DIPHTHERIA SITUATION REPORT

Serial Number 01

Data as of Epi-week 03 2023



HIGHLIGHTS

- Background
 - NCDC was notified of suspected diphtheria outbreaks in Kano and Lagos states on 1st December 2022
 - In response to the notification, Rapid Response Teams (RRTs) were deployed to both states to confirm the outbreak and support response activities
 - Diphtheria outbreaks were confirmed in both States and NCDC has been supporting response activities in both States in responding

Outbreak Summary: Epi-week 01 – 03, 2023

- A total of 132 suspected cases were reported from two (2)
 States: Kano 130 (98.5%); Yobe 2 (1.5%)
- Of the suspected cases reported, 89 (67.4%) were confirmed (clinically compatible), 6 (4.5%) were discarded & 37 (28.0%) are pending classification
- Confirmed cases were all from 12 LGAs in Kano State
- Nine (9) deaths were recorded from all the confirmed cases (CFR: 10.1%).

Cumulatively: Epi-week 19 2022 – Epi-week 03 2023

- A total of 253 suspected cases were reported: Kano (169),
 Yobe (78), Lagos (5) and Osun (1) States
- Of the suspected cases reported, 111 (42.1%) were confirmed (8 lab confirmed & 103 clinically compatible), 18 (7.1%) were discarded, 40 (15.3%) are pending classification while 84 (33.2%) were unknown
- Majority (91.9%) of the confirmed cases occurred in those aged 2 14 years.
- A total of 22 deaths (CFR = 19.8%) were recorded among confirmed cases
- Only 12 (10.8%) out of 111 confirmed cases were fully vaccinated with a diphtheria toxin-containing vaccine

SITUATION UPDATES Wk 19 2022 – Wk 03 2023

TOTAL SUSPECTED CASES 253

Suspected Cases [wk 1-3 2023] 132

STATE WITH SUSPECTED CASES 4

New State with Suspected Cases [wk 1-3 2023] O

TOTAL CONFIRMED CASES 111

Confirmed Cases [wk 1-3 2023] **89**

STATE WITH CONFIRMED CASES 4

New State with Confirmed Cases [wk 1-3 2023] O

> TOTAL DEATHS AMONG CONFIRMED CASES (CFR) 22 (19.8%)

Deaths among Confirmed Cases [wk 1-3 2023] (CFR) **9 (10.1%)**

Description of diphtheria cases by states in Nigeria, epi-week 19 2022 - epi-week 03 2023

Description of Cases	Kano State	Lagos State	Osun State	Yobe State	National
# Suspected cases	169	5	1	78	253
 LGAs with suspected case(s) 	14	2	1	2	19
 # Sample collected (SCR) 	53 (31.4%)	5 (100.0%)	1 (100.0%)	9 (1.2%)	68 (26.9%)
# Cases with sample collected	53	5	1	9	68
 Culture positive samples 	23 (43.4%)	1 (20.0%)	1 (100.0%)	3 (33.0%)	28 (41.2%)
 Culture negative samples 	8 (15.1%)	4 (80.0%)	0	6 (66.7%)	18 (26.5%)
 Pending samples 	22 (41.5%)	0	0	0	22 (32.4%)
 Samples not tested 	0	0	0	0	0
# Isolates from positive culture	23	1	1	3	28
 Toxin production positive 	6 (26.1%)	1 (100.0%)	1 (100.0%)	0	8 (28.6%)
 Toxin production negative 	0	0	0	0	0
 Pending toxin test 	17 (73.9%)	0	0	1 (33.3%)	18 (64.3%)
 Toxin test not done 	0	0	0	2 (66.7%)	2 (7.1%)
# Suspected cases	169	5	1	78	253
# Confirmed cases	107 (63.3%)	1 (20.0%)	1 (100.0%)	2 (2.6%)	111 (42.1%)
 Lab confirmed (LC) 	6	1	1	0	8
 Epidemiologically linked (EL) 	0	0	0	0	0
 Clinically compatible (CC) 	101	0	0	2	103
# Discarded	8 (4.7%)	4 (80.0%)	0	6 (7.7%)	18 (7.1%)
# Pending	39 (23.1%)	0	0	1 (1.3%)	40 (15.3%)
# Unknown	15 (8.9%)	0	0	69 (88.5%)	84 (33.2%)
# Confirmed cases (LC+EL+CC)	107	1	1	2	111
 LGAs with confirmed case(s) 	13	1	1	1	16
 Death among confirmed case (CFR) 	21 (19.6%)	1 (100.0%)	0	0	22 (19.8%)

• 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

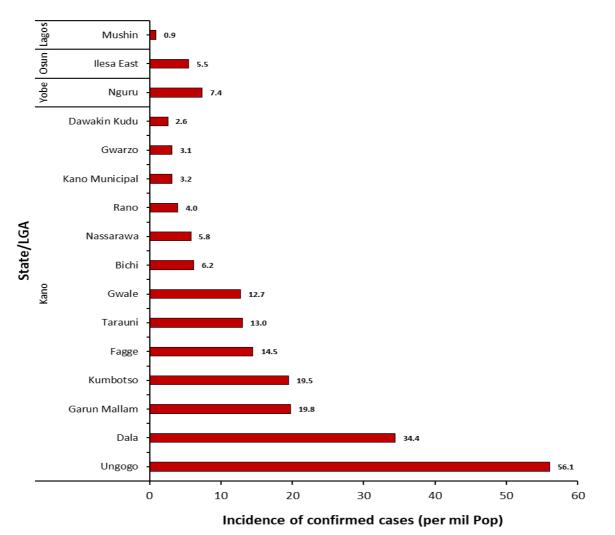


Figure 1: Incidence of confirmed diphtheria cases (LC+EL+CC) by LGA in Nigeria, epi-week 19 2022 – epi-week 03 2023

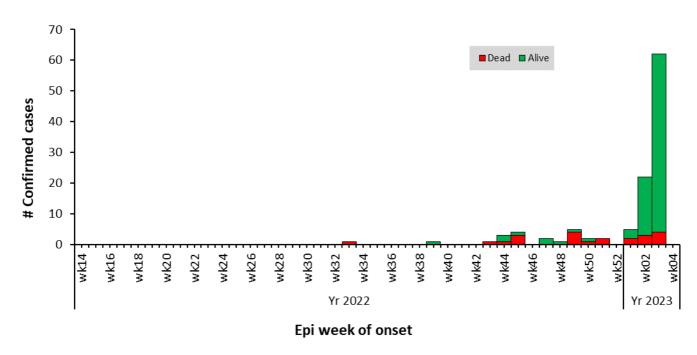


Figure 2: Epi-curve of confirmed diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 03 2023

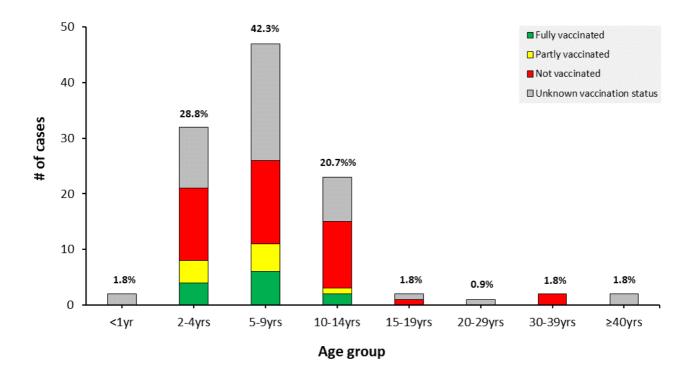


Figure 3: Age distribution and vaccination status of confirmed diphtheria cases (LC+EL+CC) in Nigeria, epi-week 19 2022 – epi-week 03 2023

