was one confirmed case from Rivers state and no death was recorded
- The cases from Delta and FCT were confirmed for chickenpox (*Varicella Zoster Virus*)

Actions

To date:

- The national monkeypox TWG is monitoring and coordinating response activities across the states
- Surveillance has been enhanced in all affected states
- Offsite support is being provided to the affected states

Acute Flaccid Paralysis (AFP)

Week 38

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
107	0	0	State: 30 + FCT LGA: 98

Year to date (week 1 – 38)

Suspected cases		Confirmed cases		Deaths		CFR	
2018	2019	2018	2019	2018	2019	2018	2019
6336	4837	0	0	0	0	0%	0%

Figure 15: Number of suspected and confirmed cases of AFP, Nigeria, week 1– 38, 2019

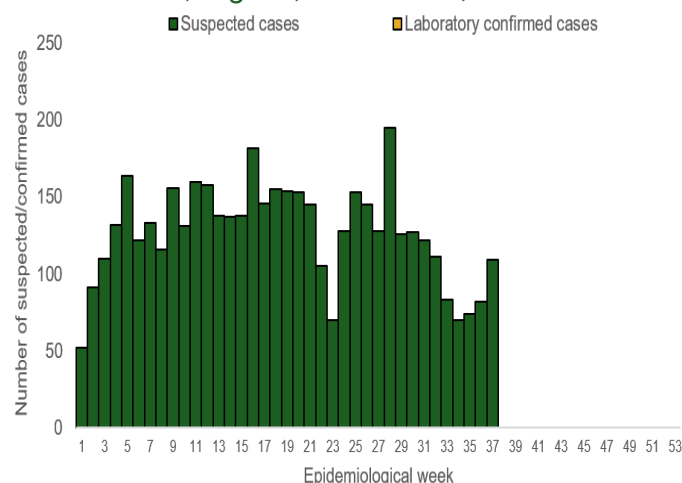
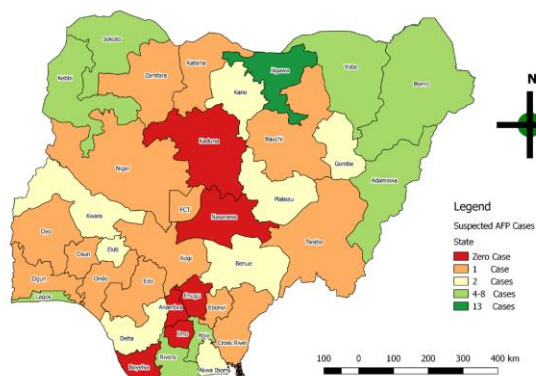


Figure 16: Location of suspected cases of AFP by State, Nigeria, week 38, 2019



Key points

- There were 107 suspected cases of AFP reported from 98 LGAs in 30 states and FCT. None was laboratory confirmed and no death was recorded

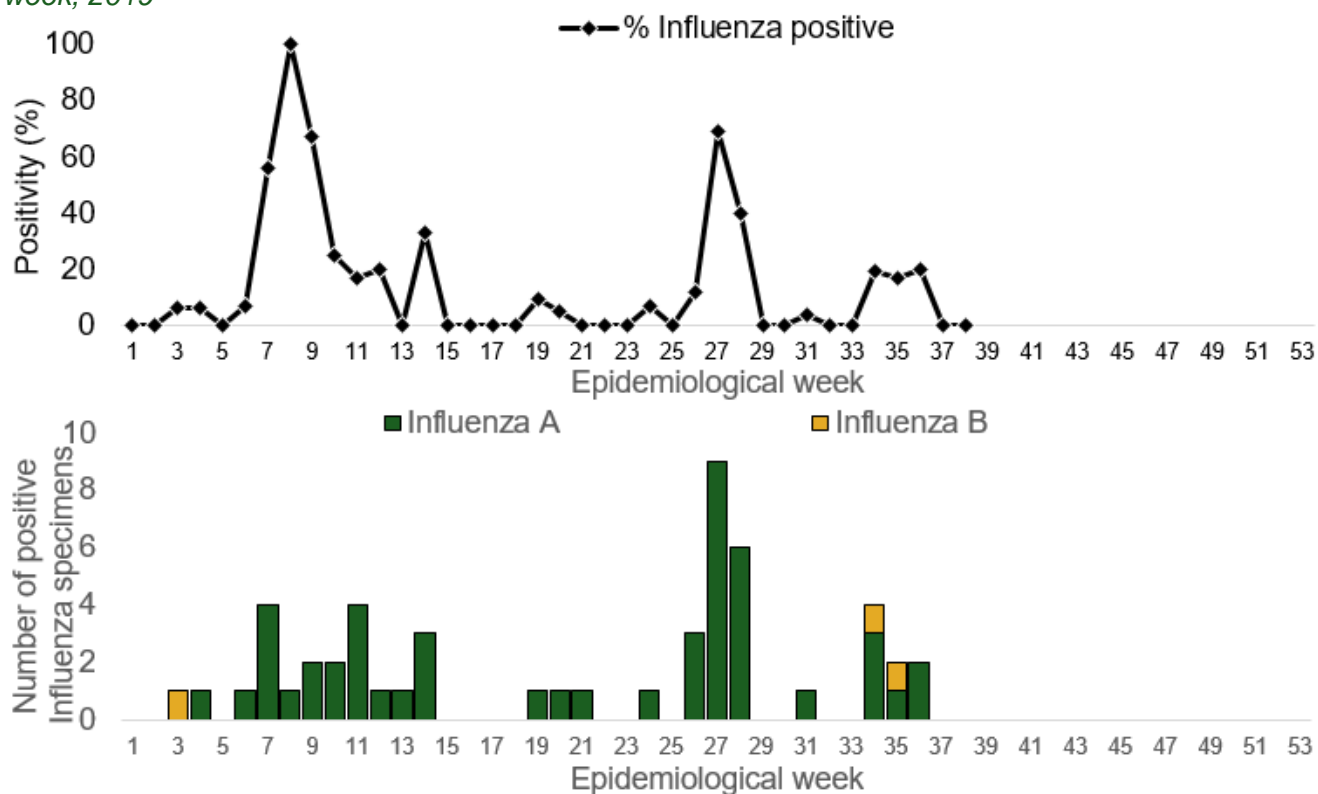
National Influenza Sentinel Surveillance

Year to date (week 1 – 38)

	Suspected cases	Suspected ILI	Suspected SARI
Number (Percentage)	422	382 (90.5%)	40 (9.5%)

	Confirmed cases		Confirmed ILI		Confirmed SARI	
	Influenza A	Influenza B	Influenza A	Influenza B	Influenza A	Influenza B
Number	53	3	49	3	4	0
Positivity (%)	13%	0.8%	13.3%	0.3%	11%	0%

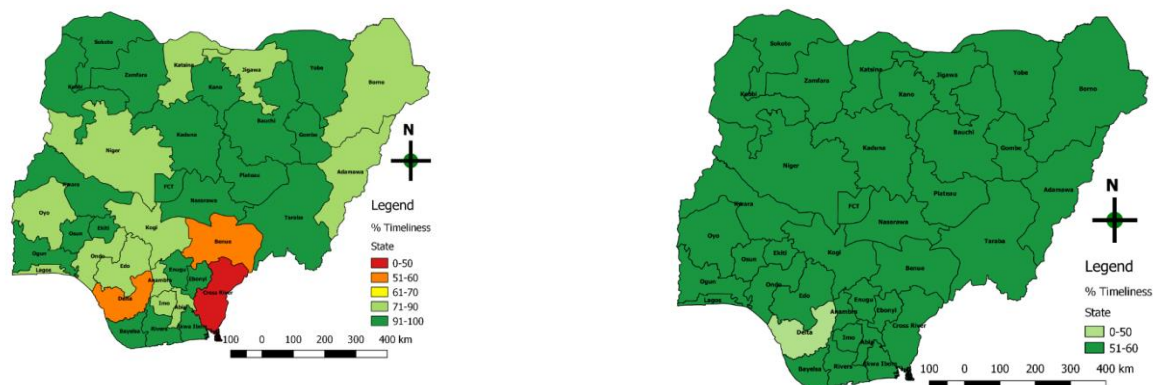
Figure 17: Number of influenza positive specimens by type and percent positive by epidemiological week, 2019



Timeliness and Completeness of Reports

Last 4 weeks (week 35 - 38, 2019)

Figure 18: A – Timeliness by State (%); B – Completeness by State (%), week 35 – 38, 2019



Number of reports received on time, late or not received, the percentage timeliness and completeness, in the last 4 weeks and year to date

Nigeria Total Reports	Last 4 weeks Week 35 – 38	Year to date Week 1 - 38
Reports sent on time	138	1252
Reports sent late	8	149
Reports not received	2	5
Timeliness	93.3%	89%
Completeness	98.7%	99.6%

States with reports not received in 2019 (week 1 – 38)

State	Week(s) report not received
Anambra	38
Delta	8, 10, 12
Enugu	38

Timeliness and Completeness of Reports by State

Year to date (week 1 – 38)

State	Timeliness (%)	Completeness (%)
Abia	87	100
Adamawa	89	100
Akwa Ibom	95	100
Anambra	87	97
Bauchi	92	100
Bayelsa	100	100
Benue	58	100
Borno	89	100
Cross River	47	100
Delta	53	92
Ebonyi	97	100
Edo	87	100
Ekiti	100	100
Enugu	92	97
FCT	100	100
Gombe	95	100
Imo	89	100
Jigawa	76	100
Kaduna	92	100
Kano	100	100
Katsina	89	100
Kebbi	95	100
Kogi	89	100
Kwara	97	100
Lagos	82	100
Nasarawa	95	100
Niger	89	100
Ogun	95	100
Ondo	74	100
Osun	100	100
Oyo	87	100
Plateau	92	100
Rivers	92	100
Sokoto	100	100
Taraba	95	100
Yobe	100	100
Zamfara	97	100