

# DIPHTHERIA SITUATION REPORT

Serial Number 06

Data as of 31<sup>st</sup> May 2023



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## HIGHLIGHTS

### In May 2023

- A total of 176 suspected cases were reported from Kano state.
- Of the 176 suspected cases reported, 54 (30.7%) are confirmed (17 epidemiologically [epid] linked; 37 clinically compatible), 120 (68%) are pending classification & 2 (65.5%) are unknown.
- No death was recorded among confirmed cases.

### Cumulatively: May 2022 – May 2023

- A total of 2,006 suspected cases were reported from 23 states.
- Kano (1,747), Yobe (95), Katsina (61), Lagos (27), Sokoto (14) & Zamfara (13) accounted for 97.6% of suspected cases.
- Of the 2,006 suspected cases reported, 672 (33.5%) were confirmed (52 lab confirmed; 20 epid linked; 600 clinically compatible), 487 (24.3%) were discarded, 575 (28.7%) are pending classification & 272 (13.6%) are unknown.
- The confirmed cases were distributed across 33 LGAs in seven (7) States.
- Majority [491 (73.1%)] of the confirmed cases occurred among children aged 2 – 14 years.
- A total of 73 deaths were recorded among all confirmed cases (CFR: 10.9%)
- Only 144 (21.4%) out of 672 confirmed cases were fully vaccinated with a diphtheria toxin-containing vaccine.

## SITUATION UPDATES

May 2022 – May 2023

### TOTAL SUSPECTED CASES

**2,006**

*Suspected Cases [May 2023]*

**176**

### STATE WITH SUSPECTED CASES

**23**

*New State with Suspected Cases*

*[May 2023]*

**0**

### TOTAL CONFIRMED CASES

**672**

*Confirmed Cases [May 2023]*

**54**

### STATE WITH CONFIRMED CASES

**7**

*New State with Confirmed Cases*

*[May 2023]*

**0**

### TOTAL DEATHS AMONG CONFIRMED CASES (CFR)

**73 (10.9%)**

*Deaths among Confirmed Cases*

*[May 2023] (CFR)*

**0**

**Table 1: Description of diphtheria cases by State, May 2022 – May 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	1,747	656 (37.6%)	44	18	594	396 (22.6%)	548 (31.4%)	147 (8.4%)	23	20	67 (10.2%)
Yobe	95	3 (3.2%)	0	1	2	6 (6.3%)	7 (7.3%)	79 (83.2%)	4	2	0
Katsina	61	2 (3.3%)	1	0	1	26 (42.6%)	6 (9.8%)	27 (44.3%)	18	2	1 (50%)
Lagos	27	8 (29.6%)	4	1	3	15 (55.6%)	4 (14.8%)	0	9	4	5 (62.5%)
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 (42.8%)	1 (14.3%)	2	1	0
Niger	6	0	0	0	0	6 (100.0%)	0	0	3	1	-
Kaduna	6	1 (16.7%)	1	0	0	5 (83.3%)	0	0	3	0	0
Oyo	4	0	0	0	0	1 (25.0%)	3 (75.0%)	0	2	0	-
Jigawa	3	0	0	0	0	1 (33.3%)	1 (33.3%)	1 (33.3%)	3	0	-

**Table 1: Description of diphtheria cases by State, May 2022 – May 2023 ... (2/2)**

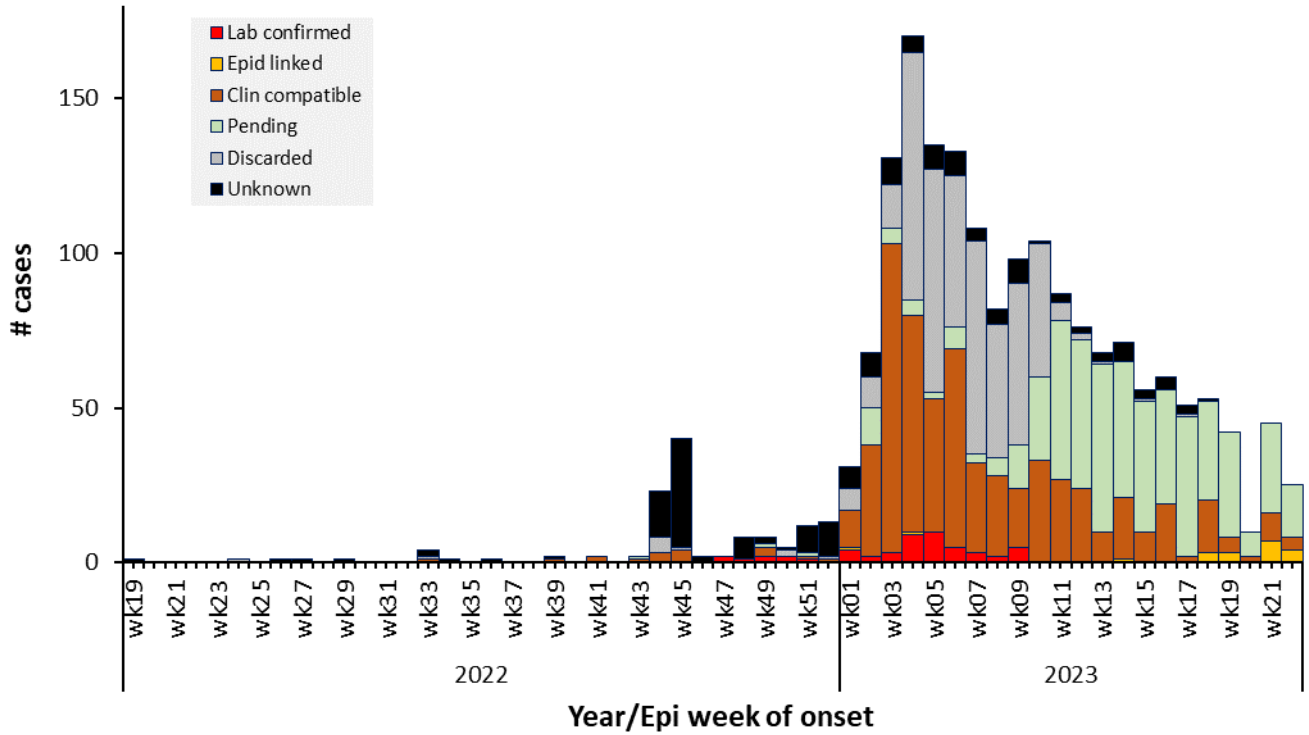
States	# Suspected Cases	# Confirmed cases (%)	Classification of Confirmed Cases			# Discarded* cases (%)	# Pending** Cases (%)	# Unknown Cases (%)	# LGAs with Suspected Cases	# LGAs with Confirmed Cases	# Deaths among Confirmed Cases (CFR)
			Lab Confirmed	Epid-linked	Clin Compatible						
Kebbi	3	0	0	0	0	2 (66.7%)	0	0	2	0	-
Borno	2	0	0	0	0	2 (100.0%)	0	0	2	0	-
Cross river	1	1 (100.0%)	1	0	0	0	0	0	1	0	0
Anambra	1	0	0	0	0	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	-
Delta	1	0	0	0	0	1 (100.0%)	0	0	1	0	-
Gombe	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	-
Kwara	1	0	0	0	0	1 (100.0%)	0	0	1	0	-
<b>TOTAL</b>	<b>2,006</b>	<b>672 (33.5%)</b>	<b>52</b>	<b>20</b>	<b>600</b>	<b>487 (24.3%)</b>	<b>575 (28.7%)</b>	<b>273 (13.5%)</b>	<b>82</b>	<b>33</b>	<b>73 (10.9%)</b>

- **\*Discarded cases:** a suspected diphtheria case that is negative for diphtheria culture OR positive for diphtheria culture but negative for toxin production test; **\*\*Pending cases:** a suspected yet to be completely investigated including lab testing.
- **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**

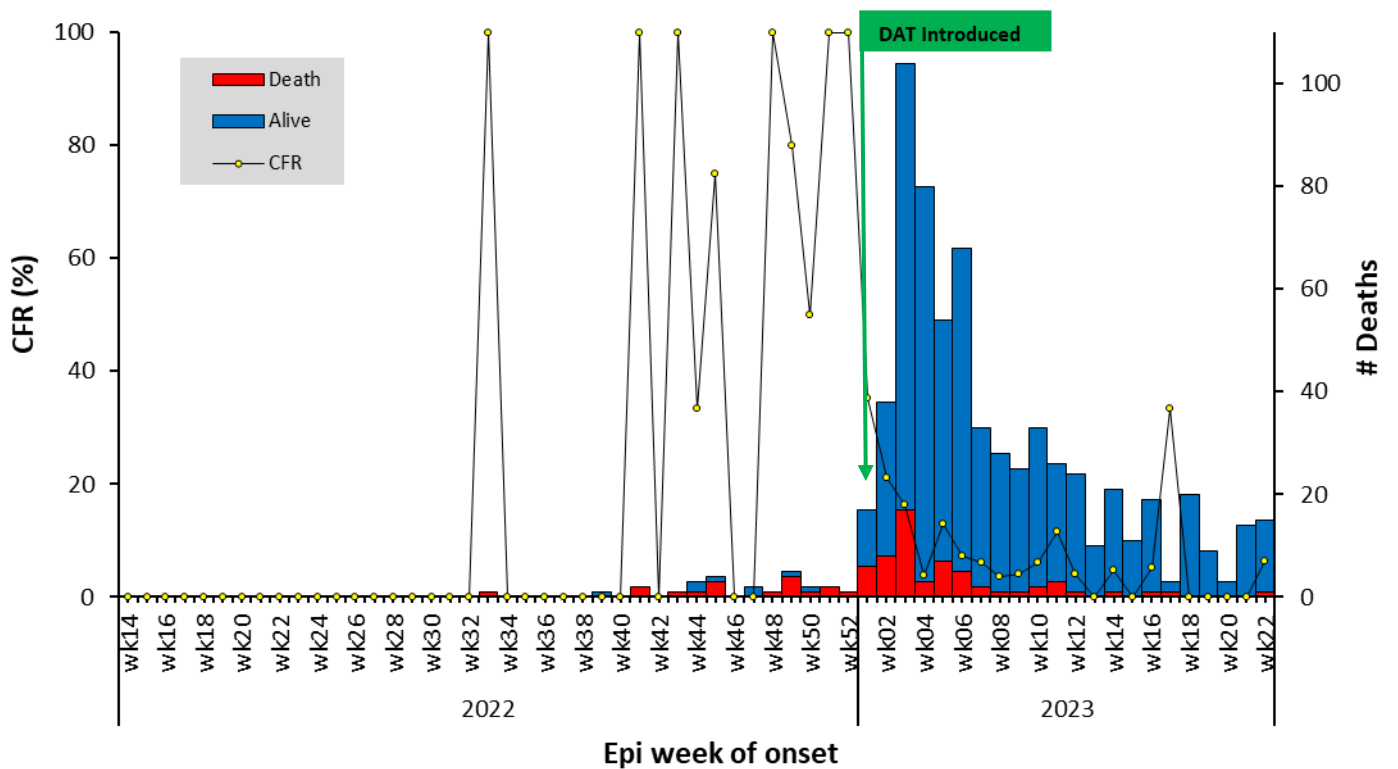
**Table 2: Laboratory results of diphtheria cases by State, May 2022 – May 2023**

States	# Suspected Cases	# Sample Collected (SCR)*	Culture Results			Toxin Production			
			Positive	Negative	Pending	Positive	Negative	Pending	Not Done
Kano	1,747	1,000 (57.2%)	93	376	317	44	20	27	0
Yobe	95	16 (16.8%)	3	6	0	0	0	1	8
Katsina	61	33 (54.1%)	1	26	0	1	0	0	9
Lagos	27	24 (88.9%)	5	17	1	4	0	2	3
Sokoto	14	7 (50.0%)	0	7	0	-	-	-	-
Zamfara	13	2 (15.4%)	0	2	0	-	-	-	-
Enugu	9	9 (100.0%)	0	9	0	-	-	-	-
Osun	7	6 (85.7%)	1	2	3	1	2	0	0
Niger	6	6 (100.0%)	0	6	0	1	0	0	0
Kaduna	6	6 (100.0%)	1	5	0	1	0	0	0
Oyo	4	4 (100.0%)	0	3	1	-	-	-	-
Jigawa	3	2 (66.7%)	0	1	1	0	0	1	1
Kebbi	3	3 (100.0%)	0	2	0	-	-	-	-
Borno	2	2 (100.0%)	0	2	0	-	-	-	-
Cross river	1	1 (100.0%)	1	0	0	1	0	0	0
Anambra	1	1 (100.0%)	0	0	0	-	-	-	-
Bayelsa	1	1 (100.0%)	0	1	0	-	-	-	-
Nasarawa	1	1 (100.0%)	0	1	0	-	-	-	-
Delta	1	1 (100.0%)	0	1	0	-	-	-	-
Gombe	1	1 (100.0%)	0	1	0	-	-	-	-
FCT	1	1 (100.0%)	0	1	0	-	-	-	-
Ogun	1	1 (100.0%)	0	1	0	-	-	-	-
Kwara	1	1 (100.0%)	0	1	0	-	-	-	-
<b>TOTAL</b>	<b>1,411</b>	<b>1,129 (56.3%)</b>	<b>105</b>	<b>471</b>	<b>323</b>	<b>52</b>	<b>22</b>	<b>31</b>	<b>22</b>

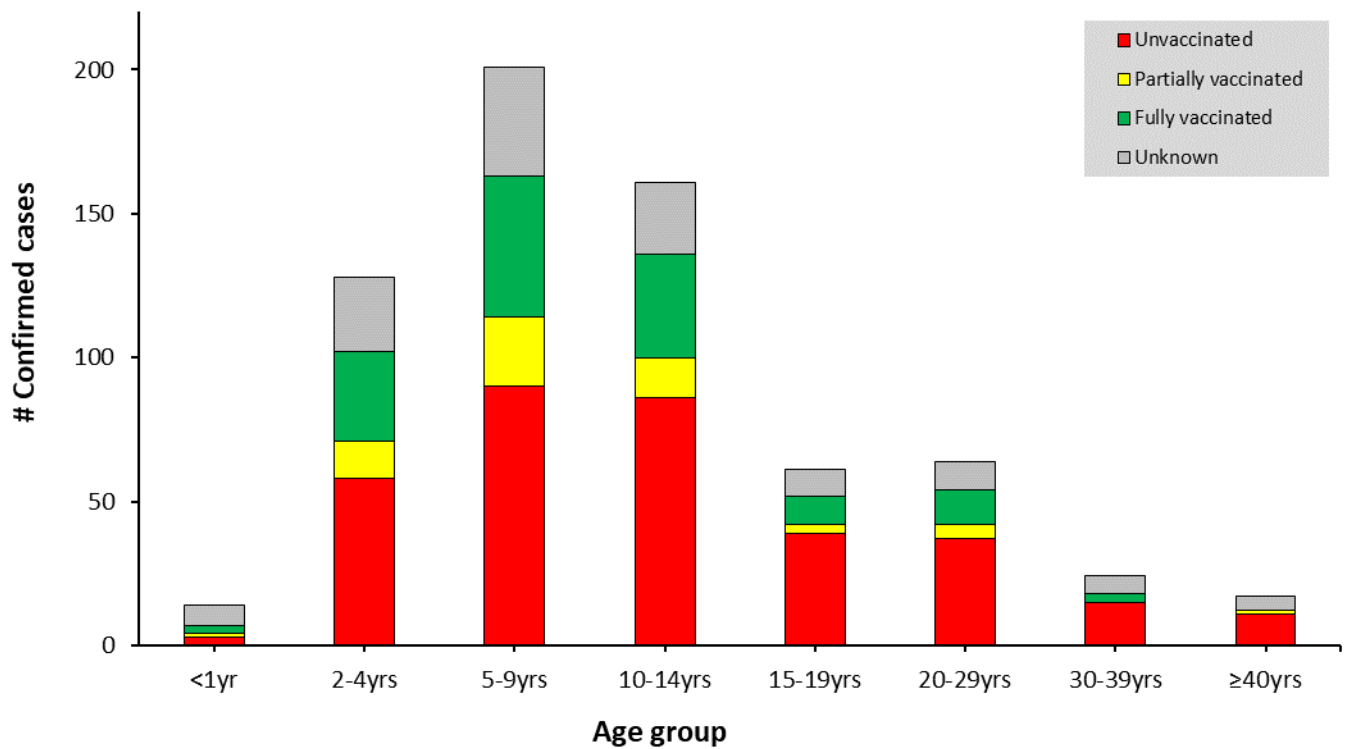
\*SCR: Sample Collection Rate



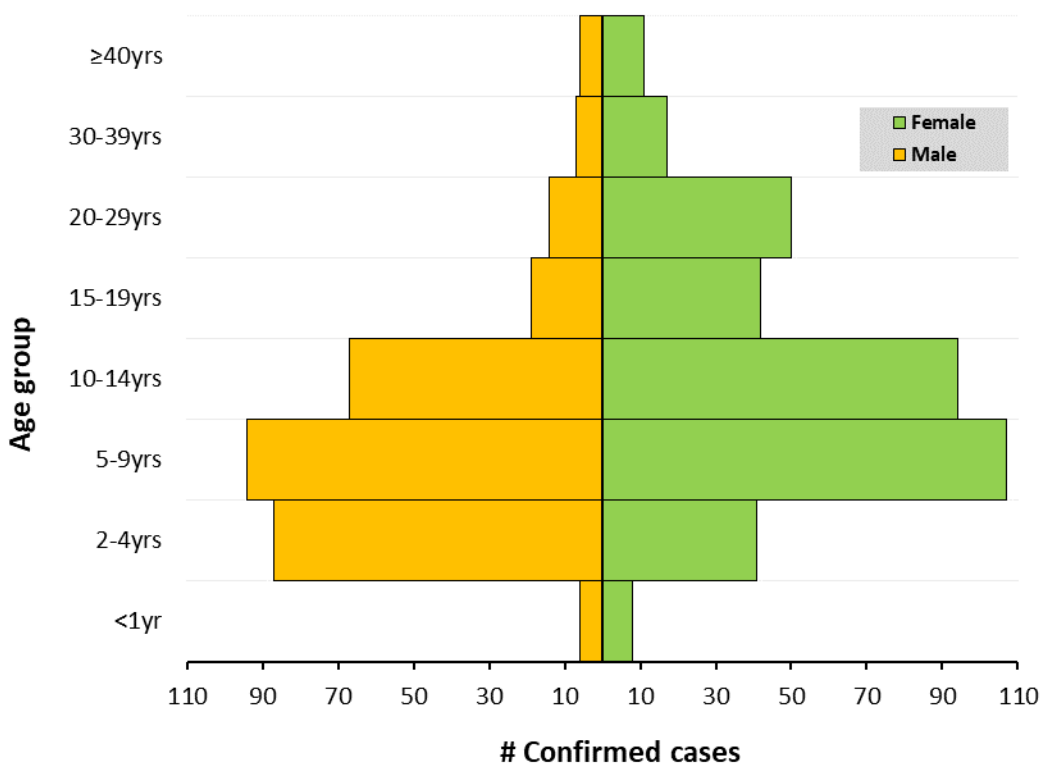
**Figure 1: Epi-curve of diphtheria cases by year/epi-week in Nigeria, May 2022 – May 2023**



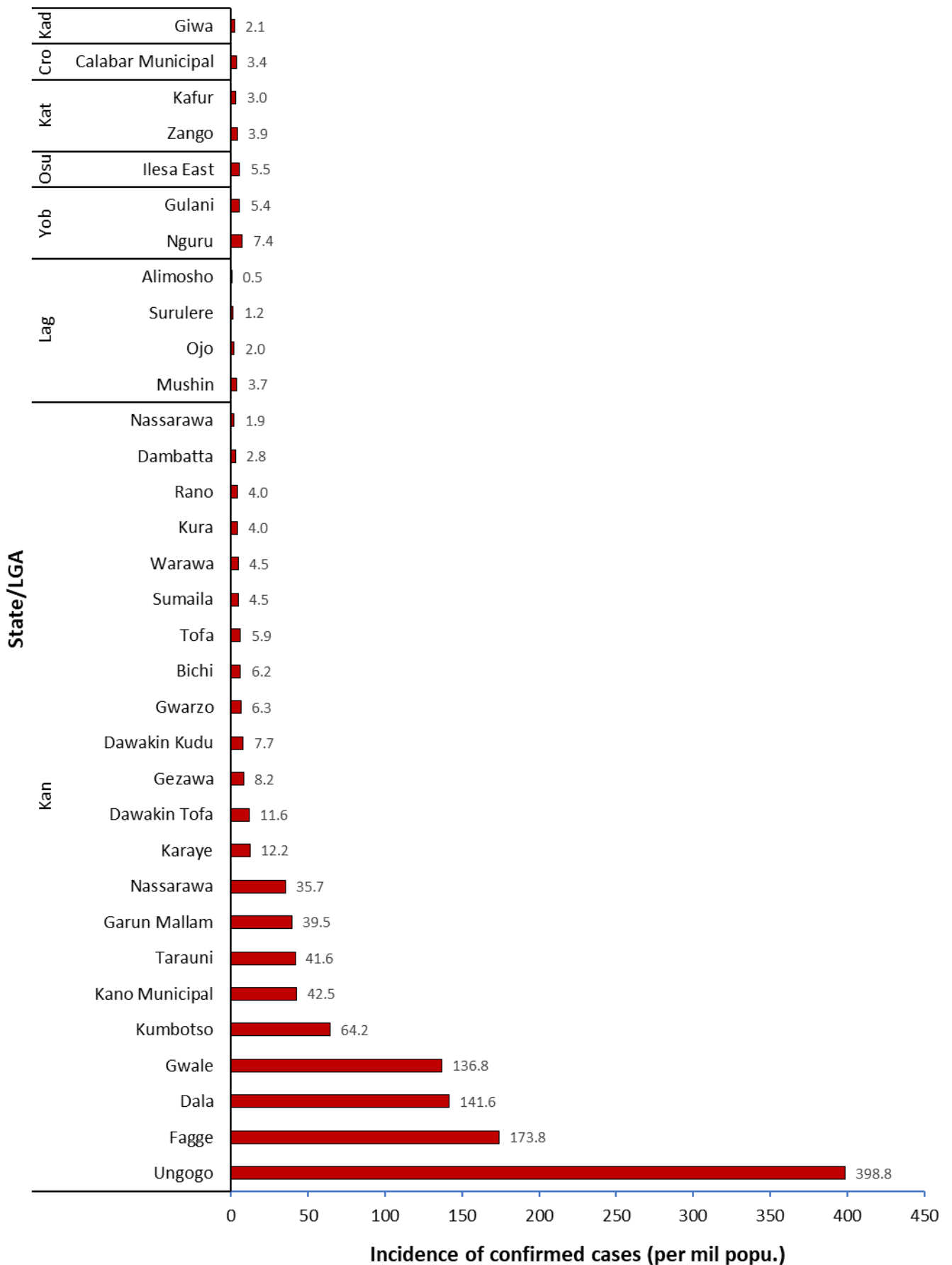
**Figure 2: Weekly case fatality rate among confirmed diphtheria cases in Nigeria, May 2022 – May 2023**



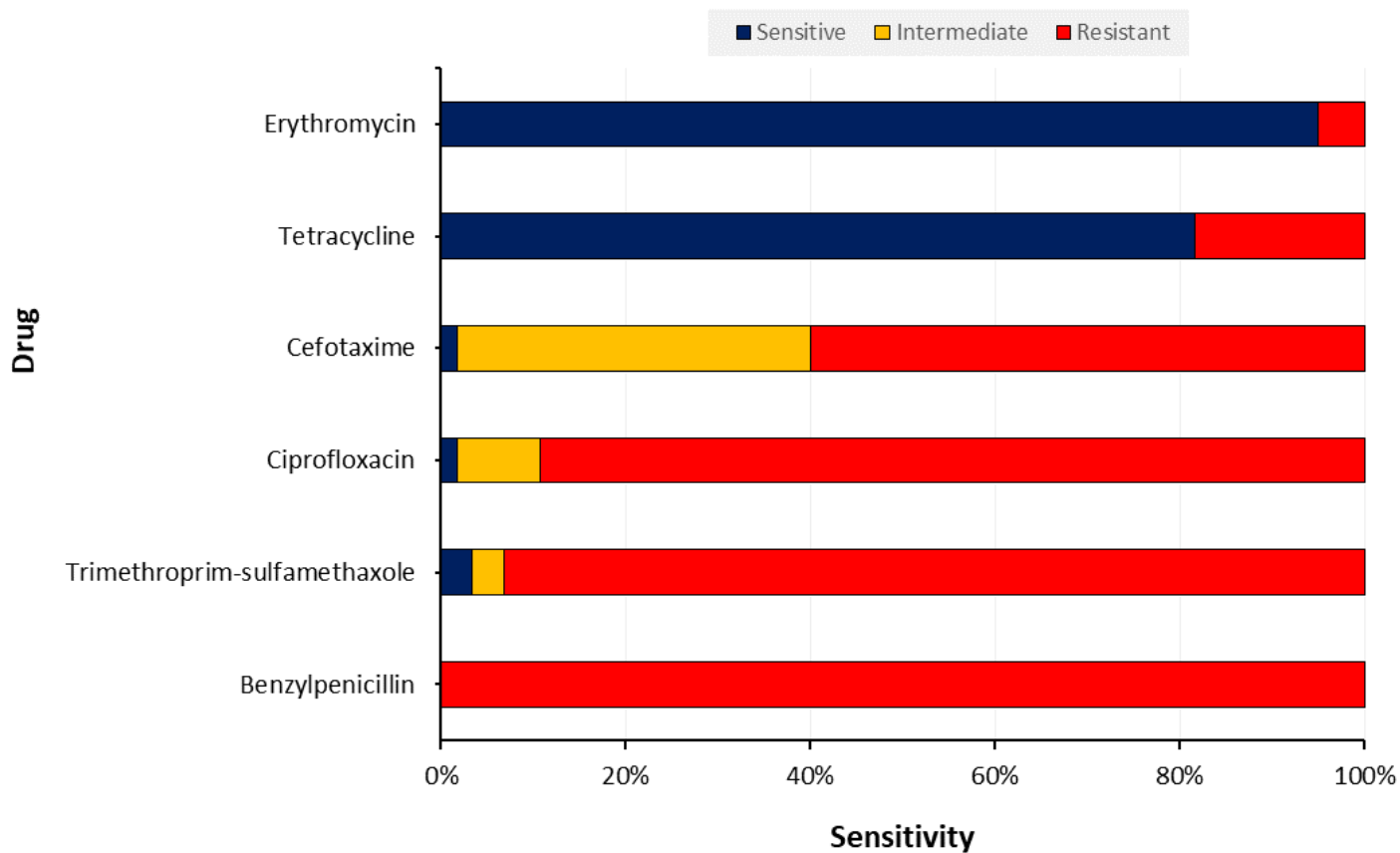
**Figure 3: Age distribution and vaccination status of confirmed diphtheria cases in Nigeria, May 2022 – May 2023**



**Figure 4: Age-sex distribution of confirmed diphtheria cases in Nigeria, May 2022 – May 2023**



**Figure 5: Incidence of confirmed diphtheria cases by States/LGA in Nigeria, May 2022 – May 2023**



**Figure 6: Drug sensitivity results of Toxigenic *Corynebacterium diphtheriae* isolated in Nigeria, May 2022 – May 2023 (n = 60)**