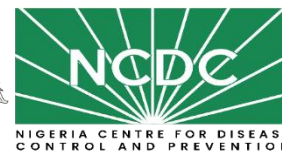


# DIPHTHERIA SITUATION REPORT

Serial Number 07

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



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## HIGHLIGHTS

### In July 2023

- A total of 1,506 suspected cases were reported from 59 LGAs in 11 states across the country.
- Kano (1,055), Yobe (232), Kaduna (85), Katsina (58), Bauchi (47) & FCT (18) accounted for 99.3% of all suspected cases.
- Of the 1,506 suspected cases reported, 579 (38.5%) were confirmed (29 lab confirmed; 114 epid linked; 436 clinically compatible), 650 (43.2%) were discarded, 205 (13.6%) are pending classification & 72 (4.8%) were unknown.
- A total of 39 deaths were recorded among all confirmed cases (CFR: 6.7%).

### Cumulatively: May 2022 – July 2023

- A total of 4,160 suspected cases have been reported from 27 states across 139 LGAs in the country.
- Kano (3,233), Yobe (477), Katsina (132), Kaduna (101), Bauchi (54), FCT (41) & Lagos (30) account for 97.8% of suspected cases.
- Of the 4,160 suspected cases reported, 1,534 (36.9%) were confirmed (87 lab confirmed; 158 epid linked; 1,289 clinically compatible), 1,700 (40.9%) were discarded, 639 (15.4%) are pending classification & 287 (6.9%) unknown.
- The confirmed cases were distributed across 56 LGAs in eleven (11) States.
- Majority [1,018 (66.4%)] of the confirmed cases occurred in children aged 1 – 14 years.
- A total of 137 deaths were recorded among all confirmed cases (CFR: 8.9%).
- Out of the 1,534 confirmed cases reported, 1,257 (81.9%) were not fully vaccinated against diphtheria.

## SITUATION UPDATES

May 2022 – July 2023

### TOTAL SUSPECTED CASES

**4,160**

*Suspected Cases [July 2023]*

**1,506**

### STATE WITH SUSPECTED CASES

**27**

*New State with Suspected Cases*

*[July 2023]*

**3**

### TOTAL CONFIRMED CASES

**1,534**

*Confirmed Cases [July 2023]*

**579**

### STATE WITH CONFIRMED CASES

**11**

*New State with Confirmed Cases*

*[July 2023]*

**3**

### TOTAL DEATHS AMONG CONFIRMED CASES (CFR)

**137 (8.9%)**

*Deaths among Confirmed Cases*

*[July 2023] (CFR)*

**39 (6.7%)**

**Table 1: Description of diphtheria cases by states, May 2022 – July 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						
<b>Kano</b>	3,234	1,207 (37.3%)	47	142	1,018	1,480 (45.8%)	477 (14.7%)	70 (2.2%)	35	27	100 (8.3%)
<b>Yobe</b>	477	252 (52.8%)	11	13	228	75 (15.7%)	38 (8.0%)	112 (23.5%)	12	8	23 (9.1%)
<b>Katsina</b>	132	9 (6.8%)	7	0	2	29 (22.0%)	56 (42.4%)	38 (28.8%)	22	5	2 (22.2%)
<b>Kaduna</b>	101	5 (5.0%)	5	0	0	33 (32.7%)	21 (20.8%)	42 (41.5%)	12	2	0
<b>Bauchi</b>	54	41 (75.9%)	4	0	37	10 (18.5%)	3 (5.6%)	0	6	2	6 (14.6%)
<b>FCT</b>	41	6 (14.6%)	4	2	0	6 (14.6%)	28 (68.3%)	1 (2.4%)	4	5	1 (16.7%)
<b>Lagos</b>	30	8 (26.7%)	4	1	3	17 (56.7%)	5 (16.6%)	0	10	5	5 (62.5%)
<b>Sokoto</b>	14	0	-	-	-	7 (50.0%)	0	7 (50.0%)	2	-	-
<b>Zamfara</b>	13	0	-	-	-	2 (15.4%)	0	11 (84.6%)	3	-	-
<b>Niger</b>	11	2 (18.2%)	2	0	0	9 (81.8%)	0	0	3	1	0
<b>Enugu</b>	9	0	-	-	-	9 (100.0%)	0	0	1	-	-
<b>Osun</b>	9	1 (11.1%)	1	0	0	2 (22.2%)	5 (55.6%)	1 (11.1%)	5	1	0
<b>Gombe</b>	7	2 (28.6%)	2	0	0	5 (71.4%)	0	0	2	1	0
<b>Oyo</b>	7	0	-	-	-	6 (85.7%)	1 (14.3%)	0	6	-	-

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

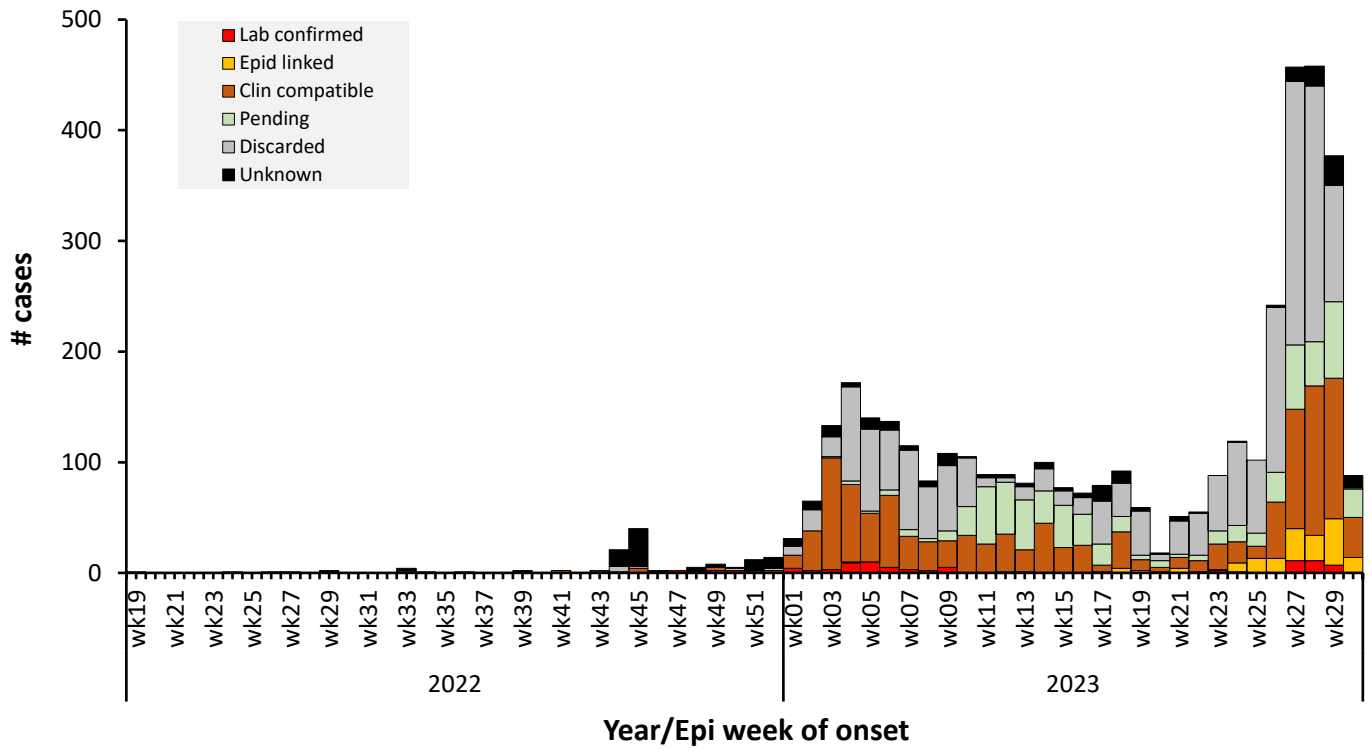
States	# Suspected Cases	# Confirmed cases (%)	Classification of Confirmed Cases			# Discarded cases (%)	# Pending Cases (%)	# Unknown Cases (%)	# LGAs with Suspected Cases	# LGAs with Confirmed Cases	# Deaths among Confirmed Cases (CFR)
			Lab Confirmed	Epid-linked	Clin Compatible						
Jigawa	4	1 (25.0%)	0	0	1	25.0%	1 (25.0%)	1 (25.0%)	4	1	0
Kebbi	3	0	-	-	-	66.7%	1 (33.3%)	0	2	-	-
Ondo	2	0	-	-	-	0	0	2 (100.0%)	2	-	-
Edo	2	0	-	-	-	0	0	2 (100.0%)	1	-	-
Borno	2	0	-	-	-	100.0%	0	0	2	-	-
Ogun	1	0	-	-	-	100.0%	0	0	1	-	-
Cross river	1	1 (100%)	-	-	-	0	0	0	1	1	-
Kwara	1	0	-	-	-	100.0%	0	0	1	-	-
Bayelsa	1	0	-	-	-	100.0%	0	0	1	-	-
Delta	1	0	-	-	-	100.0%	0	0	1	-	-
Nasarawa	1	0	-	-	-	100.0%	0	0	1	-	-
Ekiti	1	0	-	-	-	0	1 (100.0%)	0	1	-	-
Anambra	1	0	-	-	-	0	1 (100.0%)	0	1	-	-
<b>TOTAL</b>	<b>4,160</b>	<b>1,534 (36.9%)</b>	<b>87</b>	<b>158</b>	<b>1,289</b>	<b>40.9%</b>	<b>639 (15.4%)</b>	<b>287 (6.9%)</b>	<b>139</b>	<b>56</b>	<b>137 (8.9%)</b>

- **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**

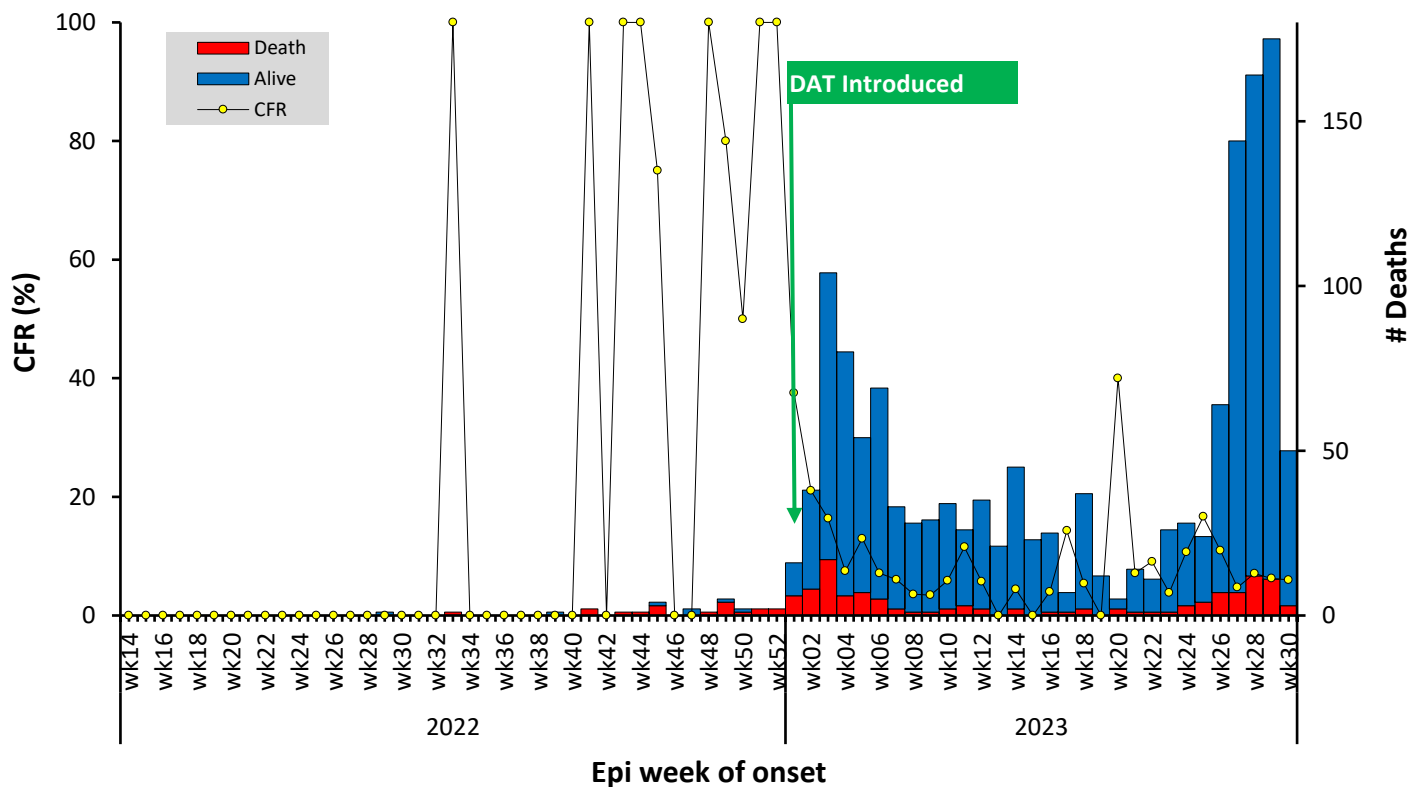
**Table 2: Laboratory results of diphtheria cases by states, May 2022 – July 2023**

States	# Suspected Cases	# Sample Collected (SCR)*	Culture Results			Toxin Production			
			Positive	Negative	Pending	Positive	Negative	Pending	Not Done
Kano	3,234	2,059 (63.7%)	97	1,436	527	47	44	7	0
Yobe	477	127 (26.6%)	11	75	42	11	0	4	79
Katsina	132	92 (69.7%)	7	29	59	7	11	40	
Kaduna	101	60 (59.4%)	5	33	22	5	0	28	12
Bauchi	54	11 (20.4%)	4	5	0	4	10		
FCT	41	40 (97.6%)	4	6	28	4	0	37	
Lagos	30	27 (90.0%)	5	17	3	4	0	2	19
Sokoto	14	7 (50.0%)	0	7	0	0	-	-	-
Zamfara	13	2 (15.4%)	0	2	0	0	-	-	-
Niger	11	11 (100.0%)	2	9	0	2	0	-	4
Enugu	9	9 (100.0%)	0	9	0	0	-	9	-
Osun	9	8 (88.9%)	2	2	4	1	2	1	-
Gombe	7	7 (100.0%)	0	7	0	2	4	-	1
Oyo	7	7 (100.0%)	0	6	1	0	-	-	3
Jigawa	4	2 (50.0%)	0	1	1	0	-	3	-
Kebbi	3	3 (100.0%)	0	2	1	0	-	-	-
Ondo	2	0	0		0	0	-	-	-
Edo	2	0	0		0	0	-	-	-
Borno	2	2 (100.0%)	0	2	0	0	-	2	-
Ogun	1	1 (100.0%)	0	1	0	0	-	-	-
Cross river	1	1 (100.0%)	0		1	0	-	1	-
Kwara	1	1 (100.0%)	0	1	0	0	-	-	-
Bayelsa	1	1 (100.0%)	0	1	0	0	-	1	-
Delta	1	1 (100.0%)	0	1	0	0	-	1	-
Nasarawa	1	1 (100.0%)	0	1	0	0	-	-	-
Ekiti	1	1 (100.0%)	0	0	1	0	-	1	-
Anambra	1	1 (100.0%)	0	0	1	0	-	1	
<b>TOTAL</b>	<b>4160</b>	<b>2,482 (59.7%)</b>	<b>137</b>	<b>1,653</b>	<b>691</b>	<b>87</b>	<b>7-1</b>	<b>138</b>	<b>118</b>

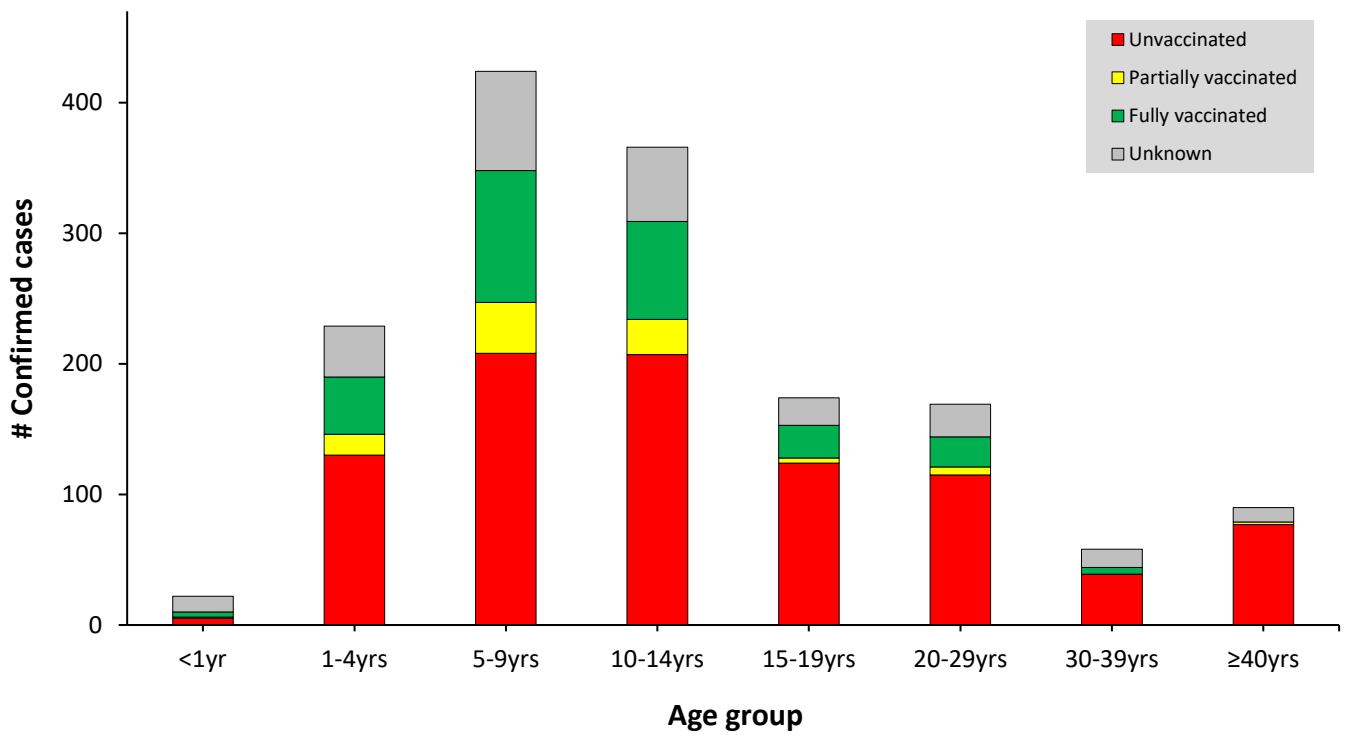
\*SCR: Sample Collection Rate



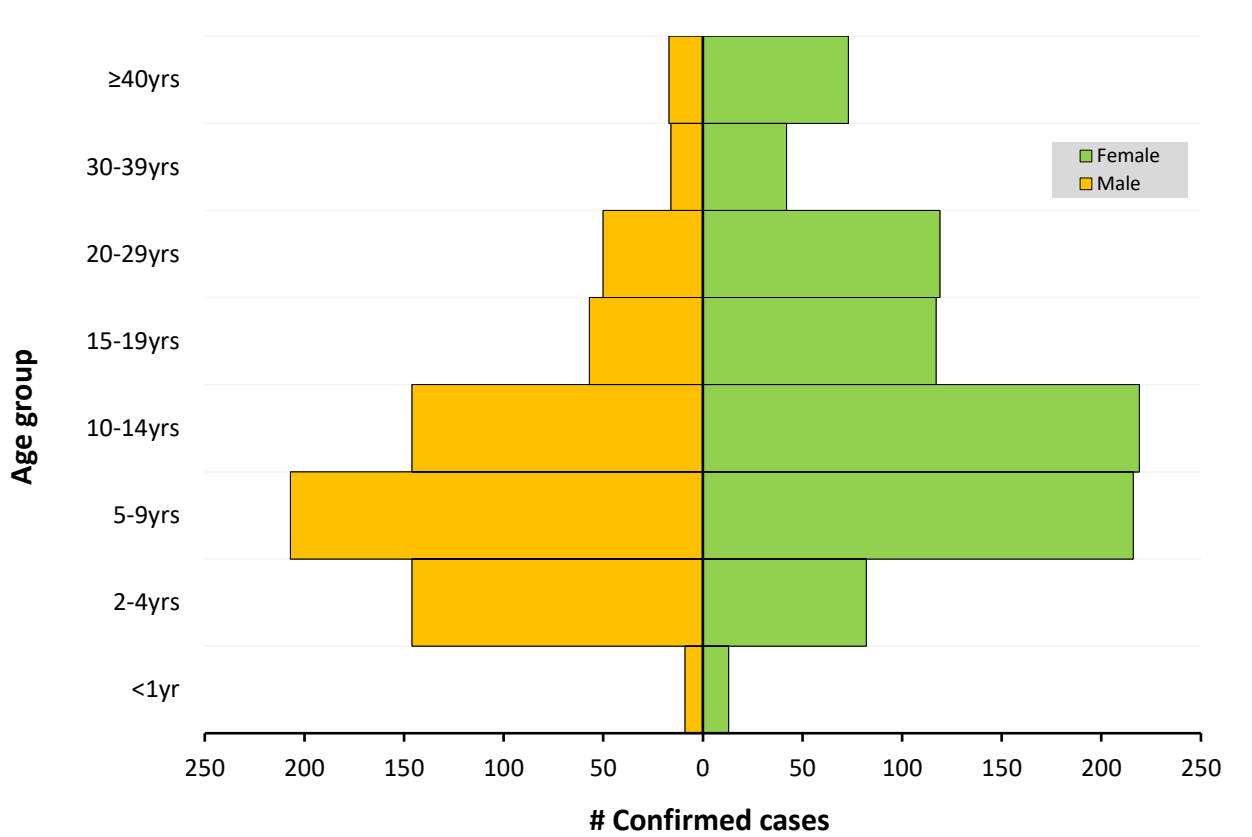
**Figure 1: Epi-curve of diphtheria cases by year/epi-week and classification in Nigeria, May 2022 – July 2023**



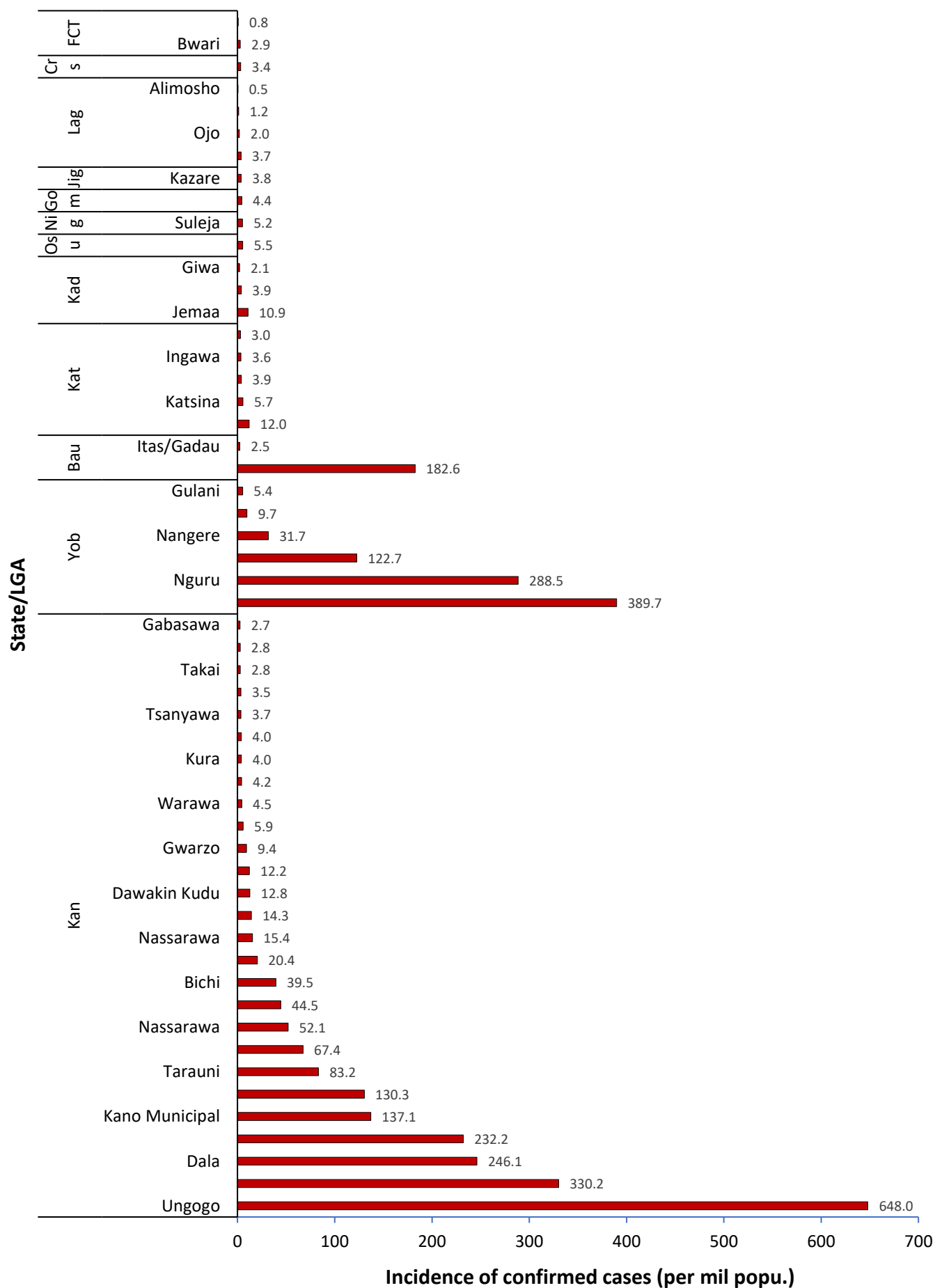
**Figure 2: Weekly case fatality rate among confirmed diphtheria cases in Nigeria, May 2022 – July 2023**



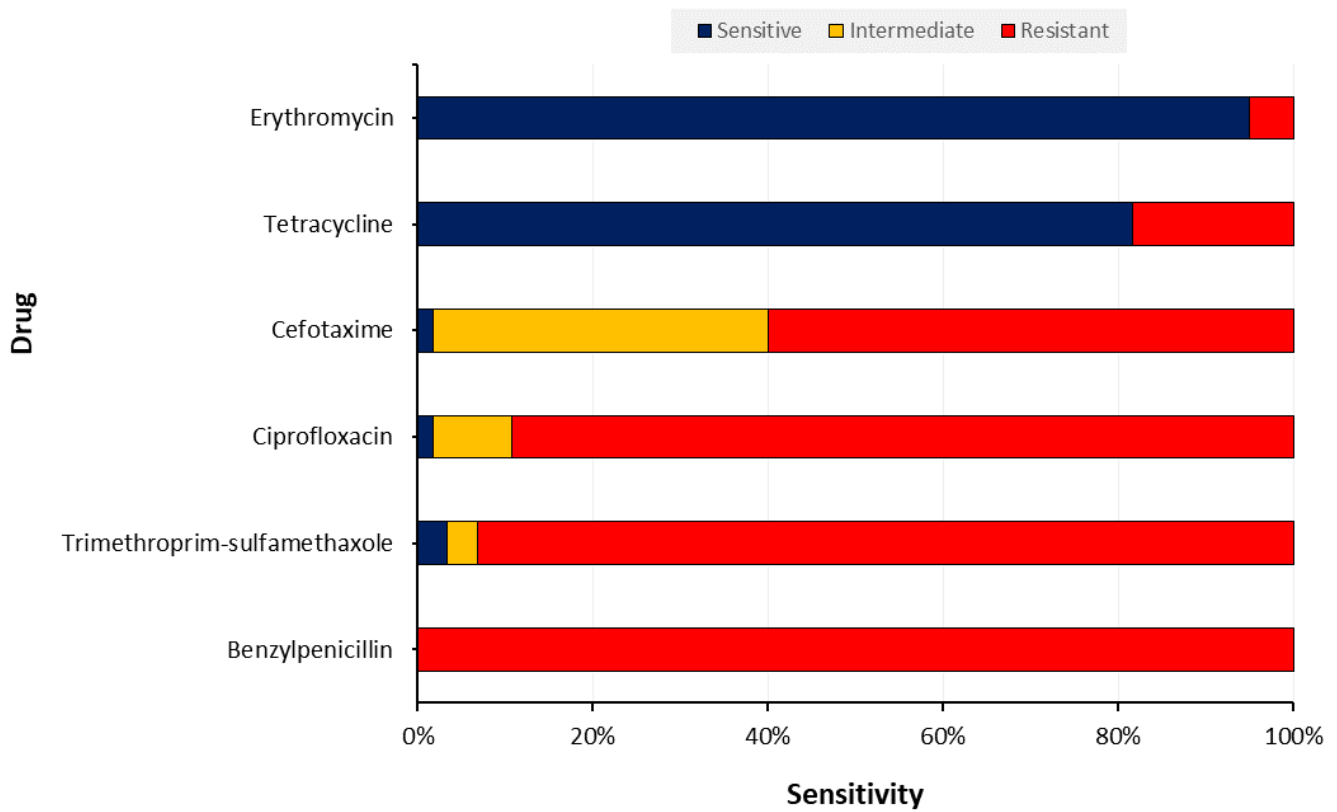
**Figure 3: Age distribution and vaccination status of confirmed diphtheria cases in Nigeria, May 2022 – July 2023**



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



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



**Figure 6: Drug sensitivity results of Toxigenic *Corynebacterium diphtheriae* isolated in Nigeria, May 2022 – July 2023 (n = 62)**