

DIPHTHERIA SITUATION REPORT

Serial Number 03

Data as of Epi-week 09 2023



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HIGHLIGHTS

As of epi-week 06 – 09, 2023

- A total of 377 suspected cases were reported from seven (7) states across the country. Majority 355 (96.8%) were from Kano.
- Of the 377 suspected cases reported, 102 (27.1%) were confirmed (9 lab confirmed, 93 clinically compatible), 113 (30.0%) were discarded, 148 (39.3%) are pending classification & 14 (3.7%) were unknown.
- Six (6) deaths were recorded from confirmed cases (CFR: 5.8%)

Cumulatively: Epi-week 19 2022 – Epi-week 09 2023

- A total of 1,064 suspected cases were reported from 21 states. Kano (843), Yobe (86), Katsina (46), Lagos (22), Sokoto (14) & Zamfara (13) accounted for 96.2% of suspected cases.
- Of the 1,064 suspected cases reported, 389 (36.6%) were confirmed (45 were lab confirmed, 343 clinically compatible and 1 was epidemiologically linked), 322 (30.3%) were discarded, 201 (18.9%) are pending classification & 152 (14.3%) are unknown.
- The confirmed cases were distributed across 24 LGAs in six (6) States.
- Majority (305 [78.4%]) of the confirmed cases occurred among children aged 2 – 14 years.
- A total of 62 deaths were recorded among all confirmed cases (CFR: 15.9%)
- Only 60 (15.4%) out of 389 confirmed cases were fully vaccinated with a Diphtheria toxin-containing vaccine.

SITUATION UPDATES

Wk 19 2022 – Wk 09 2023

TOTAL SUSPECTED CASES

1,064

Suspected Cases [wk 6-9 2023]

377

STATE WITH SUSPECTED CASES

21

*New State with Suspected Cases
[wk 6-9 2023]*

0

TOTAL CONFIRMED CASES

389

Confirmed Cases [wk 6-9 2023]

102

STATE WITH CONFIRMED CASES

6

*New State with Confirmed Cases
[wk 6-9 2023]*

2

TOTAL DEATHS AMONG CONFIRMED CASES (CFR)

62 (15.9%)

*Deaths among Confirmed Cases
[wk 6-9 2023] (CFR)*

6 (5.8%)

Table 1: Description of Diphtheria cases by States from epi-week 19 2022 – epi-week 09 2023 ... (1/2)

States	# Suspected Cases	# Confirmed cases (%)	Classification of Confirmed Cases			# Discarded cases (%)	# Pending Cases (%)	# Unknown Cases (%)	# LGAs with Suspected Cases	# LGAs with Confirmed Cases	# Deaths among Confirmed Cases (CFR)
			Lab. confirmed	Epid. linked	Clin. Compatible						
Kano	843	377 (44.7%)	39	0	338	248 (29.4%)	194 (23.0%)	24 (2.8%)	19	16	56 (14.9%)
Yobe	86	2 (2.3%)	0	0	2	6 (7.0%)	1 (1.2%)	77 (89.5%)	4	1	0
Katsina	46	1 (2.2%)	1	0	0	14 (30.4%)	0	31 (67.4%)	15	1	1 (100.0%)
Lagos	22	7 (31.8%)	3	1	3	14 (63.6%)	1 (4.5%)	0	8	4	5 (71.4%)
Sokoto	14	0	0	0	0	7 (50.0%)	0	7 (50.0%)	2	0	-
Zamfara	13	0	0	0	0	2 (15.4%)	0	11 (84.6%)	3	0	-
Enugu	9	0	0	0	0	9 (100.0%)	0	0	1	0	-
Osun	7	1 (14.3%)	1	0	0	2 (28.6%)	3 (42.9%)	1 (14.3%)	3	1	0
Kaduna	6	1 (16.7%)	1	0	0	5 (83.3%)	0	0	2	1	0
Jigawa	3	0	0	0	0	1 (33.3%)	1 (33.3%)	1 (33.3%)	3	0	-
Niger	2	0	0	0	0	2 (100.0%)	0	0	2	0	-
Kebbi	2	0	0	0	0	2 (100.0%)	0	0	1	0	-
Oyo	2	0	0	0	0	1 (50.0%)	1 (50.0%)	0	2	0	-
Borno	2	0	0	0	0	2 (100.0%)	0	0	2	0	-
Kwara	1	0	0	0	0	1 (100.0%)	0	0	1	0	-

Table 1: Description of Diphtheria cases by States from epi-week 19 2022 – epi-week 09 2023 ... (2/2)

States	# Suspected Cases	# Confirmed cases (%)	Classification of Confirmed Cases			# Discarded cases (%)	# Pending Cases (%)	# Unknown Cases (%)	# LGAs with Suspected Cases	# LGAs with Confirmed Cases	# Deaths among Confirmed Cases (CFR)
			Lab. confirmed	Epid. linked	Clin. Compatible						
Gombe	1	0	0	0	0	1 (100.0%)	0	0	1	0	-
Bayelsa	1	0	0	0	0	1 (100.0%)	0	0	1	0	-
Nasarawa	1	0	0	0	0	1 (100.0%)	0	0	1	0	-
FCT	1	0	0	0	0	1 (100.0%)	0	0	1	0	-
Ogun	1	0	0	0	0	1 (100.0%)	0	0	1	0	-
Delta	1	0	0	0	0	1 (100.0%)	0	0	1	0	-
TOTAL	1,064	389 (36.6%)	45	1	343	322 (30.3%)	201 (18.9%)	152 (14.3%)	74	24	62 (15.9%)

- **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**

Table 2: Laboratory results of Diphtheria cases by States from epi-week 19 2022 – epi-week 09 2023

States	# Suspected Cases	# Sample Collected (SCR)*	Culture Results			Toxin Production			
			Positive	Negative	Pending	Positive	Negative	Pending	Not Done
Kano	843	480 (56.9%)	69	238	173	39	9	21	0
Yobe	86	14 (16.3%)	3	11		0	0	1	2
Katsina	46	23 (50.0%)	5	18	1	1	4	0	0
Lagos	22	19 (86.4%)	3	15		3	0	0	0
Sokoto	14	7 (50.0%)	0	6	0	-	-	-	-
Zamfara	13	2 (15.4%)	0	9	0	-	-	-	-
Enugu	9	9 (100.0%)	0	7	0	-	-	-	-
Osun	7	6 (85.7%)	1	2	3	1	0	0	0
Kaduna	6	6 (100.0%)	1	5	0	1	0	0	0
Jigawa	3	2 (66.7%)	0	2	1	-	-	-	-
Niger	2	2 (100.0%)	0	2	0	-	-	-	-
Kebbi	2	2 (100.0%)	0	1	0	-	-	-	-
Oyo	2	2 (100.0%)	0	2	1	-	-	-	-
Borno	2	2 (100.0%)	0	1	0	-	-	-	-
Kwara	1	1 (100.0%)	0	2	0	-	-	-	-
Gombe	1	1 (100.0%)	0	1	0	-	-	-	-
Bayelsa	1	1 (100.0%)	0	1	0	-	-	-	-
Nasarawa	1	1 (100.0%)	0	1	0	-	-	-	-
FCT	1	1 (100.0%)	0	1	0	-	-	-	-
Ogun	1	1 (100.0%)	0	1	0	-	-	-	-
Delta	1	1 (100.0%)	0	1	0	-	-	-	-
TOTAL	1,064	583 (54.8%)	82	308	179	45	13	22	2

*SCR: Sample Collection Rate

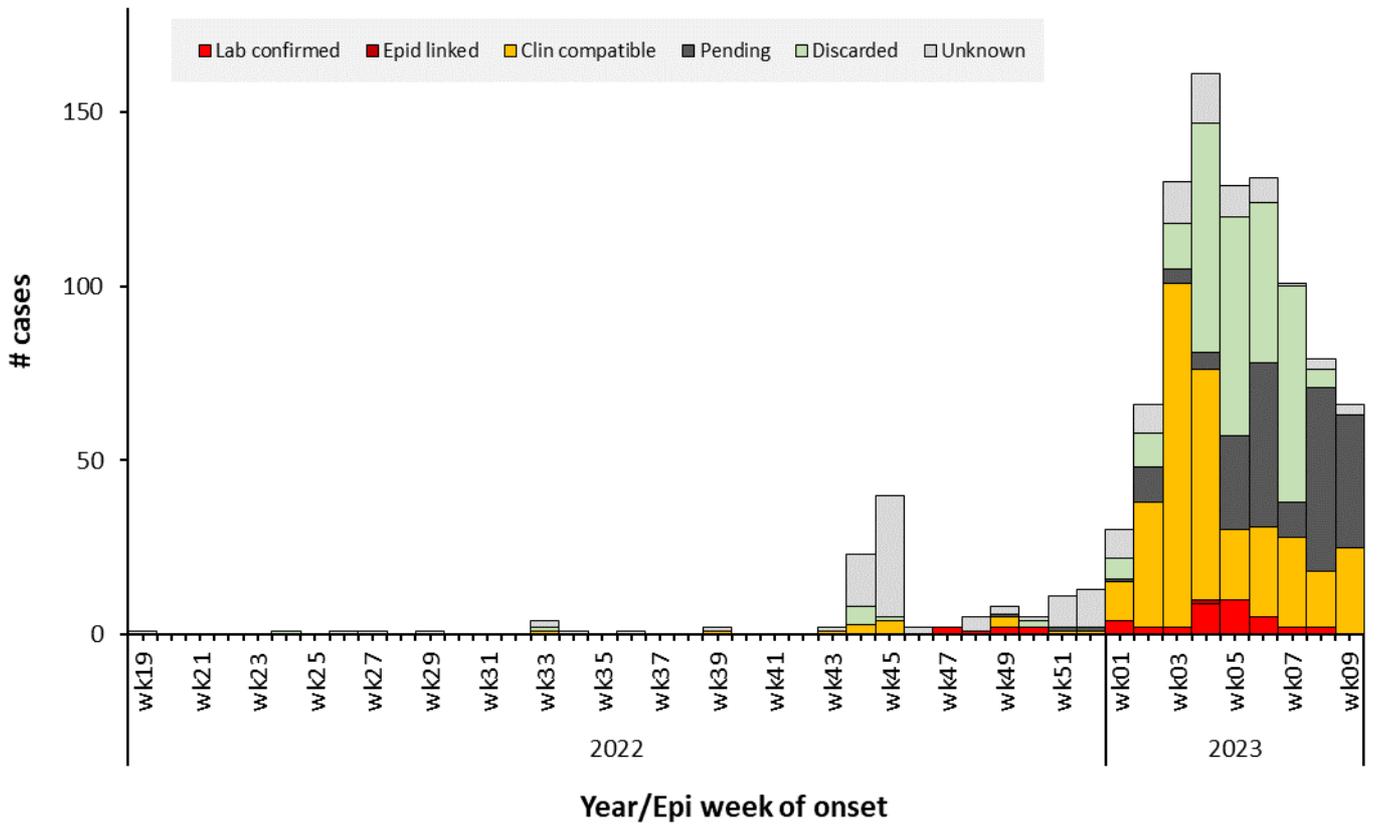


Figure 1: Epi-curve of Diphtheria cases by year/epi-week in Nigeria, epi-week 19 2022 – epi-week 09 2023

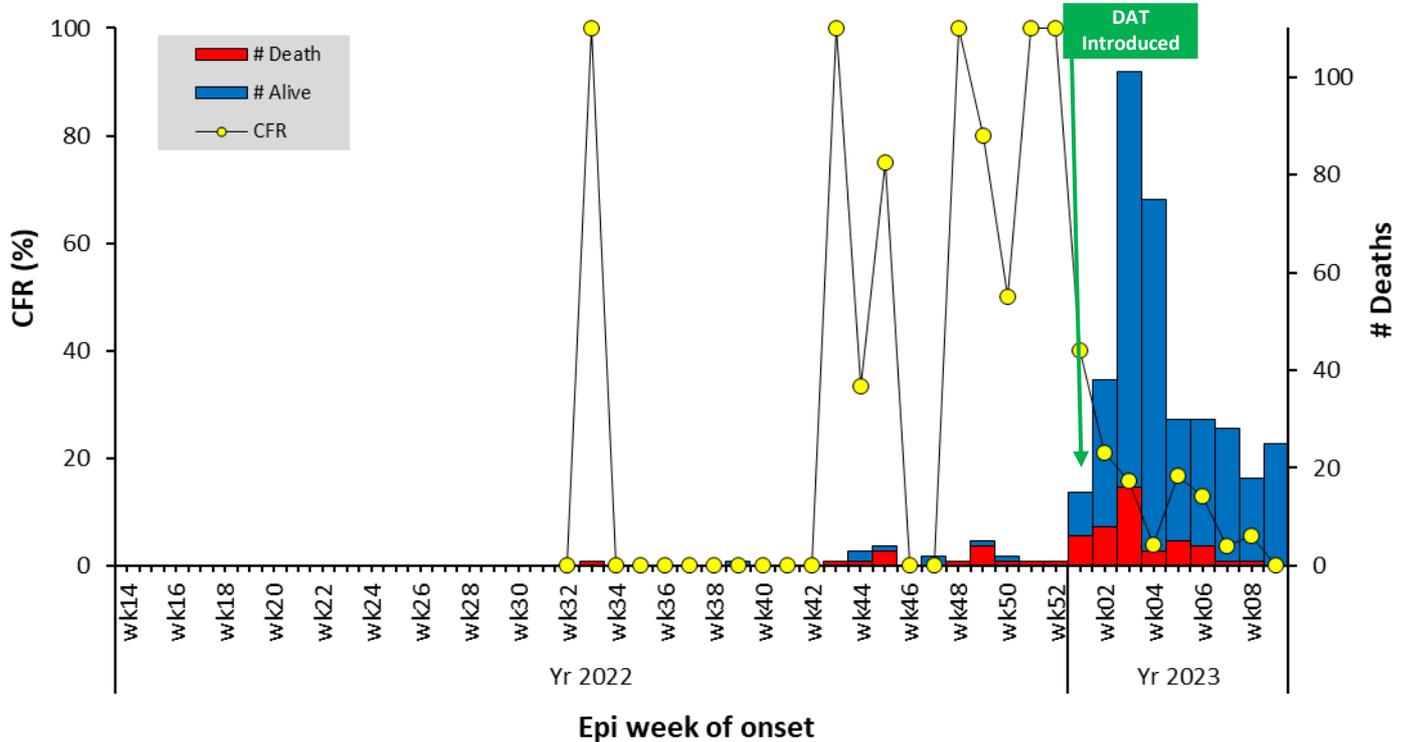


Figure 2: Weekly case fatality rate among confirmed Diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 09 2023

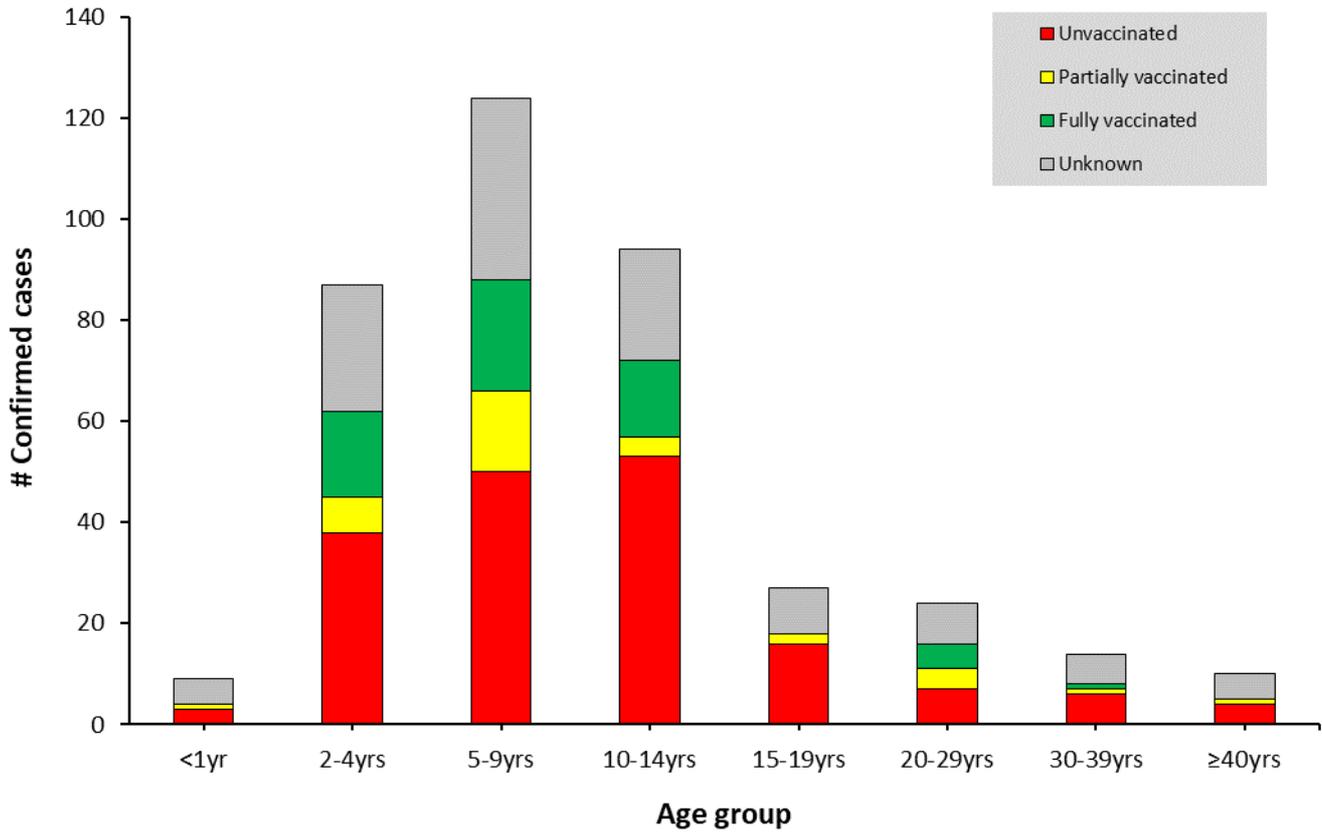


Figure 3: Age distribution and vaccination status of confirmed Diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 09 2023

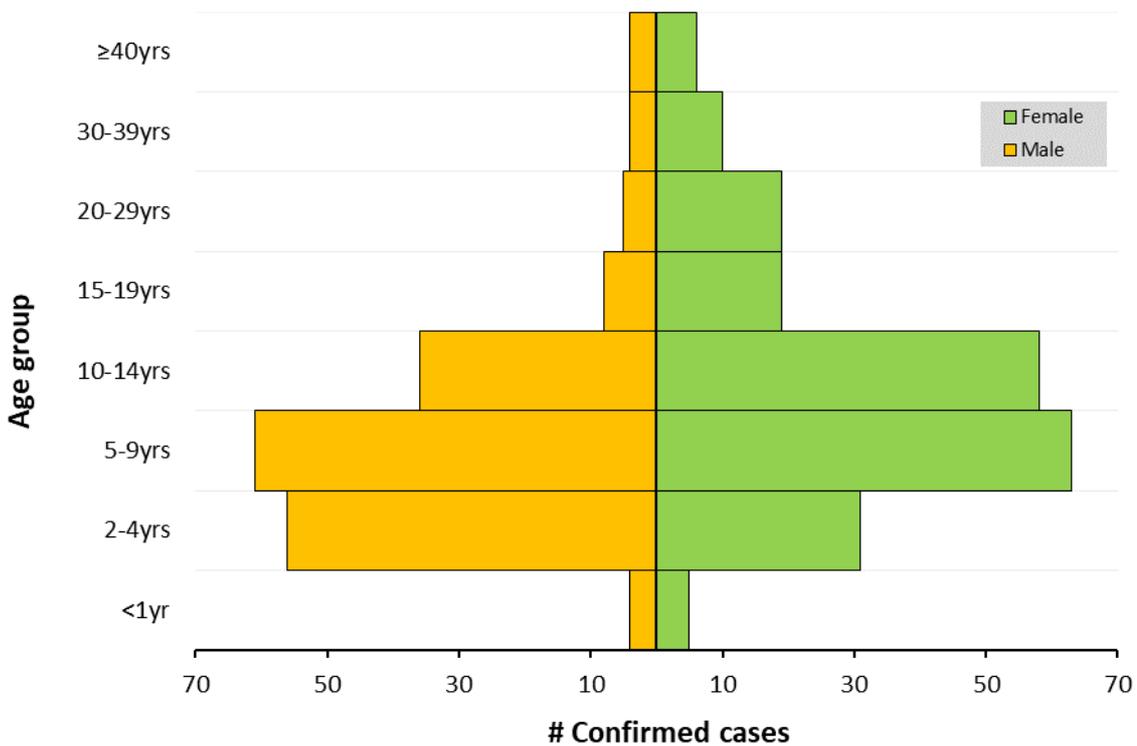


Figure 4: Age-sex distribution of confirmed Diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 09 2023

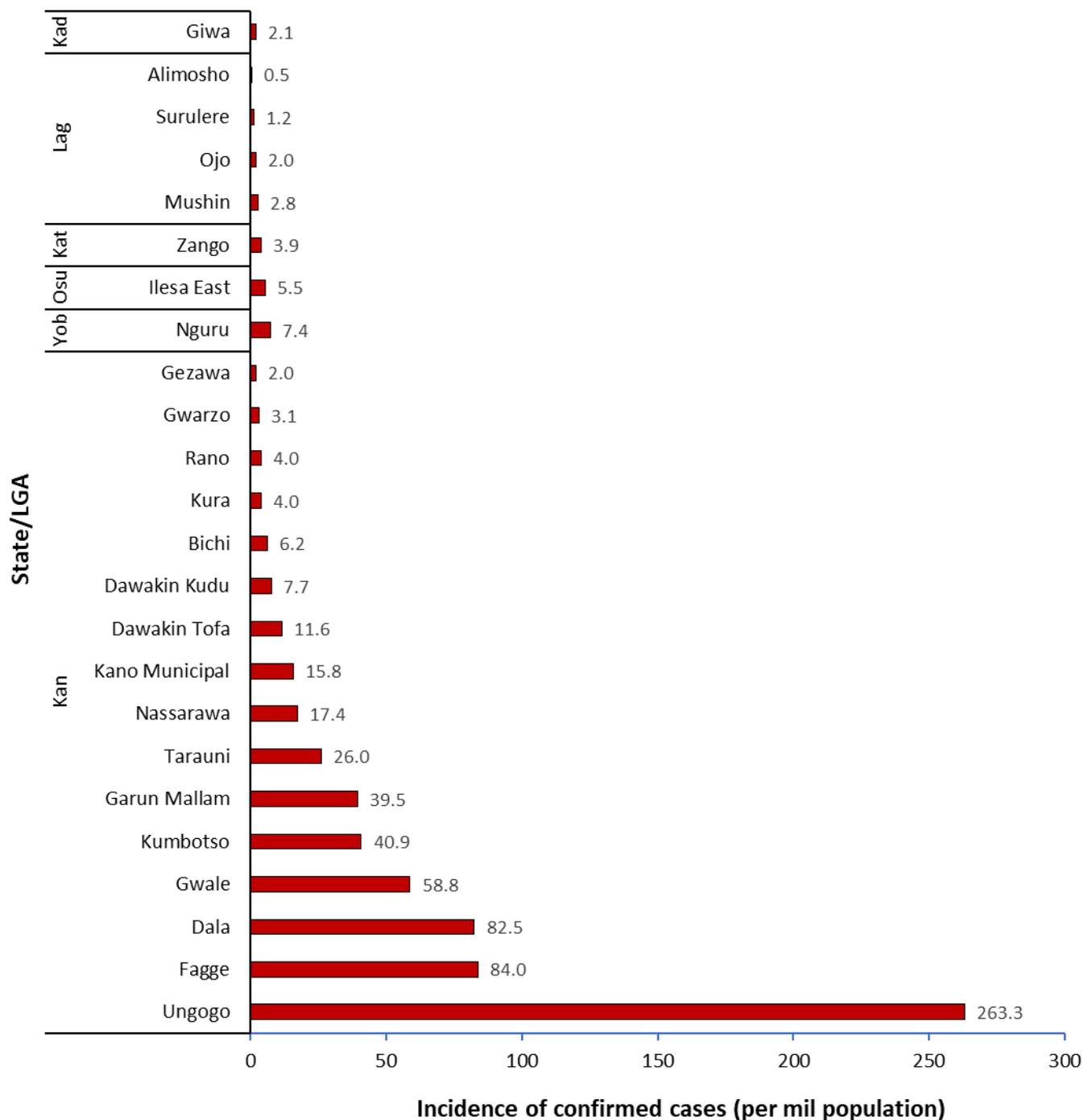


Figure 5: Incidence of confirmed Diphtheria cases (LC+EL+CC) by States/LGA in Nigeria, epi-week 19 2022 – epi-week 09 2023

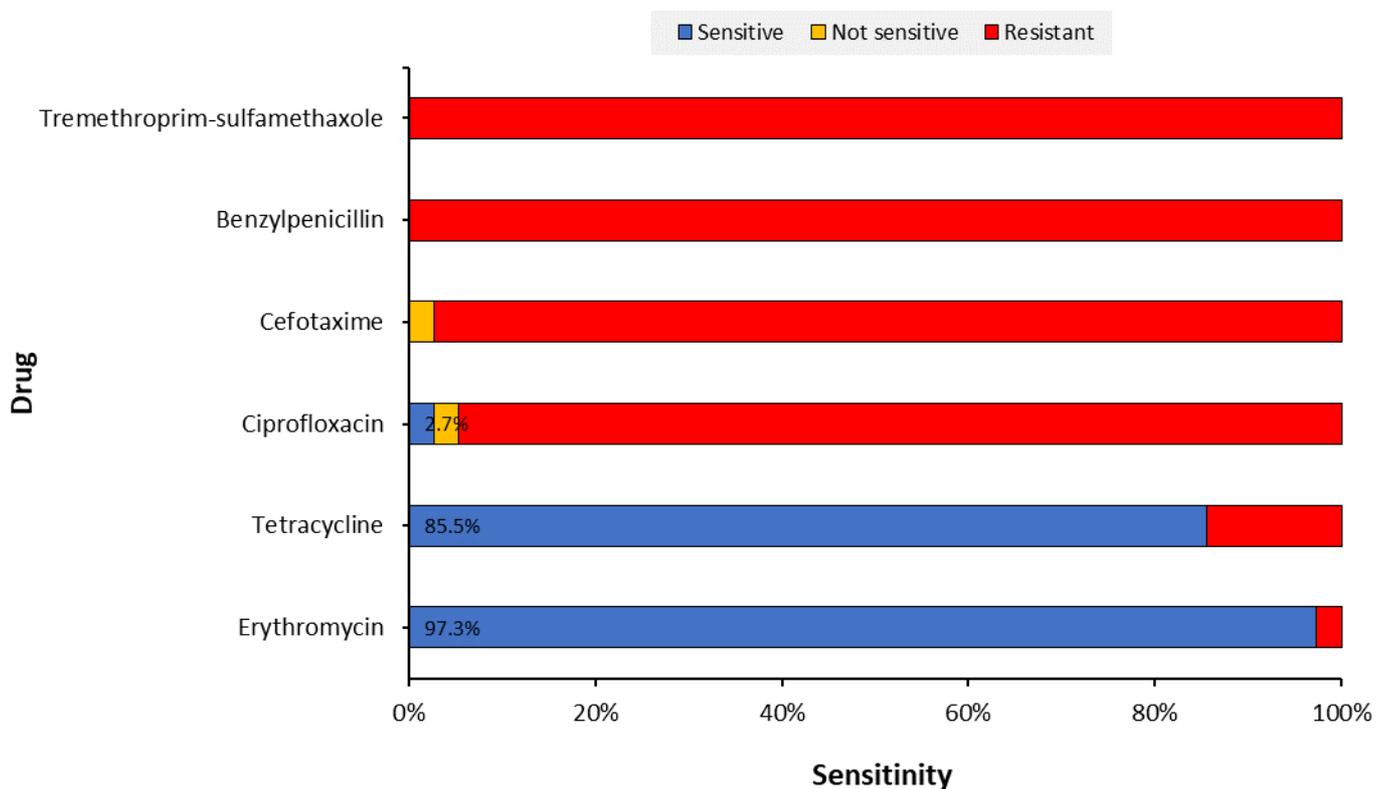


Figure 6: Drug sensitivity results of Toxigenic *Corynebacterium diphtheriae* isolated in Nigeria, epi-week 09 2023 (n = 42)