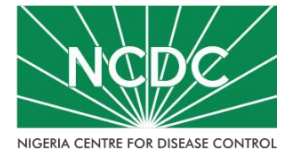


YELLOW FEVER SITUATION REPORT

Report of Yellow fever Cases in 13 States

Serial Number 008: Epi-Week 53 (as at 31st December 2020)



HIGHLIGHTS

- The Nigeria Centre for Disease Control (NCDC) is currently responding to reports of yellow fever cases in 14 states - Akwa Ibom, Bauchi, Benue, Borno, Delta, Ebonyi, Enugu, Gombe, Imo Kogi, Osun, Oyo, Plateau and Taraba States

From the 14 States

- In this reporting week
 - One new state (Imo State) reported one confirmed case
 - Thirty-two new confirmed cases were reported from Institut Pasteur (IP) Dakar across four states from 7 Local government Areas (LGAs), Delta-21 [Ika North East (20), Ika South (1)], Enugu -9 [Isi-Uzo (7), Igbo-Etiti (1), Igbo Eze North (1) Imo -1 Owerri North (1) and Oyo -1 (Ibarapa North (1)
 - No new death was recorded among confirmed cases
- Cumulatively from epi-week 24 – 53
 - A total of 138 confirmed cases have been reported from 33 LGAs across 14 States [**Delta-53** Ika North-East (40), Aniocha-South(5), Ika South (3), Oshimili South (2), Oshimili North(1), Ukwuani(1), Ndokwa West (1)], [**Enugu-45** Enugu East (3), Enugu North (1), Igbo-Etiti (6), Igbo-Eze North(11), Isi-Uzo (13), Nkanu West (2) Nsukka(6), Udenu (3)], [**Benue-14** (Ogbadibo (12), Okpokwu (1)], [**Bauchi-9** (Ganjuwa 9), Darazo (1)], [**Borno-5** Gwoza(1)], Hawul (1), Jere (2), Shani (1)], [**Ebonyi-3** Ohaukwu (3)], [**Oyo-2** Akinyele (1), Ibarapa North (1)], [**Gombe-1** Akko (1)], [**Imo 1** (Owerri North(1))] [**Kogi-1** Lokoja (1)], [**Plateau-1** Langtang (1)], [**Taraba-1** Jalingo (1)], [**Akwa Ibom-1** Uyo(1)] and [**Osun-1** Ilesha East (1)]. (*See table 1*)
 - Four states [Delta (53), Enugu (45), Benue (14) and Bauchi (9)] account for 88% of all confirmed cases
 - A total of 17 deaths were recorded among confirmed cases with a CFR of 12% from Enugu (9), Delta (6), Bauchi (1) and Ebonyi (1). (*See table 1 and figure 1*)
- The NCDC is coordinating response activities through the national YF Emergency Operations Centre (EOC), in collaboration with states and partners
- Nigeria has secured ICG approval for YF reactive mass vaccination campaign in 11 LGAs in 2 states [Enugu (9) and Ebonyi (2)]
- Preventive mass vaccination campaigns (PMVC) have been concluded in all LGAs in Benue, Oyo, Ondo and Delta States. Bauchi State to implement PMVC by January 2021

Cumulatively across Nigeria, Epi-Week 01 – 53, 2020

- A total of 3,426 suspected cases have been reported from 495 (64%) LGAs across all states and FCT
- A total of 145 confirmed cases, [Nigeria PCR (70), IP Dakar (75)] have been recorded across 40 LGAs
- Laboratory results in-country: 70 confirmed (PCR); 148 presumptive positive; 13 Inconclusive; 1,526 Negative
- Laboratory results from IP Dakar: Of the 161 (148 presumptive and 13 inconclusive) samples sent to IP Dakar, 75 (46.6%) were confirmed, 22 (13.7%) Negative and 64 (39.8%) pending
- The 145 confirmed cases were reported from 40 LGAs across 16 states from
 - Delta (53); Enugu (45); Benue (14); Bauchi (9); Borno (5), Edo (5); Ebonyi (3); Oyo (3), Ekiti (1); Gombe (1), Kogi (1); Akwa Ibom (1), Osun (1), Plateau (1), Taraba (1) and Imo (1)
- Seventeen deaths (CFR: 11.7%) were reported among confirmed cases across four states [Enugu (9), Delta (6), Bauchi (1), and Ebonyi (1)]



Table 1: Summary of cases of yellow fever in Bauchi, Benue, Delta, Ebonyi and Enugu States, epi-week 24 – 53, 2020

State	# Suspected Cases	# Cases with Blood Sample Collected (%)	Confirmed Cases		Deaths	
			Confirmed Cases (PCR NG)	Confirmed Cases (IP Dakar)	# Deaths among Confirmed Cases (CFR)	# Deaths among All Cases (CFR)
Akwa Ibom	13	13 (100%)	0	1	0	0
Essien Udim	2	2 (100%)	0	0	0	0
Ikono	1	1 (100%)	0	0	0	0
Ikot Abasi	2	2 (100%)	0	0	0	0
Ikot Ekpene	1	1 (100%)	0	0	0	0
Itu	1	1 (100%)	0	0	0	0
Mkpat Enin	1	1 (100%)	0	0	0	0
Ukanafun	1	1 (100%)	0	0	0	0
Uruan	1	1 (100%)	0	0	0	0
Uyo	3	3 (100%)	0	1	0	0
Bauchi	192	175 (91%)	8	1	1 (11%)	25 (13%)
Alkaleri	1	1 (100%)	0	0	0	0
Bauchi	2	2 (100%)	0	0	0	0
Darazo	1	1 (100%)	1	0	0	0
Ganjuwa	176	159 (90%)	7	1	1 (13%)	25 (14%)
Jama'are	6	6 (100%)	0	0	0	0
Ningi	3	3 (100%)	0	0	0	0
Tafawa-balewa	1	1 (100%)	0	0	0	0
Toro	1	1 (100%)	0	0	0	0
Warji	1	1 (100%)	0	0	0	0
Benue	159	65 (41%)	11	3	0	49 (31%)
Makurdi	2	2 (100%)	0	0	0	0
Obi	1	1 (100%)	0	0	0	0
Ogbadibo	140	46 (33%)	11	2	0	49 (35%)
Oju	1	1 (100%)	0	0	0	0
Okpokwu	14	14 (100%)	0	1	0	0
Ushongo	1	1 (100%)	0	0	0	0
Borno	71	22 (31%)	1	4	0	0
Askira/Uba	1	1 (100%)	0	0	0	0
Bama	1	1 (100%)	0	0	0	0
Bayo	4	4 (100%)	0	0	0	0
Biu	4	4 (100%)	0	0	0	0
Chibok	3	0 (0%)	0	0	0	0
Dambo	5	1 (20%)	0	0	0	0
Gubio	7	2 (29%)	0	0	0	0
Gwoza	10	2 (20%)	1	0	0	0
Hawul	2	1 (50%)	0	1	0	0
Jere	9	3 (33%)	0	2	0	0
Kala/Balge	2	1 (50%)	0	0	0	0
Konduga	6	1 (17%)	0	0	0	0
Mafa	2	2 (100%)	0	0	0	0
Magumeri	3	1(33%)	0	0	0	0
Maiduguri	1	1 (100%)	0	0	0	0
Mobbar	3	1 (33%)	0	0	0	0
Monguno	1	0 (0%)	0	0	0	0
Ngala	1	0 (0%)	0	0	0	0
Nganzai	2	1 (50%)	0	0	0	0
Shani	4	2 (50%)	0	1	0	0
Delta	258	248 (96%)	18	35	6 (11%)	59 (23%)
Aniocha North	2	2 (100%)	0	0	0	1 (50%)
Aniocha South	13	13 (100%)	5	0	0	0
Ika North East	210	200 (95%)	8	32	5 (13%)	54 (26%)
IKA SOUTH	17	17 (100%)	1	2	1 (33%)	4 (24%)
Isoko North	2	2 (100%)	0	0	0	0

Ndokwa West	3	3 (100%)	1	0	0	0
Oshimili North	2	2 (100%)	1	0	0	0
Oshimili South	4	4 (100%)	1	1	0	0
Ughelli North	2	2 (100%)	0	0	0	0
Ukwuani	2	2 (100%)	1	0	0	0
Warri North	1	1 (100%)	0	0	0	0
Ebonyi	40	4 (10%)	1	2	1 (33%)	10 (25%)
Abakaliki	1	0 (0%)	0	0	0	0
Afikpo North	4	0 (0%)	0	0	0	0
Afikpo South	1	0 (0%)	0	0	0	0
Ebonyi	3	1 (33%)	0	0	0	1 (33%)
Ezza North	1	0 (0%)	0	0	0	0
Ezza South	2	0 (0%)	0	0	0	0
Ikwo	2	0 (0%)	0	0	0	0
Ishielu	1	0 (0%)	0	0	0	0
Izzi	7	0 (0%)	0	0	0	0
Ohaukwu	17	3 (18%)	1	2	1 (33%)	9 (53%)
Onicha	1	0 (0%)	0	0	0	0
Enugu	580	301 (52%)	30	15	9 (14%)	151 (26%)
Enugu East	12	7 (58%)	1	2	1 (33%)	1 (8%)
Enugu North	2	1 (50%)	1	0	0	0
IGBO ETITI	19	16 (84%)	5	1	1 (17%)	7 (37%)
Igbo-Eze North	202	43 (21%)	9	2	4(36%)	105 (52%)
Igbo-Eze SOUTH	12	4 (33%)	0	0	0	0
Isi-Uzo	56	51 (91%)	5	8	1 (8%)	20 (36%)
Nkanu East	48	46 (96%)	0	0	0	15 (31%)
Nkanu West	5	3 (60%)	2	0	0	0
Nsukka	215	124 (58%)	4	2	1 (17%)	1 (0.5%)
ORJI RIVER	1	0 (0%)	0	0	0	0
Udenu	5	5 (100%)	3	0	1 (33%)	1 (20%)
UDI	1	0 (0%)	0	0	0	0
Uzo-Uwani	2	1 (50%)	0	0	0	1 (50%)
Gombe	7	7 (100%)	0	1	0	0 (0%)
Dukku	1	1 (100%)	0	1	0	0
Gombe	4	4 (100%)	0	0	0	0
Yamaltu/Deba	2	2 (100%)	0	0	0	0
Imo	7	7	0	1	0	0
Owerri North	7	7(100%)	0	1	0	0
Kogi	8	3 (38%)	1	0	0	0
Lokoja	1	1 (100%)	1	0	0	0
Olamaboro	7	2 (29%)	0	0	0	0
Osun	46	2 (4%)	0	1	0	0
Aiyedade	1	1 (100%)	0	0	0	0
Aiyedire	4	0 (0%)	0	0	0	0
Atakunmosa East	2	0 (0%)	0	0	0	0
Boluwaduro	4	0 (0%)	0	0	0	0
Ede North	1	0 (0%)	0	0	0	0
Ede South	2	0 (0%)	0	0	0	0
Egbedore	3	0 (0%)	0	0	0	0
Ejigbo	3	0 (0%)	0	0	0	0
Ife Central	1	0 (0%)	0	0	0	0
Ife East	1	0 (0%)	0	0	0	0
Ife South	2	0 (0%)	0	0	0	0
Ilesha East	5	1 (100%)	0	1	0	0
Ilesha West	1	0 (0%)	0	0	0	0
Irewole	4	0 (0%)	0	0	0	0
Olorunda	2	0 (0%)	0	0	0	0
Oriade	3	0 (0%)	0	0	0	0
Orolu	4	0 (0%)	0	0	0	0
Osogbo	3	0 (0%)	0	0	0	0

Oyo	53	53 (100%)	0	2	0	2 (4%)
Akinyele	1	1 (100%)	0	1	0	0
Atiba	4	4 (100%)	0	0	0	0
Egbeda	2	2 (100%)	0	0	0	0
Ibadan North	1	1 (100%)	0	0	0	0
Ibadan North East	4	4 (100%)	0	0	0	0
Ibadan North West	2	2 (100%)	0	0	0	0
Ibarapa East	2	2 (100%)	0	0	0	0
Ibarapa North	8	8 (100%)	0	1	0	0
Ido	2	2 (100%)	0	0	0	0
Iseyin	1	1 (100%)	0	0	0	0
Itesiwaju	5	5 (100%)	0	0	0	0
Iwajowa	1	1 (100%)	0	0	0	0
Lagelu	1	1 (100%)	0	0	0	0
Ogbomosho North	2	2 (100%)	0	0	0	2 (100%)
Ogbomosho South	2	2 (100%)	0	0	0	0
Ogo Oluwa	1	1 (100%)	0	0	0	0
Olorunsogo	2	2 (100%)	0	0	0	0
Oluyole	1	1 (100%)	0	0	0	0
Ona Ara	2	2 (100%)	0	0	0	0
Orelope	2	2 (100%)	0	0	0	0
Oyo West	1	1 (100%)	0	0	0	0
Saki East	1	1 (100%)	0	0	0	0
Surulere	5	5 (100%)	0	0	0	0
Plateau	16	16 (100%)	0	1	0	0
Bokkos	2	2 (100%)	0	0	0	0
Jos East	2	2 (100%)	0	0	0	0
Jos North	2	2 (100%)	0	0	0	0
Kanke	2	2 (100%)	0	0	0	0
Langtang North	2	2 (100%)	0	1	0	0
Langtang South	1	1 (100%)	0	0	0	0
Mikang	1	1 (100%)	0	0	0	0
Riyom	2	2 (100%)	0	0	0	0
Wase	2	2 (100%)	0	0	0	0
Taraba	15	15 (100%)	0	1	0	0
Ardo-Kola	4	4 (100%)	0	0	0	0
Donga	2	2 (100%)	0	0	0	0
Gashaka	1	1 (100%)	0	0	0	0
Gassol	1	1 (100%)	0	0	0	0
Jalingo	2	2 (100%)	0	1	0	0
Karim-Lamido	2	2 (100%)	0	0	0	0
Sardauna	1	1 (100%)	0	0	0	0
Takum	2	2 (100%)	0	0	0	0
TOTAL	1465	931 (62%)	70	68	17 (12%)	296 (220)

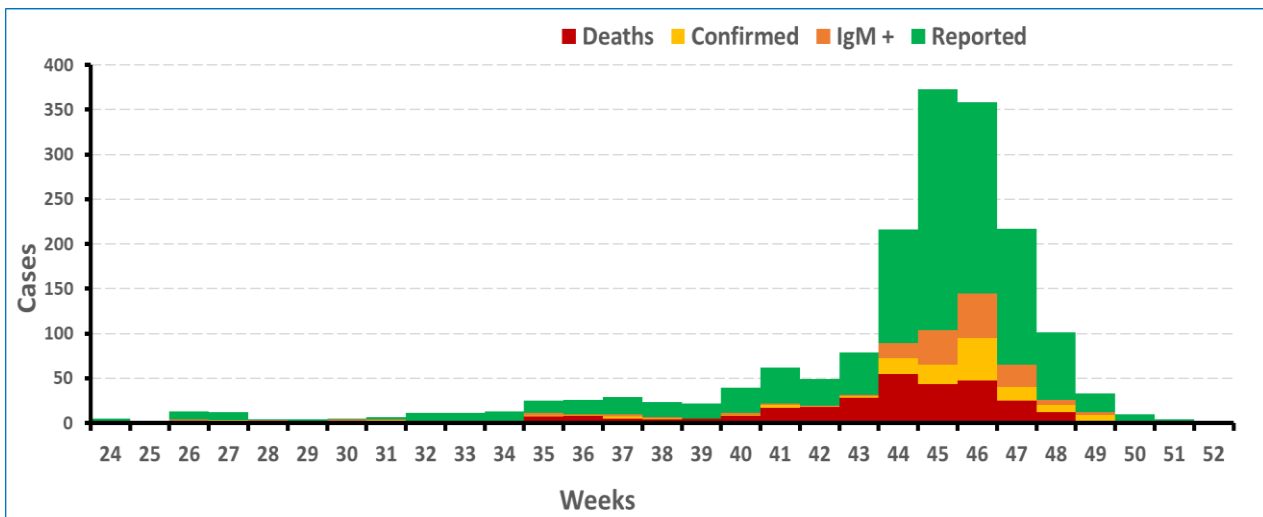


Figure 1: Epicurve of YF cases in Akwa Ibom, Bauchi, Benue, Borno, Delta, Ebonyi, Enugu, Imo, Kogi, Osun, Oyo, Plateau and Taraba States, epi-week 24 – 53, 2020

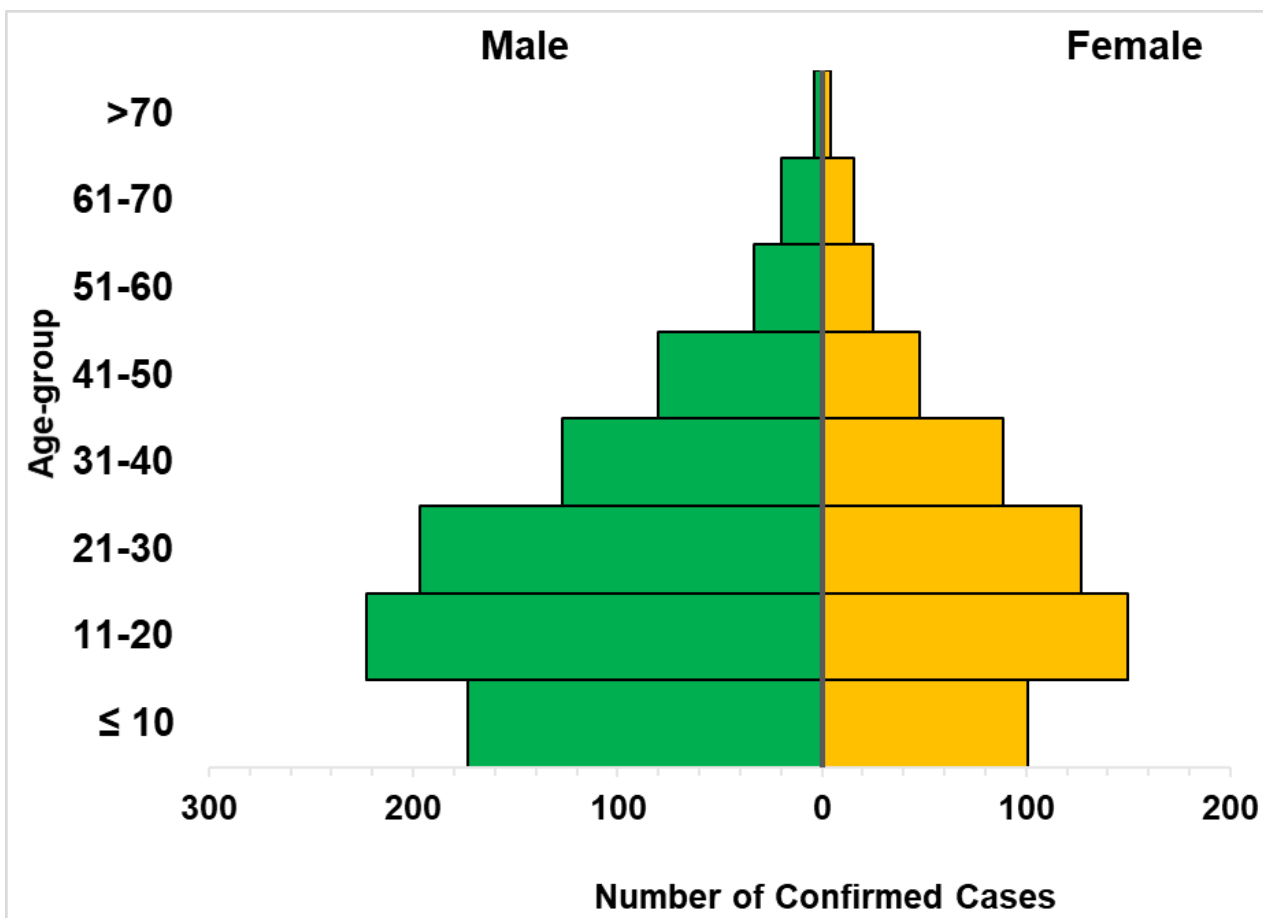


Figure 3: Age and sex distribution of yellow fever cases in Akwa Ibom, Bauchi, Benue, Borno, Delta, Ebonyi, Enugu, Gombe, Imo, Kogi, Osun, Oyo, Plateau and Taraba States, epi-week 24 – 53, 2020

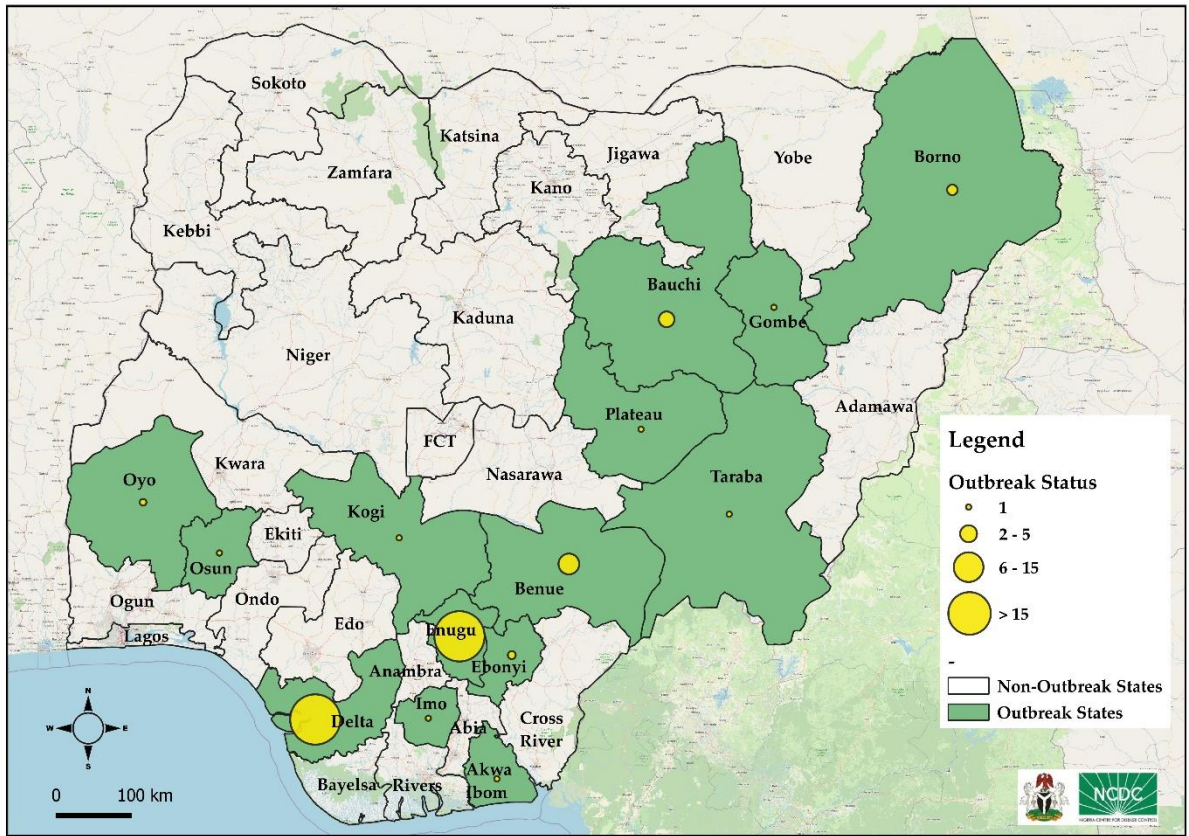


Figure 2: Map of Nigeria showing states and LGAs with yellow fever outbreak, epi-week 24 – 53, 2020

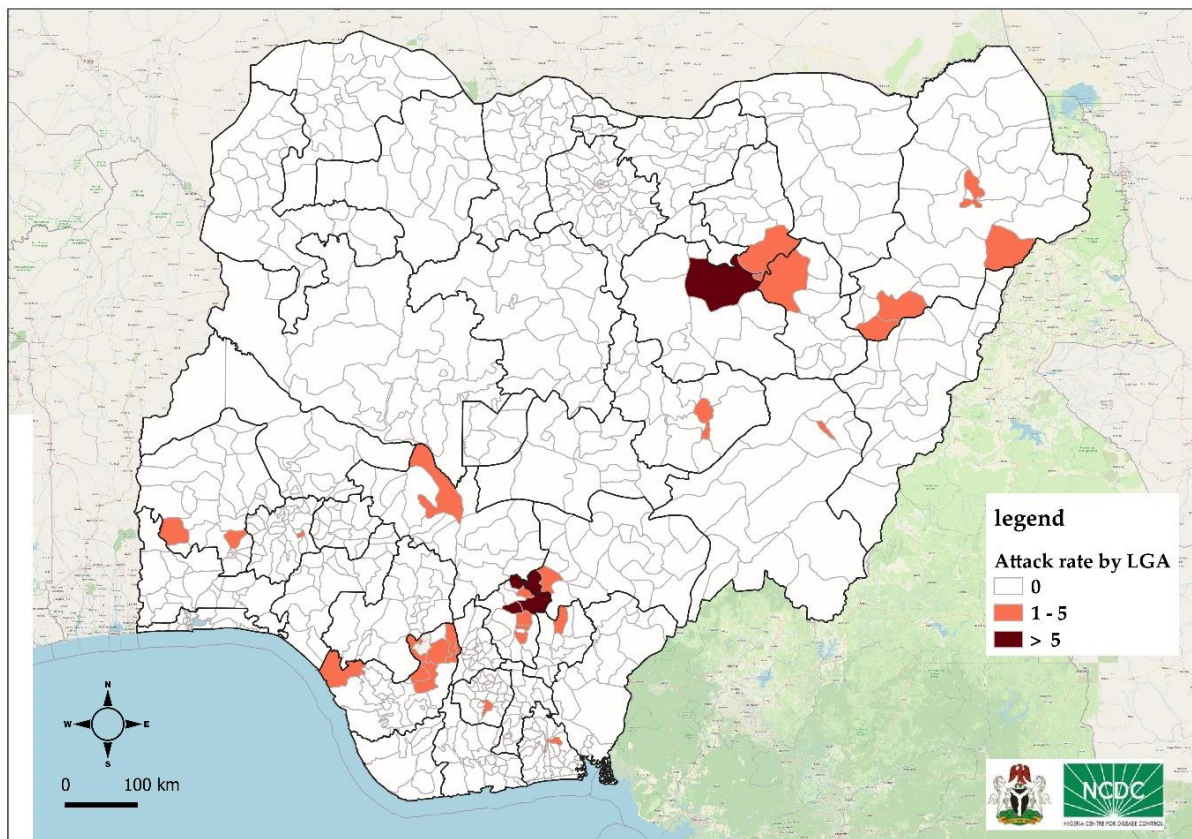


Figure 4: Map of Nigeria showing yellow fever outbreak attack rates in affected LGAs, epi-week 24 – 53, 2020



Figure 5: Epicurve of YF cases in Bauchi, Benue, Delta, Enugu, Ebonyi, Borno, and Oyo, States, epi-week 24 – 53, 2020

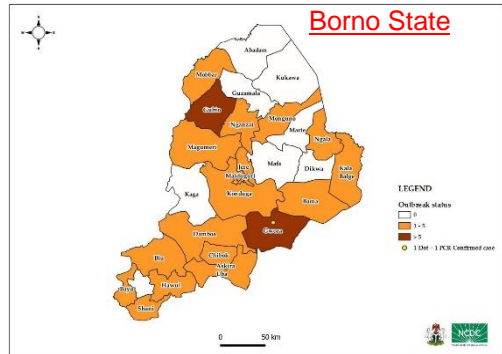
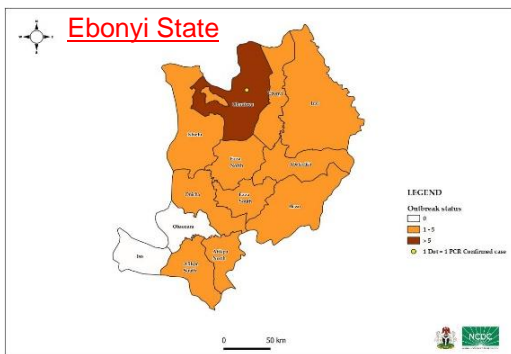
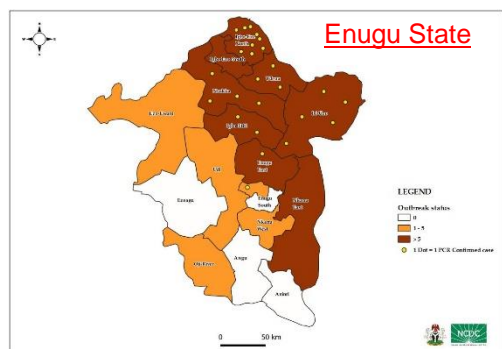
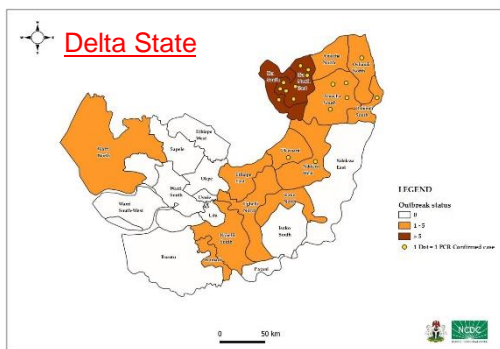
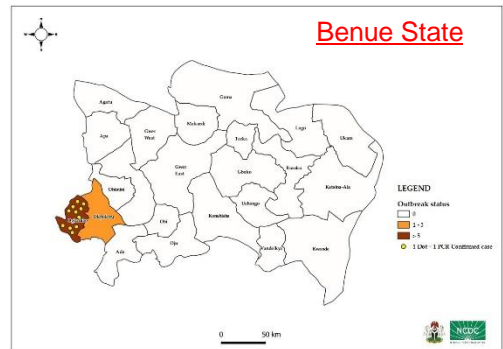
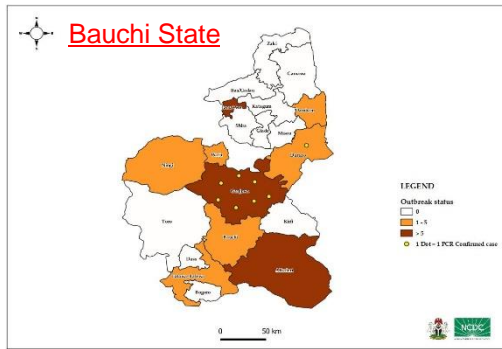
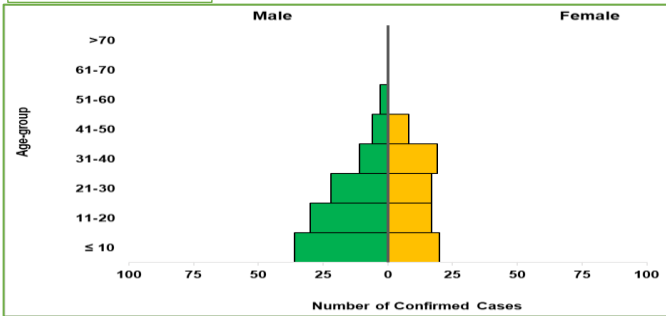
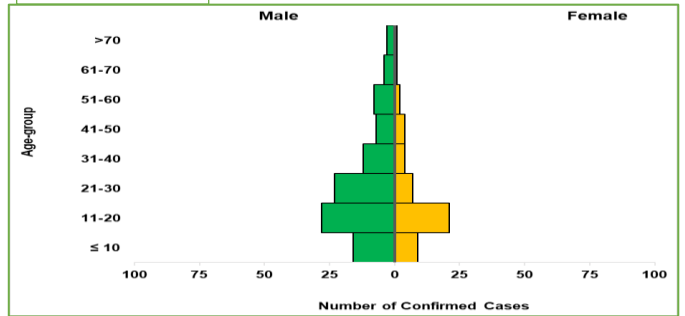


Figure 6: Map of the most affected states showing yellow fever cases, epi-week 24 – 53, 2020

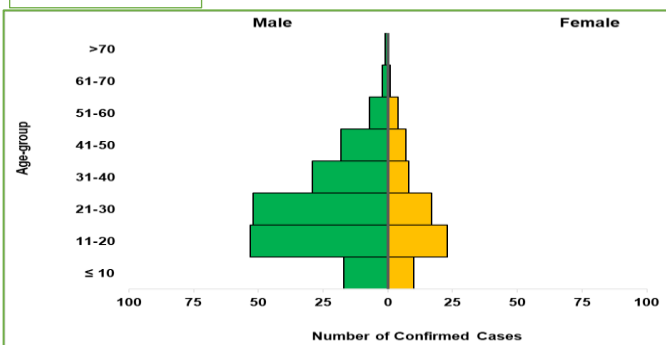
BAUCHI STATE



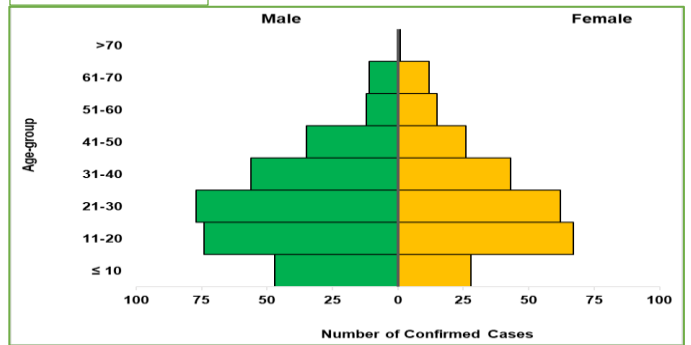
BENUE STATE



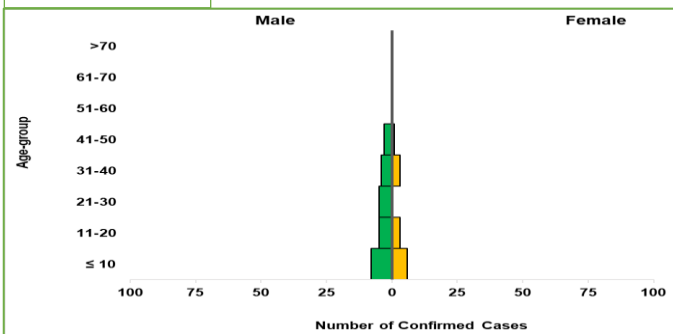
DELTA STATE



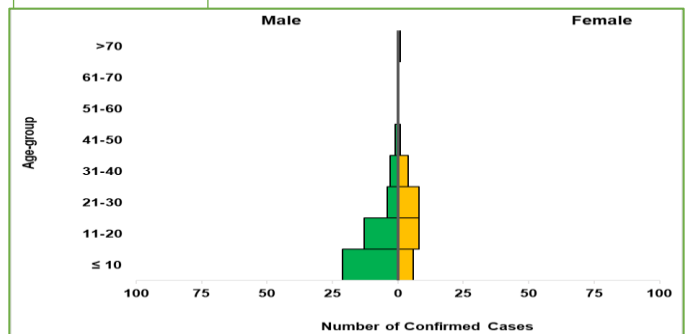
ENUGU STATE



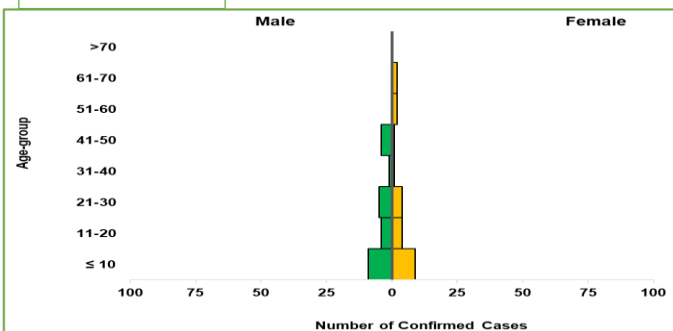
EBONYI STATE



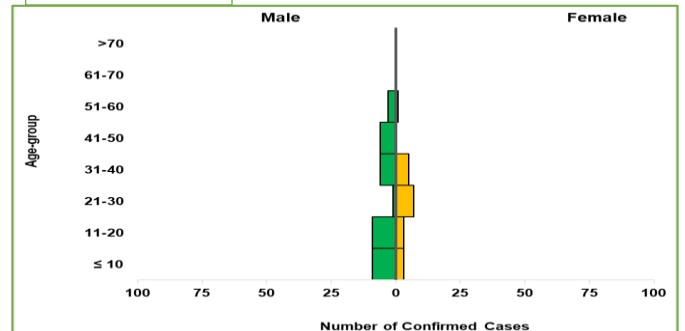
BORNO STATE



OSUN STATE



OYO STATE



7: Age and sex distribution of suspected YF cases in Bauchi, Benue, Delta, Enugu, Ebonyi, Borno, Oyo, Plateau and Taraba States, epi-week 24 – 53, 2020

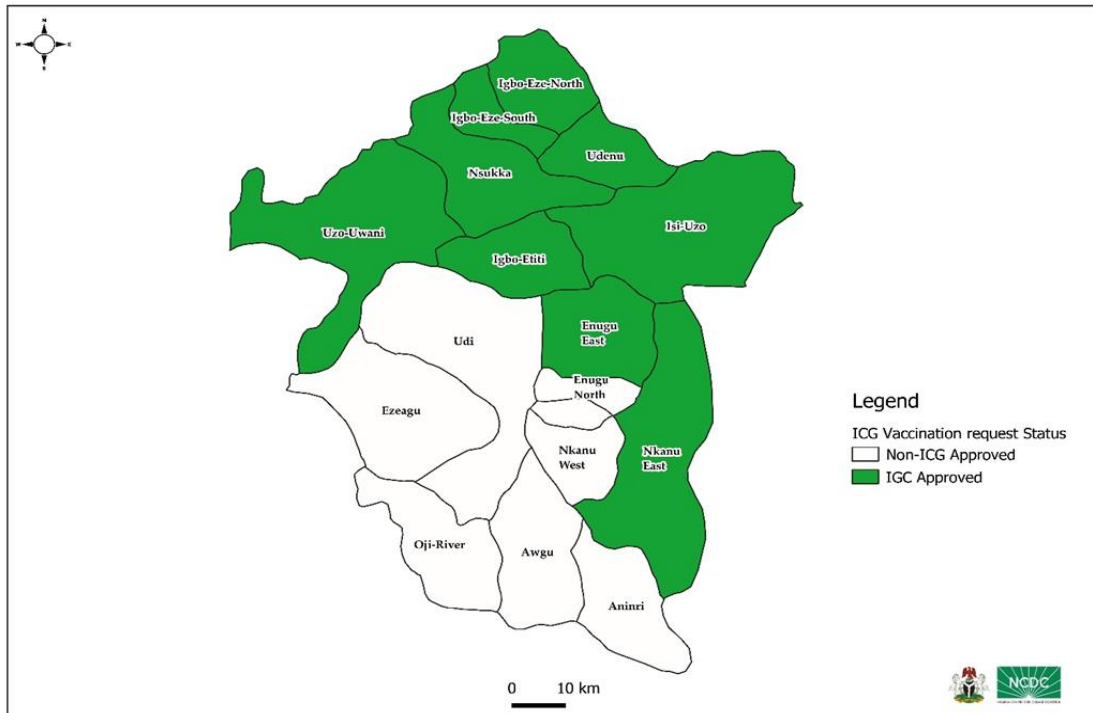


Figure 8a: The ICG-Approved LGAs in Enugu State, epi-week 24 – 53, 2020

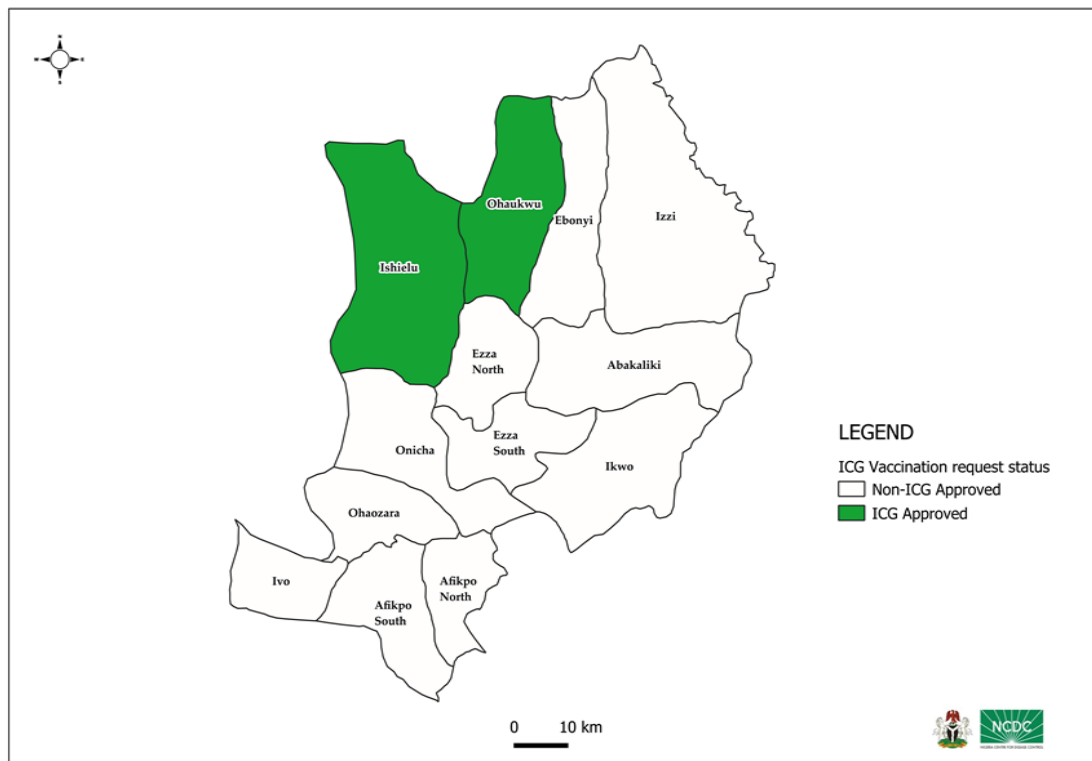


Figure 8b: The ICG-Approved LGAs in Ebonyi State, epi-week 24 – 53, 2020

RESPONSE ACTIVITIES

Coordination

- Yellow fever response activities are coordinated by NCDC through a multi-agency Yellow Fever Incident Management Structure (YF IMS)
- On-site support provided by NCDC Rapid Response Teams (RRTs) deployed to Enugu and Delta States while providing off-site support for other states
- Distribution of yellow fever preparedness and response guidelines to affected states
- Supporting Benue – Enugu - Kogi Yellow fever Regional Coordination Meeting to improve YF response coordination across the three border states organised by the State Epidemiologists of the three states
- National Arbovirus and Vector Research Centre supporting vector control in affected communities in Enugu

Epidemiology/Surveillance

- Daily monitoring and analysis of surveillance data across the country to guide response activities
- Engaging with RRTs and State Epidemiologists for daily updates
- Ongoing plans to strengthen the orientation of at-risk states on YF surveillance
- Monitoring the effective use of the SORMAS in all affected states to improve real-time reporting

Laboratory

- Coordination of sample collection and transportation from affected states to the national testing laboratories
- Laboratory confirmation in-country & Dakar as required by WHO for vaccine access
- Regular testing of yellow fever samples in all the testing laboratories
- Ensured reagents and consumables are available in all testing laboratories

Case Management

- MSF supporting case management in Enugu and Benue States
- NCDC providing offsite support to treatment sites on management of cases in the affected states
- Sensitised health care workers on yellow fever case definition & management in affected states

Vaccination - Led by NPHCDA

- Concluded Accelerated Preventive Mass Vaccination Campaign in Enugu, Delta State & PMVC in Bauchi
- On-going pre-implementation plan for YF reactive mass vaccination campaigns in Enugu and Ebonyi states

Risk Communication

- Finalised plans for the printing and distribution of more IEC materials
- Ongoing daily media monitoring across social and traditional media platforms
- Advocacy, sensitisation and community engagement still ongoing in affected states

NEXT STEPS

- Coordinate response activities across all affected states
- Continue implementation of the Incident Action Plan (IAP) and continue to mobilize required resources for the outbreak response
- Conduct sensitisation workshop on YF active case search for health care workers and surveillance officers in affected states
- Continue monitoring and analysis of YF surveillance data across all states and FCT to guide response
- Continue provision of offsite support to the affected states on case management
- Strengthen the capacity at treatment centres to support response in affected states

- Continue to coordinate prompt transportation of collected samples to the lab
- NPHCDA to follow up with states to conduct post-vaccination campaign coverage survey
- Continue support to NPHCDA in the implementation of YF reactive mass vaccination campaign in Enugu and Ebonyi States
- Support NPHCDA to develop ICG request for Enugu North, Enugu South and Udi LGAs
- Distribute IEC materials to the affected states
- Follow-up with states (Benue, Enugu, and Kogi) to create awareness among the ethnic minorities in the states
- Developing distribution plan to disseminate the Yellow fever preparedness and response guidelines to all states