



Nigeria Centre for Disease Control
Protecting the health of Nigerians

Weekly Epidemiological Report

Week 2: 11th – 17th January 2021

Highlight of the Week

Building In-country Capacity for Molecular Diagnostic Testing in Nigeria



Since 2014, Nigeria has continued to experience major outbreaks of epidemic-prone diseases (EPDs) including Ebola virus disease (2014), polio re-emergence (2016), cerebrospinal meningitis of new serotype C (2017), monkeypox (2017), Lassa fever (2018 & 2019) and the ongoing coronavirus disease 2019 (since 2020 till date). With this increasing risk, the capacity and capability to promptly detect and characterise the causative agents of epidemic prone diseases using molecular diagnostic platforms is a major priority for Nigeria.

In recognition of this, the Nigeria Centre for Disease Control (NCDC) has continued to build the capacity of the critical mass of the national and subnational workforce in the area molecular diagnostic techniques. The NCDC National Reference Laboratory organised a five-day training (from February 1-5, 2021) on molecular diagnostics and pathogen determination for the NCDC Public Health Laboratory network. The participants included scientists from NCDC's National Reference Laboratory (NRL) and 15 states across Nigeria.

The goal of the training is to strengthen the molecular diagnostic capacity of the public health laboratory workforce in Nigeria. This will enhance the ability to produce accurate and reliable results to define public health intervention and control measures. The specific objectives were to:

1. Provide participants with sound knowledge on a variety of nucleic acid-based procedures for molecular diagnostics.
2. Provide hands-on training on selected nucleic acid-based procedures so as to increase the participants' skills and confidence in performing the procedures.
3. Teach laboratory internal quality control and containment procedures for PCR.
4. Provide guidance in compliance with applicable regulations.
5. Enhance participants' PCR troubleshooting skills.

A total of 30 participants were trained with focus on the theory and application of selected molecular diagnostics-based procedures. Other areas of the training included laboratory inventory management systems, biosafety/biosecurity measures, infection prevention and control mechanisms and laboratory waste management. A major outcome of this training is an additional pool of laboratory personnel with sound knowledge of the above especially in the context of highly infectious pathogens. We intend to train laboratory workforce in public health settings across all 36 states including the Federal Capital Territory.

We are grateful to our partners: World Bank, World Health Organization, US Centers for Disease Control, Public Health England, Institute of Human Virology, Nigeria, APIN Public Health Initiatives, Georgetown University, FIND and Medical and Laboratory Science Council of Nigeria for their support during the training.

The Nigeria Centre for Disease Control will continue to put measures in place to ensure the prevention, preparedness for, rapid detection and control of infectious disease outbreaks.

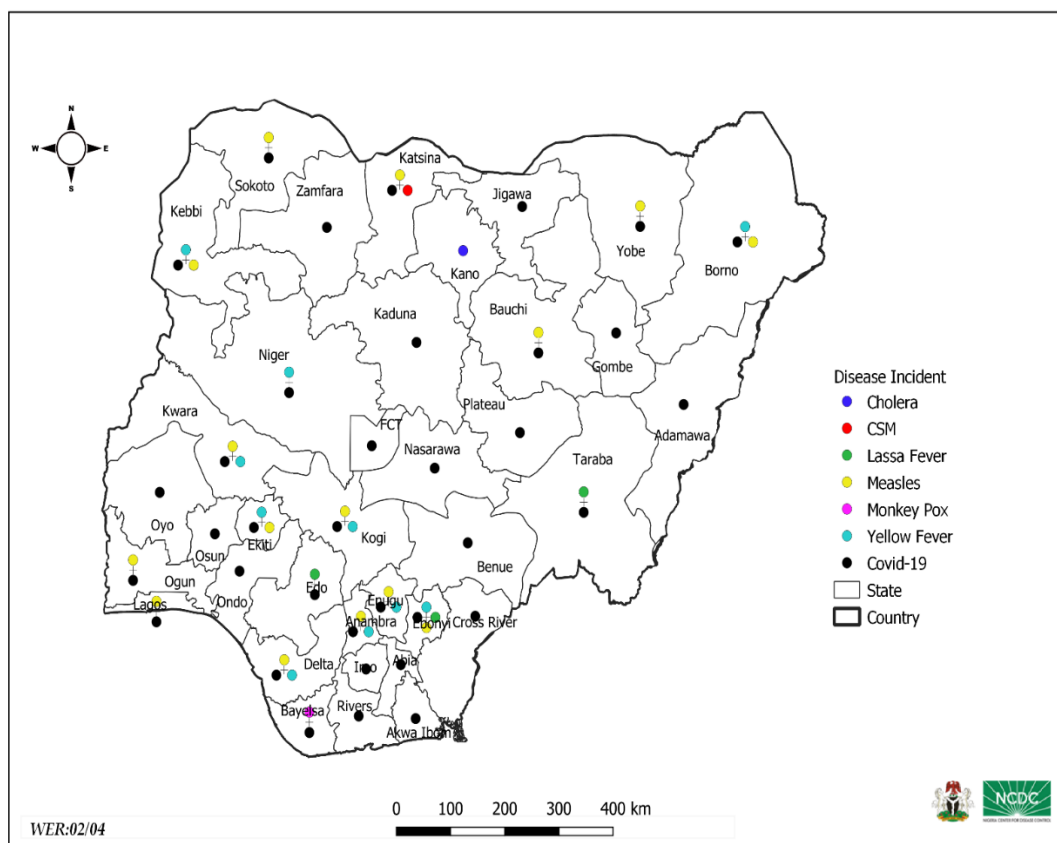
Summary of Incidents

Ongoing incidents

2

Ongoing incidents are defined as confirmed cases where a national EOC or equivalent has been activated (EOC is currently activated for COVID-19 and Yellow fever).

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



Data Source: SITAware

Summary

Week 2: 11th – 17th January 2021

(Coronavirus Disease as at 31st January 2021)

Lassa Fever _{1,2}	Cerebrospinal Meningitis (CSM) _{3,4}	Yellow Fever _{3,4}
117 Suspected case(s)	2 Suspected case(s)	16 Suspected case(s)
14 Confirmed case(s)	0 Confirmed case(s)	0 Confirmed case(s)
2 Death(s)	0 Death(s)	0 Death(s)
Cholera _{3,4}	Measles _{3,4}	Monkeypox _{1,4}
0 Suspected case(s)	207 Suspected case(s)	2 Suspected case(s)
0 Confirmed case(s)	3 Confirmed case(s)	1 Confirmed case(s)
0 Death(s)	1 Death(s)	0 Death(s)
Acute Flaccid Paralysis (AFP) _{3,4}	National Sentinel influenza surveillance ₅	Coronavirus Disease as at week 4 ₂
51 Suspected case(s)	15 Suspected case(s)	1,355,412 Suspected case(s)
0 Confirmed case(s)	0 Confirmed case(s)	131,242 Confirmed case(s)
		1,586 Death(s)

Timeliness of reports ₃	Completeness of reports ₃
100% Last 4 weeks	100% Last 4 weeks
100% Year to date	100% Year to date

Notes

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

Lassa Fever

Week 2

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
117	14	2	State: 3 LGA: 8

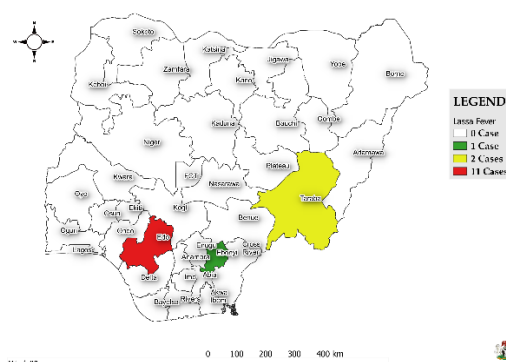
Year to date (week 1 – 52)

Suspected cases	Confirmed cases	Deaths	CFR
2020 2021	2020 2021	2020 2021	2020 2021
255 226	82 23	14 4	17.1% 17.4%

Figure 1: Number of suspected and confirmed cases of Lassa Fever, Nigeria, Weeks 1 – 52, 2021



Figure 2: Location of **confirmed** cases of Lassa Fever by State, Nigeria, week 2, 2021



Key points

- There were 117 suspected cases, 14 were laboratory confirmed and two deaths were recorded from eight LGAs in three states.

Actions

To date:

- The National multi-sectoral Lassa fever Emergency Operations Centre (EOC) was activated to coordinate response activities across states.
- Dissemination of reviewed IPC guidelines.

Planned:

- Pilot indigent patient treatment scheme through the basic healthcare provision fund.
- Finalise Lassa Fever five-year strategic plan.

Cerebrospinal Meningitis (CSM)

Week 2

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
2	0	0	State: 1 LGA: 2

Year to date (week 1 – 52)

Suspected cases	Confirmed cases	Deaths	CFR
2020 2021	2020 2021	2020 2021	2020 2021
17 2	0 0	1 0	5.9% 0%

Figure 3: Number of suspected and confirmed cases of CSM, Nigeria, weeks 1 – 52, 2021

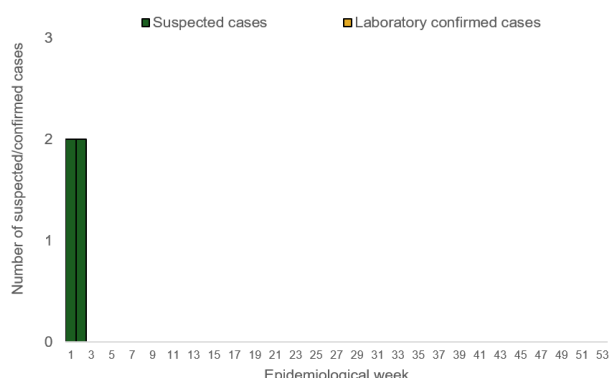
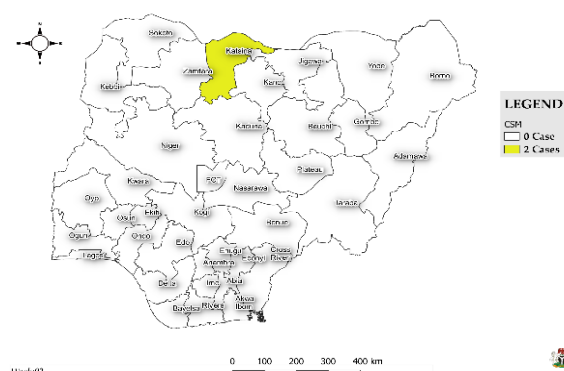


Figure 4: Location of suspected cases of CSM by State, Nigeria, week 2, 2021



Key points

- There were two suspected cases of Cerebrospinal Meningitis (CSM) reported from two LGAs in Katsina State. None were laboratory confirmed and no death was recorded.

Actions

To date:

- National CSM TWG meets weekly to review reports from states and plan appropriately.
- Enhanced surveillance in all states.

Planned:

- Continue harmonisation of the national line list and SORMAS data.
- Continue to ensure that states reporting cases send their line lists and collect CSM samples.

Yellow Fever

Week 2

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
16	0	0	State: 10 LGA: 12

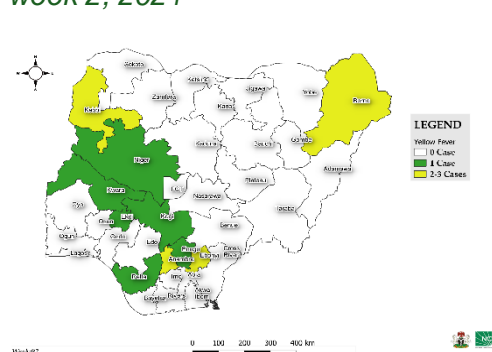
Year to date (week 1 – 52)

Suspected cases		Confirmed cases		Deaths		CFR	
2020	2021	2020	2021	2020	2021	2020	2021
63	33	0	0	0	0	0%	0%

Figure 5: Number of suspected and confirmed cases of Yellow Fever, Nigeria, weeks 1 – 52, 2021



Figure 6: Location of suspected cases of Yellow Fever by States, Nigeria, week 2, 2021



Key points

- There were 16 suspected cases of Yellow Fever (YF) reported from 12 LGAs in 10 States. None were laboratory confirmed and no death was recorded.

Actions

To date:

- National YF multi-partner Emergency Operations Centre (EOC) continues to coordinate response activities across states.
- Daily monitoring and analysis of surveillance data across the country to guide response activities.
- Concluded accelerated Preventive Mass Vaccination Campaign (PMVC) in Enugu, Delta and PMVC in Bauchi State.

Planned:

- Continue implementation of the Incident Action Plan (IAP) and mobilise required resources for the outbreak response.
- Continue to support affected states across all pillars of response.
- Continue harmonisation of surveillance and laboratory data ongoing.

Cholera

Week 2

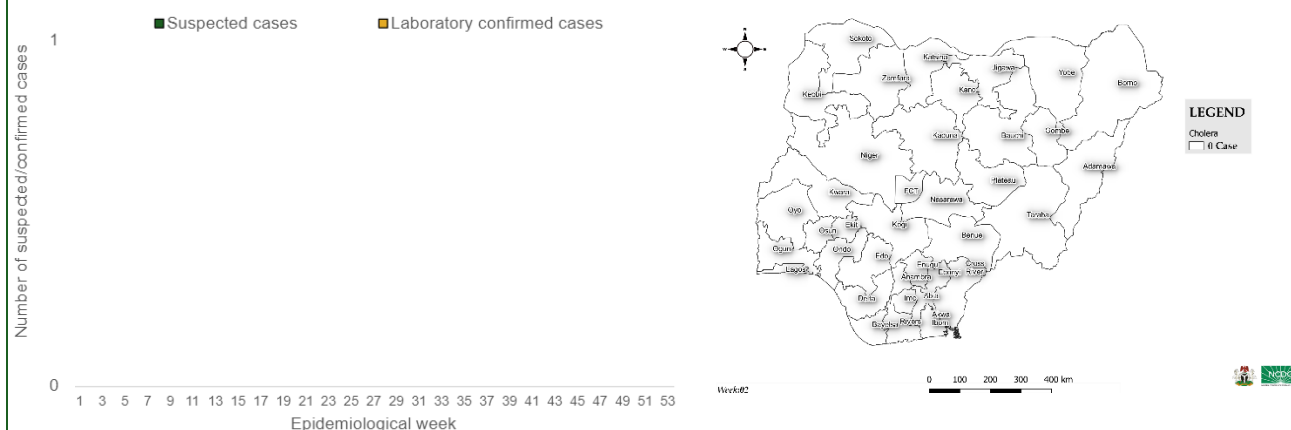
Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
0	0	0	State: 0 LGA: 0

Year to date (week 1 – 52)

Suspected cases		Confirmed cases		Deaths		CFR	
2020	2021	2020	2021	2020	2021	2020	2021
52	0	0	0	6	0	11.5%	0%

Figure 7: Number of suspected and confirmed cases of Cholera, Nigeria, weeks 1 – 52, 2021

Figure 8: Location of suspected cases of Cholera by State, Nigeria, week 2, 2021



Key points

- There were no cases of cholera reported this week.

Actions

To date

- National cholera multi-Sectoral Technical Working Group (TWG) is monitoring all states and supporting affected states.

Planned:

- Continue follow up and monitoring of non-reporting states.
- Continue harmonisation of the national line list and SORMAS data.

Measles

Week 2

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
207	3	1	State: 15 LGA: 57

Year to date (week 1 – 52)

Suspected cases	Confirmed cases	Deaths	CFR
2020 2021	2020 2021	2020 2021	2020 2021
557 338	1 3	0 1	0% 0.3%

Figure 9: Number of suspected and confirmed cases of Measles, Nigeria, weeks 1 – 52, 2021

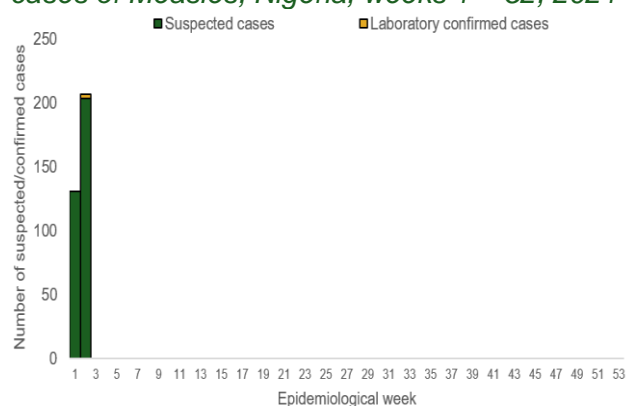
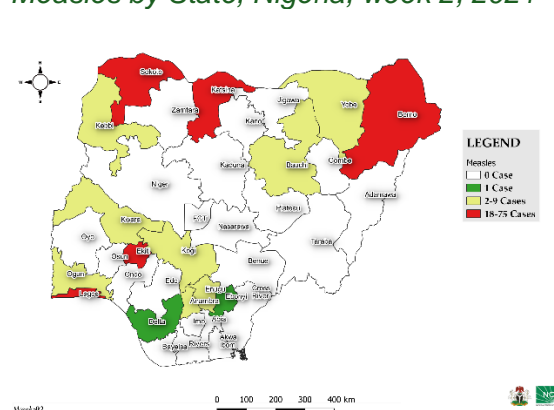


Figure 10: Location of suspected cases of Measles by State, Nigeria, week 2, 2021



Key points

- There were 207 suspected cases of Measles reported from 57 LGAs in 15 states. There were three laboratory confirmed cases and one death was recorded.

Actions

To date

- National Measles TWG is closely monitoring measles surveillance data and providing feedback to relevant agencies and development partners.
- Weekly surveillance and laboratory data harmonisation ongoing.

Planned:

- Intensify follow up with states to update and transmit line list.
- Continue monthly measles surveillance data review.

Monkeypox

Week 2

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
2	1	0	State: 1 LGA: 1

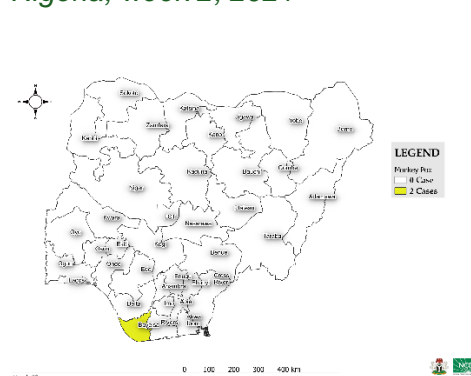
Year to date (week 1 – 52)

Suspected cases	Confirmed cases	Deaths	CFR
2020 2021	2020 2021	2020 2021	2020 2021
5 5	0 2	0 0	0% 0%

Figure 11: Number of suspected and confirmed cases of Monkeypox, Nigeria, weeks 1 – 52, 2021



Figure 12: Location of suspected cases of Monkeypox by State, Nigeria, week 2, 2021



Key points

- There were two suspected cases of monkeypox reported from Southern Ijaw LGA in Bayelsa State. One case was laboratory confirmed and no death was recorded.

Actions

To date

- National monkeypox Technical Working Group (TWG) is monitoring activities in all states.

Planned:

- Enhance surveillance for monkeypox in high burden states.
- Continue harmonisation of the national line list and SORMAS data.

Acute Flaccid Paralysis (AFP)

Week 2

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
51	0	0	State: 23 + FCT LGA: 51

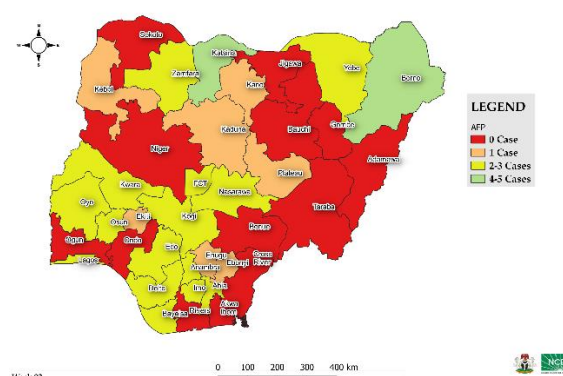
Year to date (week 1 – 52)

Suspected cases		Confirmed cases		Deaths		CFR	
2020	2021	2020	2021	2020	2021	2020	2021
103	97	0	0	0	0	0%	0%

Figure 13: Number of suspected and confirmed cases of AFP, Nigeria, weeks 1 – 52, 2021



Figure 14: Location of suspected cases of AFP by State, Nigeria, week 2, 2021



Key points

- There were 51 suspected cases of AFP reported from 51 LGAs in 23 States and FCT. None were laboratory confirmed and no death was recorded.

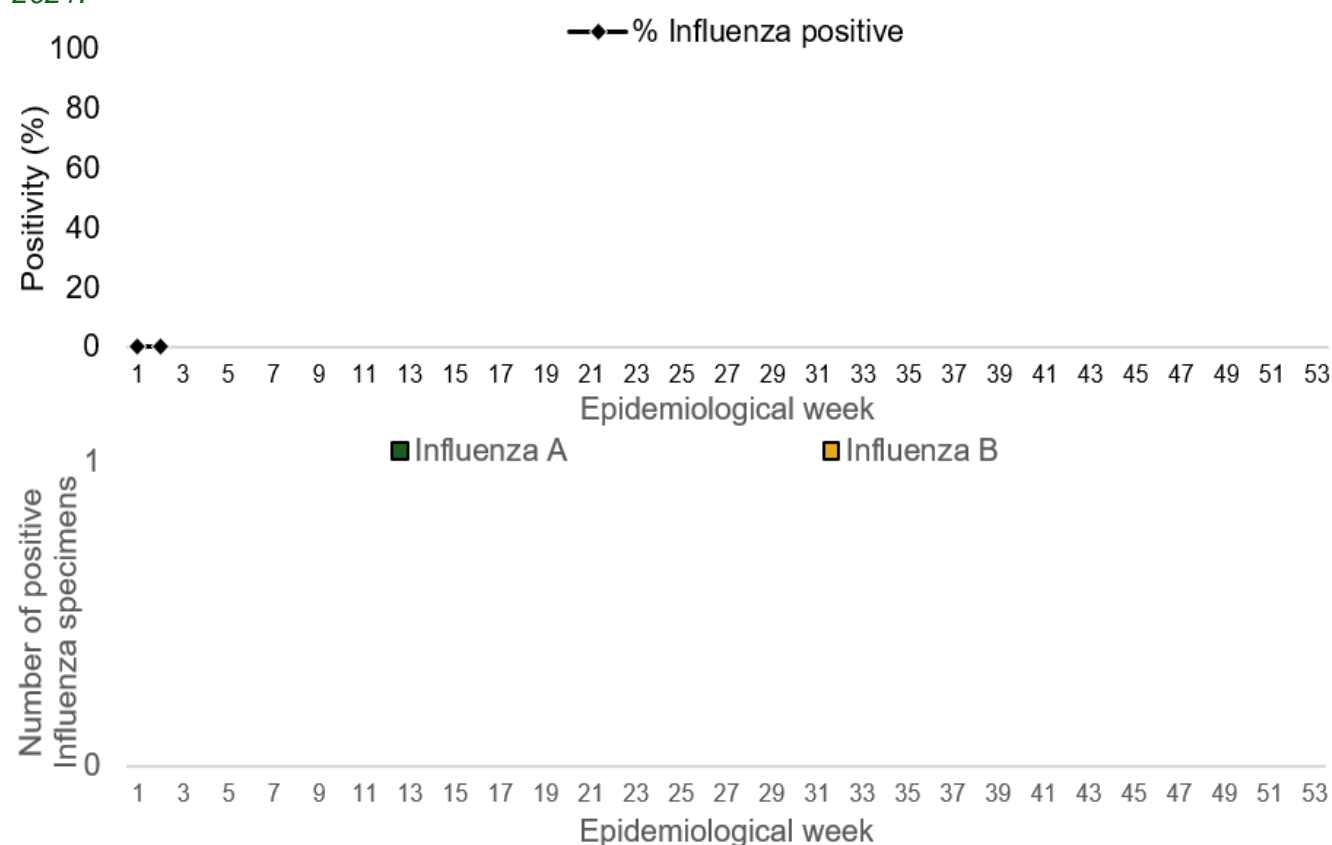
National Influenza Sentinel Surveillance

Year to date (week 1 – 52)

	Suspected cases	Suspected ILI	Suspected SARI
Number (Percentage)	15	15 (100%)	0 (0%)

	Confirmed cases		Confirmed ILI		Confirmed SARI	
	Influenza A	Influenza B	Influenza A	Influenza B	Influenza A	Influenza B
Number	0	0	0	0	0	0
Positivity (%)	0%	0%	0%	0%	0%	0%

Figure 15: Number of influenza positive specimens by type and percent positive by epidemiological week, 2021.



Coronavirus Disease (COVID-19)

As at week 4

Suspected cases	Confirmed cases	Deaths	Number of States and LGAs affected
1,355,412	131,242	1,586	State: LGA:

Figure 16: Epidemic curve of confirmed cases of COVID-19, Nigeria, week 1, 2020 – 4, 2021

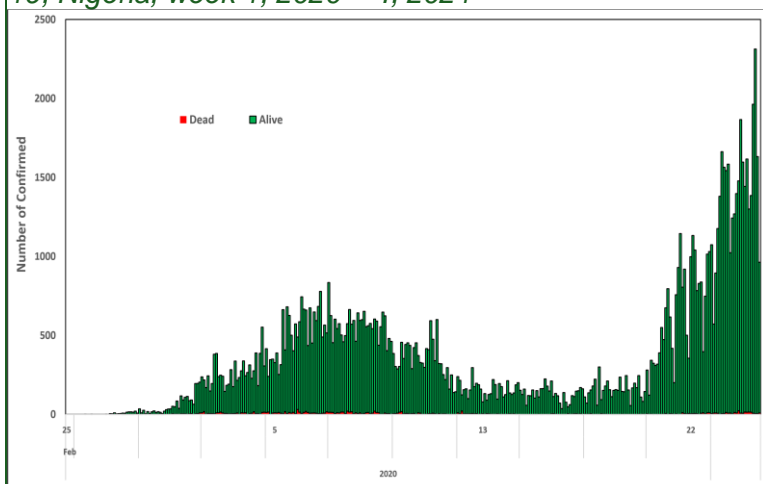
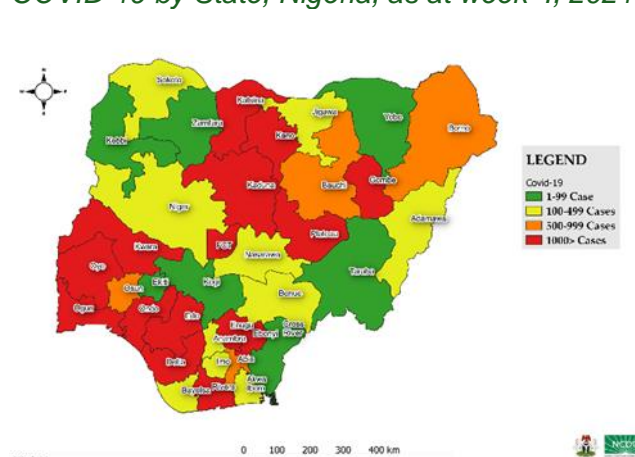


Figure 17: Location of **confirmed** cases of COVID-19 by State, Nigeria, as at week 4, 2021



Actions

To date:

- National COVID-19 multi-partner Emergency Operations Centre (EOC) continues to coordinate response activities across states.
- Published and disseminated the updated COVID-19 case definition to stakeholders.
- Intensified follow up with states to collect data on cases and contacts.
- Trained healthcare workers on IPC in Nasarawa State.
- Supported National Primary Health Care Development Agency (NPHCDA) with sensitisation of religious leaders and civil society organisations (CSOs) on planned vaccination.

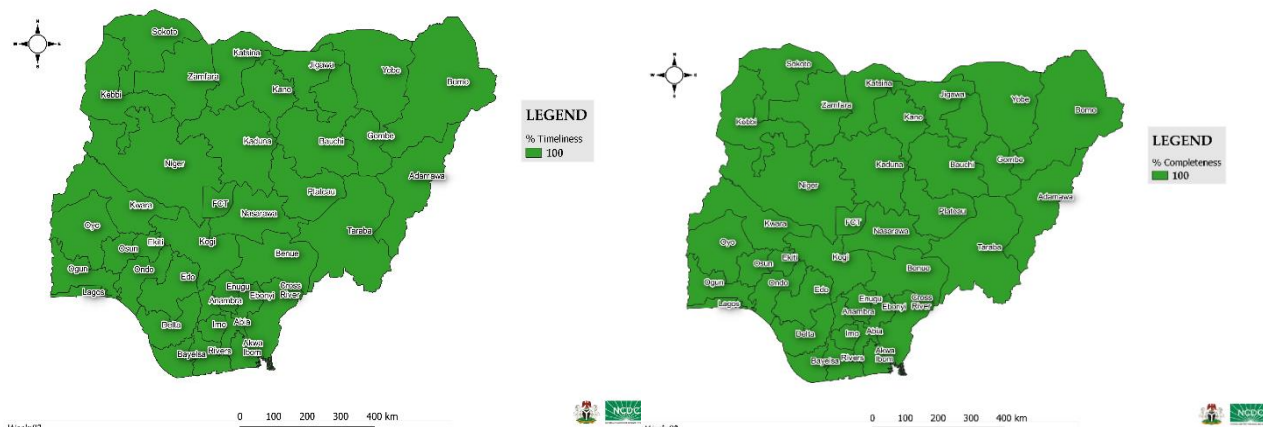
Planned:

- Deploy additional Rapid Response Teams to support states.
- Finalise Local Government Area (LGA)/State transmission categorisation.
- Support supervisory visits to private laboratories in FCT.

Timeliness and Completeness of Reports

Week 1

Figure 18: A – Timeliness by State (%); B – Completeness by State (%), week 2, 2021



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	Week 2 Week 2	Year to date Week 1 – 52
Reports sent on time	74	74
Reports sent late	0	0
Reports not received	0	0
Timeliness	100%	100%
Completeness	100%	100%

States with reports not received in 2021 (week 1 – 52)

State	Week(s) report not received
Nil	Nil

Timeliness and Completeness of Reports by State

Year to date (week 1 – 52)

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