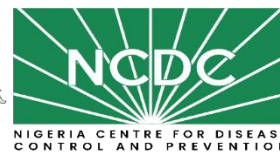


DIPHTHERIA SITUATION REPORT

Serial Number 02

Data as of Epi-week 05 2023



HIGHLIGHTS

■ As of epi-week 04 – 05, 2023

- A total of 189 suspected cases were reported from 3 states across the country – Kano: 172 (91.0%), Katsina: 9 (4.8%), Lagos: 8 (4.2%)
- Of the 189 suspected cases reported, 56 (29.6%) were confirmed (clinically compatible), 51 (27.0%) were discarded, 72 (38.1%) are pending classification & 10 (5.3%) are unknown
- Confirmed cases were all from 9 LGAs in Kano State
- Four (4) deaths were recorded from confirmed cases (CFR: 7.4%)

■ Cumulatively: Epi-week 19 2022 – Epi-week 05 2023

- A total of 523 suspected cases were reported – Kano: 396 (75.5%), Yobe: 78 (14.9%), Katsina: 34 (6.5%), Lagos: 14 (2.7%) and Osun: 1 (0.2%) States
- Of the 523 suspected cases reported, 216 (41.3%) were confirmed (14 lab confirmed & 202 clinically compatible), 80 (15.3%) were discarded, 106 (20.3%) are pending classification while 121 (23.2%) were unknown
- Majority (184 [85.2%]) of the confirmed cases occurred among cases aged 2 – 14 years.
- A total of 40 deaths were recorded among all confirmed cases (CFR: 18.5%)
- Only 27 (12.5%) out of 216 confirmed cases were fully vaccinated with a diphtheria toxin-containing vaccine

SITUATION UPDATES

Wk 19 2022 – Wk 05 2023

TOTAL SUSPECTED CASES

523

Suspected Cases [wk 4-5 2023]

189

STATE WITH SUSPECTED CASES

5

New State with Suspected Cases [wk 4-5 2023]

1

TOTAL CONFIRMED CASES

216

Confirmed Cases [wk 4-5 2023]

56

STATE WITH CONFIRMED CASES

4

New State with Confirmed Cases [wk 4-5 2023]

0

TOTAL DEATHS AMONG CONFIRMED CASES (CFR)

40 (18.5%)

Deaths among Confirmed Cases [wk 4-5 2023] (CFR)

4 (7.1%)

Description of diphtheria cases by states in Nigeria, epi-week 19 2022 – epi-week 05 2023

Description of Cases	State					National
	Kano	Yobe	Katsina	Lagos	Osun	
# Suspected cases	396	78	34	14	1	523
▪ LGAs with suspected case(s)	17	2	12	5	1	37
▪ # Sample collected (SCR)*	173 (43.7%)	9 (11.5%)	13 (38.2%)	14 (100.0%)	1 (100.0%)	210 (40.2%)
# Cases with sample collected	173	9	13	14	1	210
▪ Culture positive samples	37 (21.4%)	3 (33.3%)	0	2 (14.3%)	1 (100.0%)	43 (20.5%)
▪ Culture negative samples	64 (37.0%)	6 (66.7%)	5 (38.5%)	5 (35.7%)	0	80 (38.1%)
▪ Pending samples	72 (41.6%)	0	8 (61.5%)	7 (50.0%)	0	87 (41.4%)
▪ Samples not tested	0	0	0	0	0	0
# Isolates from positive culture	37	3	0	2	1	43
▪ Toxin production positive	11 (29.7%)	0	0	2 (100.0%)	1 (100.0%)	14 (32.5%)
▪ Toxin production negative	0	0	0	0	0	0
▪ Pending toxin test	26 (70.3%)	1 (33.3%)	0	0	0	27 (62.8%)
▪ Toxin test not done	0	2 (66.7%)	0	0	0	2 (4.7%)
# Suspected cases	396	78	34	14	1	523
# Confirmed cases (LC+EL+CC)	211 (53.3%)	2 (2.6%)	0	2 (14.3%)	1 (100.0%)	216 (42.1%)
▪ <i>Lab confirmed (LC)</i>	11	0	0	2	1	14
▪ <i>Epidemiologically linked (EL)</i>	0	0	0	0	0	0
▪ <i>Clinically compatible (CC)</i>	200	2	0	0	0	202
# Discarded	64 (16.2%)	6 (7.7%)	5 (14.7%)	5 (35.7%)	0	80 (15.3%)
# Pending	98 (24.7%)	1 (1.3%)	0	7 (50.0%)	0	106 (20.3%)
# Unknown	23 (5.8%)	69 (88.5%)	29 (85.3%)	0	0	121 (23.3%)
# Confirmed cases	211	2	0	2	1	111
▪ LGAs with confirmed case(s)	15	1	0	2	1	19
▪ Death among confirmed case (CFR)	38 (18.0%)	0	0	2 (100.0%)	0	40 (18.5%)

*SCR: Sample Collection Rate

- **Lab confirmed (LC):** a person with *Corynebacterium* spp. isolated by culture and positive for toxin production, regardless of symptoms
- **Epidemiologically linked (EL):** a person that meets the definition of a suspected case and is linked epidemiologically to a laboratory-confirmed case
- **Clin compatible (CC):** a person that meets the definition of a suspected case and lacks both a confirmatory laboratory test result and epidemiologic linkage to a laboratory confirmed case
- **Confirmed case = LC + EL + CC**

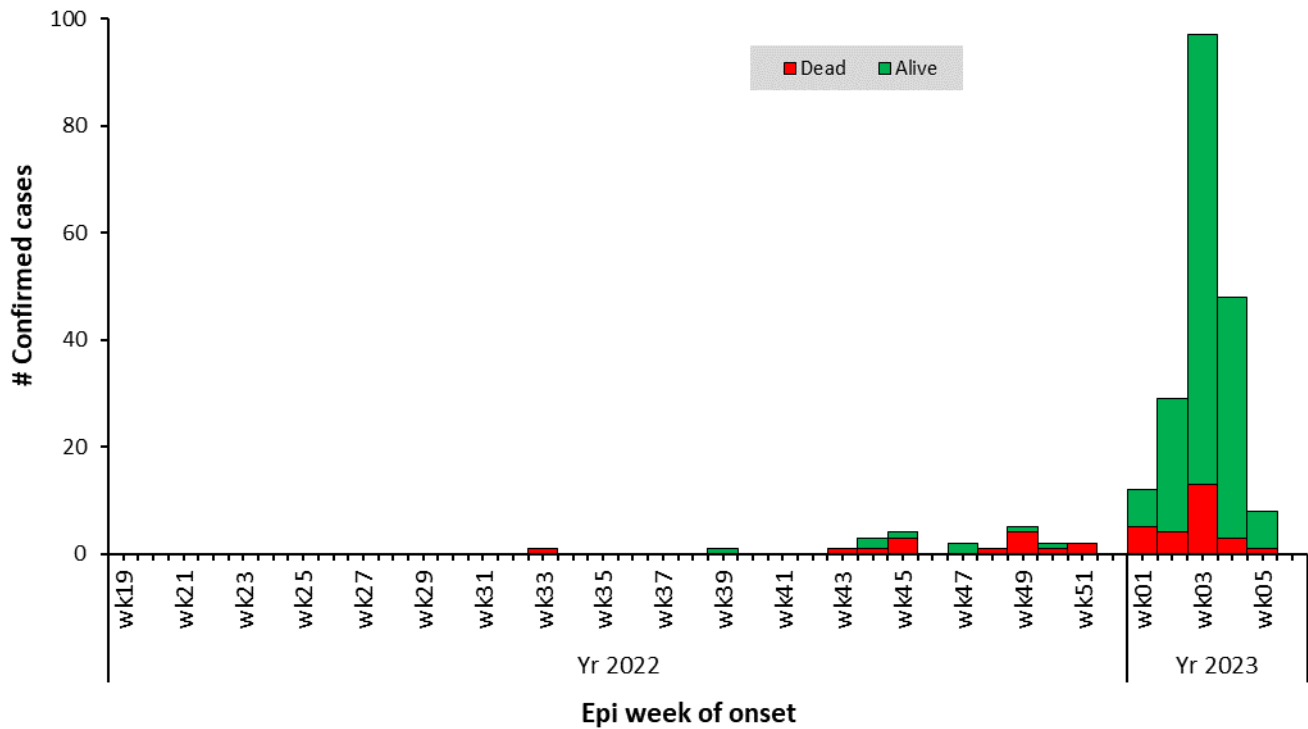


Figure 1: Epi-curve of confirmed diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 05 2023

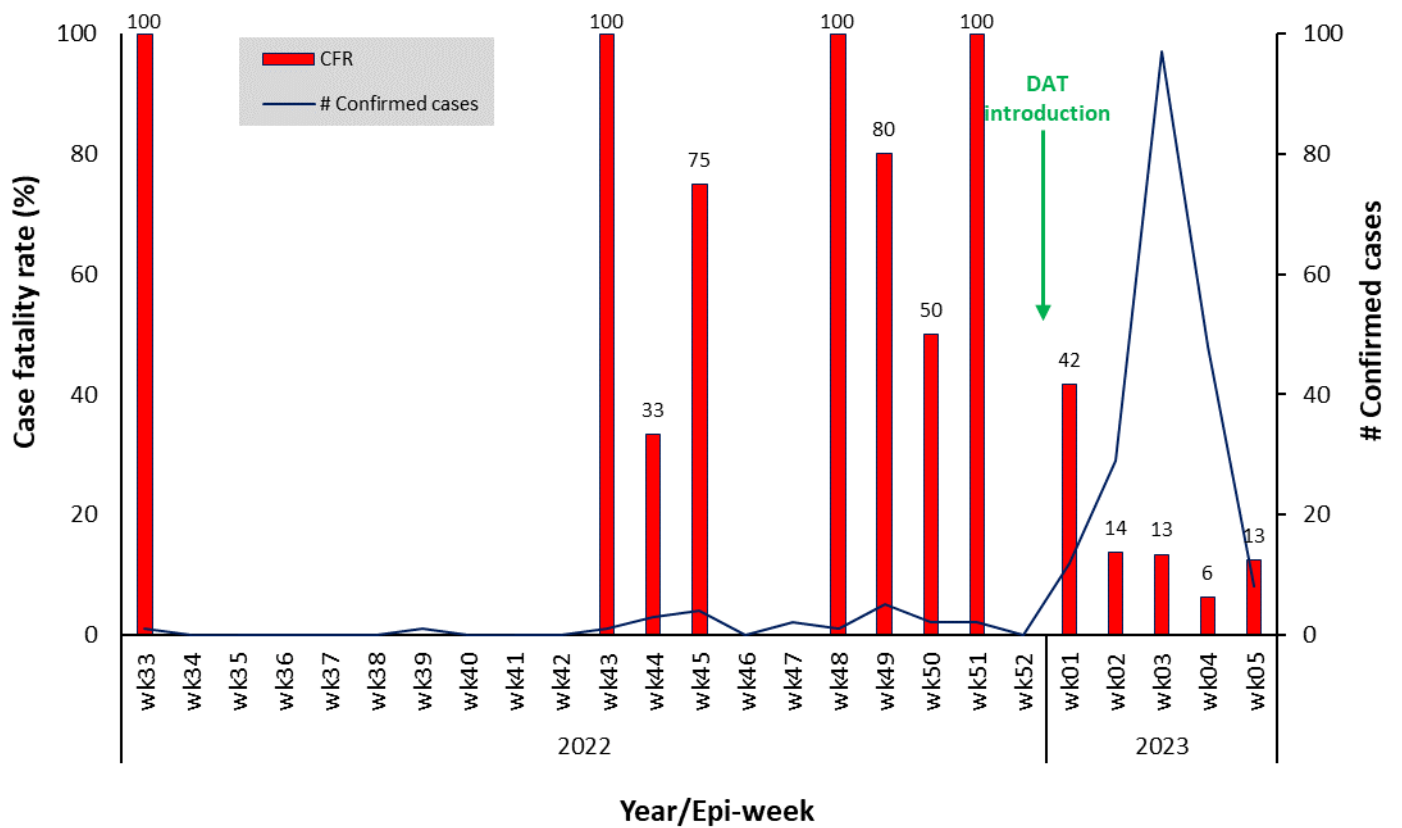


Figure 2: Weekly case fatality rate among confirmed diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 05 2023

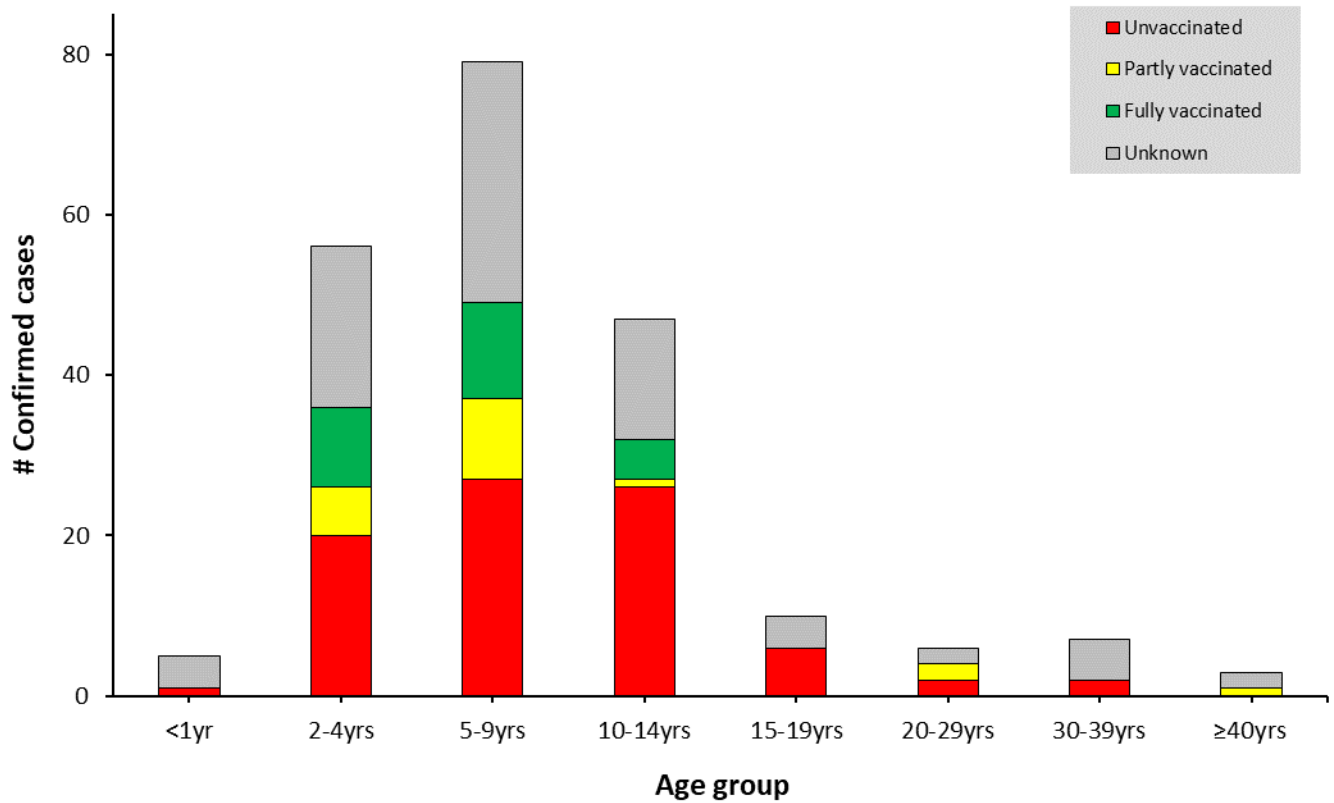


Figure 3: Age distribution and vaccination status of confirmed diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 05 2023

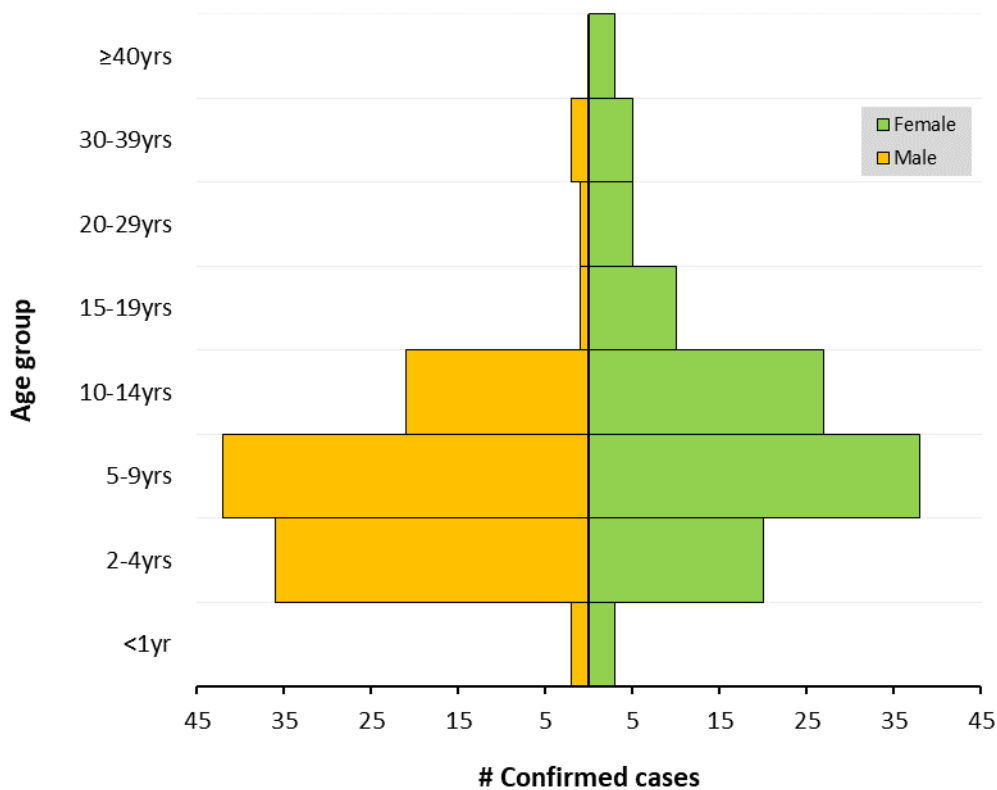


Figure 4: Age-sex distribution of confirmed diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 05 2023

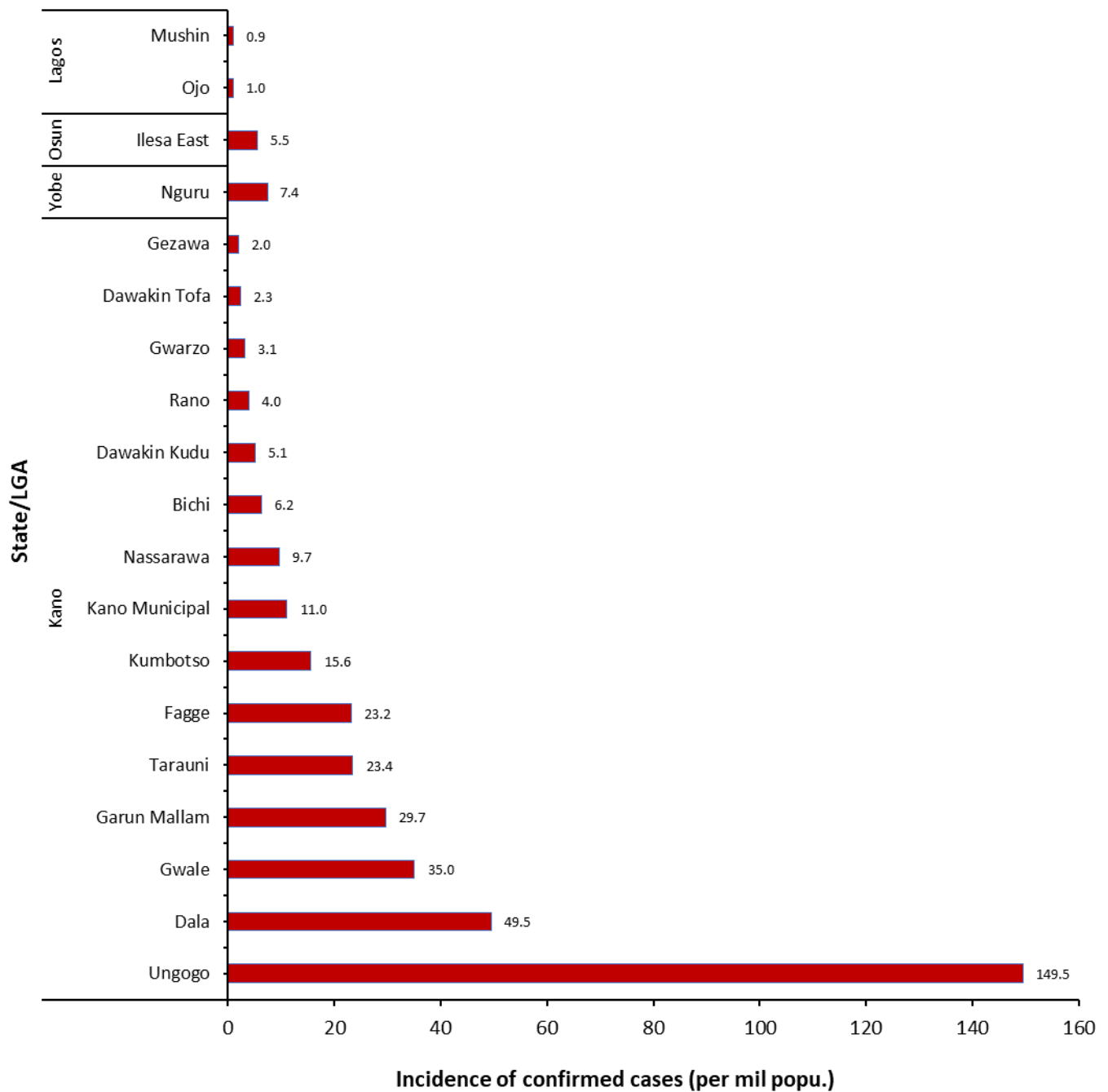


Figure 5: Incidence of confirmed diphtheria cases (LC+EL+CC) by States/LGA in Nigeria, epi-week 19 2022 – epi-week 05 2023

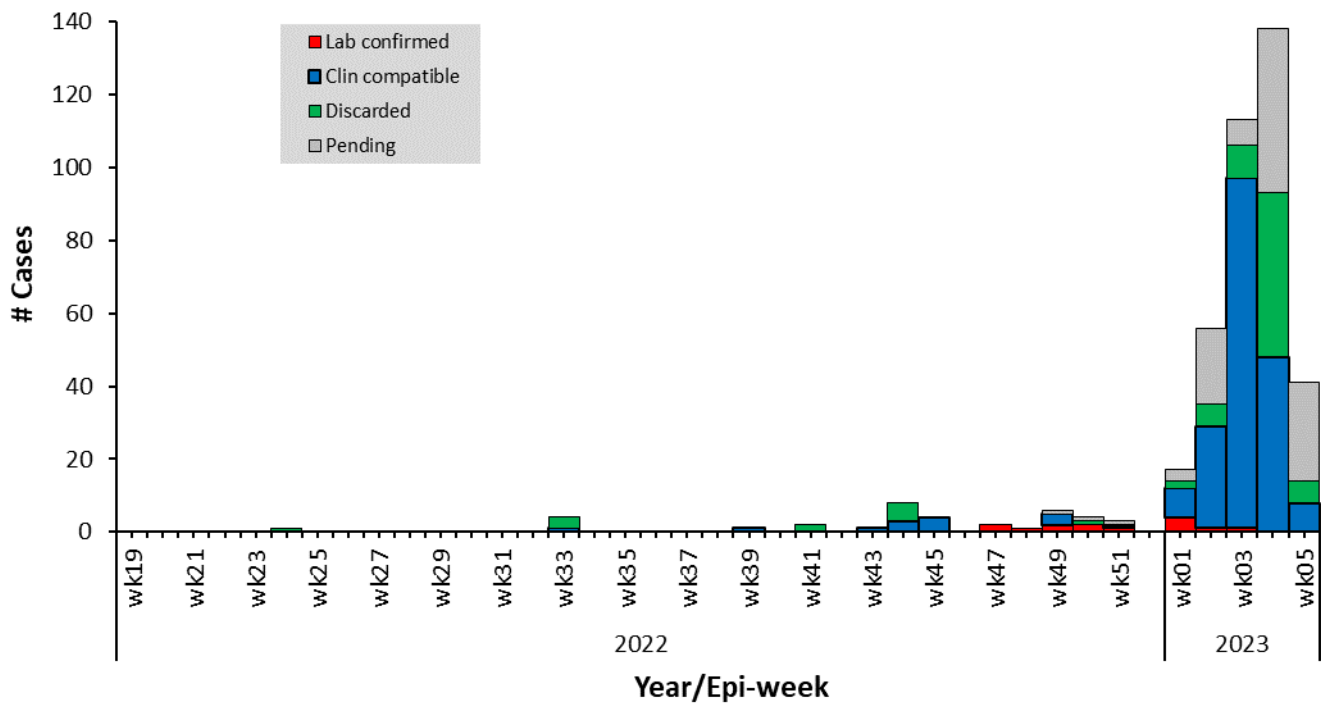


Figure 6: Distribution of diphtheria cases by year/epi-week in Nigeria, epi-week 19 2022 – epi-week 05 2023

Response Activities Update

▪ **Coordination**

- Coordinating and monitoring diphtheria surveillance and response activities in the country through the weekly diphtheria Technical Working Group (TWG) meetings
- Deployment of RRTs to Katsina, Osun and Yobe State and re-deployment of RRTs to Kano and Lagos States to support response activities

▪ **Surveillance**

- Harmonisation of surveillance and laboratory data from across states and labs
- Sensitization/training of clinical and surveillance officers on the presentation, prevention, and surveillance for diphtheria in States where RRTs were deployed to

▪ **Laboratory**

- Conducted step down training by some of the laboratory scientists/physician trained at National Reference Laboratory (NRL), Abuja in their respective States
- Order for procurement for reagents and sample collection and transportation materials/media placed
- Supporting States in confirming cultures and toxin production testing at the NRL
- Released results of the 1st batch of drug sensitivity test (DST) conducted at NRL on isolates sent in from States

▪ **Case Management**

- Distribution of 100 vials of diphtheria antitoxin (DAT) to Kano State
- Development of protocol for prioritization of diphtheria cases for DAT use in situations where there is inadequate DAT compared to number of cases in need of DAT

▪ **Risk Communication**

- Media appearances/engagement on diphtheria with media stakeholders
- Published the diphtheria FAQs on NCDC website
- Pre-testing and finalization of diphtheria IEC materials

▪ **Immunization**

- Conduct of routine immunization (RI) intensification among children < 2 years in Kano State

▪ **Research**

- Ongoing development of the zero draft of a manuscript on *“Confirmation of Diphtheria Outbreak in Nigeria”*