

DIPHTHERIA OUTBREAK IN THE PREFECTURE OF SIGUIRI IN GUINEA, APRIL 2023 TO 31 AUGUST 2024

P3-B1

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THE SPREAD OF THE DIPHTHERIA OUTBREAK IS ENCOURAGED BY DELAYS IN DETECTION AND FAILURE TO VACCINATE. CHILDREN AGED 0-14 AND THE URBAN COMMUNITY ARE MOST AT RISK. THE RESPONSE IS ONGOING.

BACKGROUND

- Diphtheria: contagious infectious disease due *C. diphtheriae*
- July 09, 2023 : Suspicion of diphtheria (5 cases)
- Samples sent to INSP Lab: 1/ 5 was positive
- Investigation objectives: Determine the extent of the epidemic and take control and prevention measures in Siguiiri, May 2024- 31 August 2024

METHODS

- **Study design and period**
 - Descriptive study
 - May 15, 2023 – 31 August date
- **At-risk population:** All Siguiiri
- **Cases definitions:**
 - **Suspected Case:** Any person presenting with dysphagia, fever, red, swollen tonsil, false pearly or greyish membrane, cervical ganglion, etc.
 - **Confirmed Case:** suspected cases confirmed by culture and PCR
- **Active research:** Health Facilities and in the Community
- **Data cleaning and analysis:** Epi info, Excel
 - Proportion, median
- **Lab procedure:**
 - Nasopharyngeal samples sent to 2 laboratories: INSP, CERFIG
 - Tests conducted : culture and PCR

RESULTS

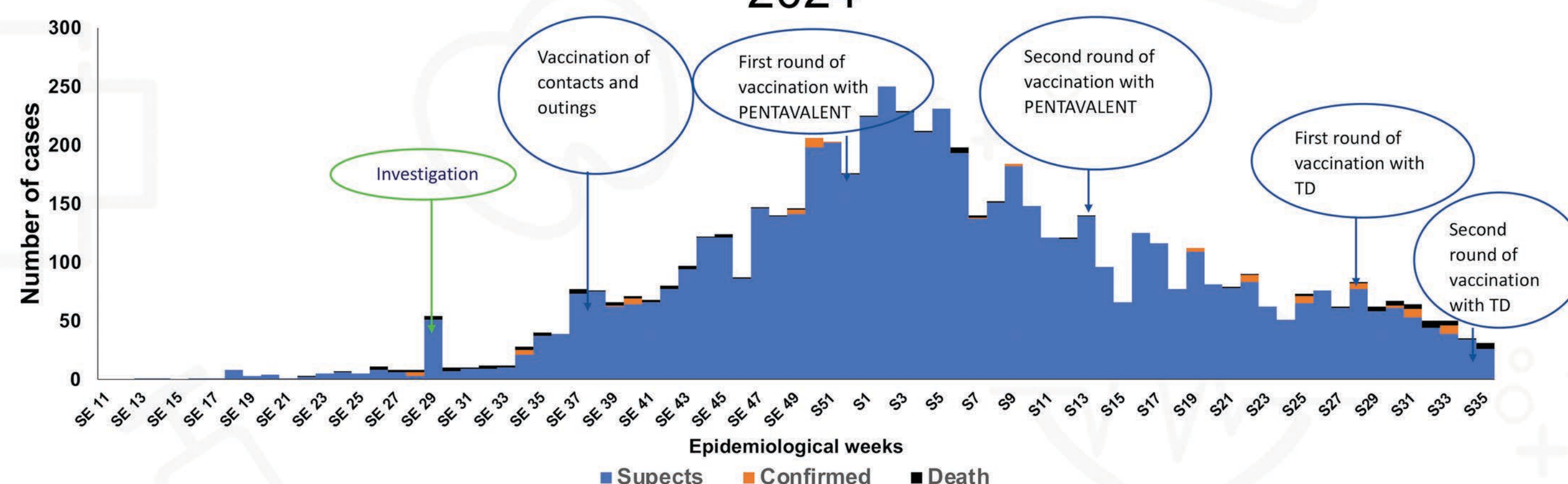
- As of August 31, 2024:
 - 5951 suspected cases of diphtheria had been identified,
 - 721 (12%) were tested and 65 (1%) laboratory-confirmed.

Tableau 1: Clinical characteristics of diphtheria cases, Siguiiri, May 2023-31 August 2024

Clinical characteristics	n(%)
Suspected Cases	5951
Laboratory confirmed case	65(1)
Confirmed case epidemiological link	105(2)
Compatible clinical case	5523(93)
No case	258(4)
Hospitalization	5862(99)
Death	119(2)

RESULTS CONTINUED

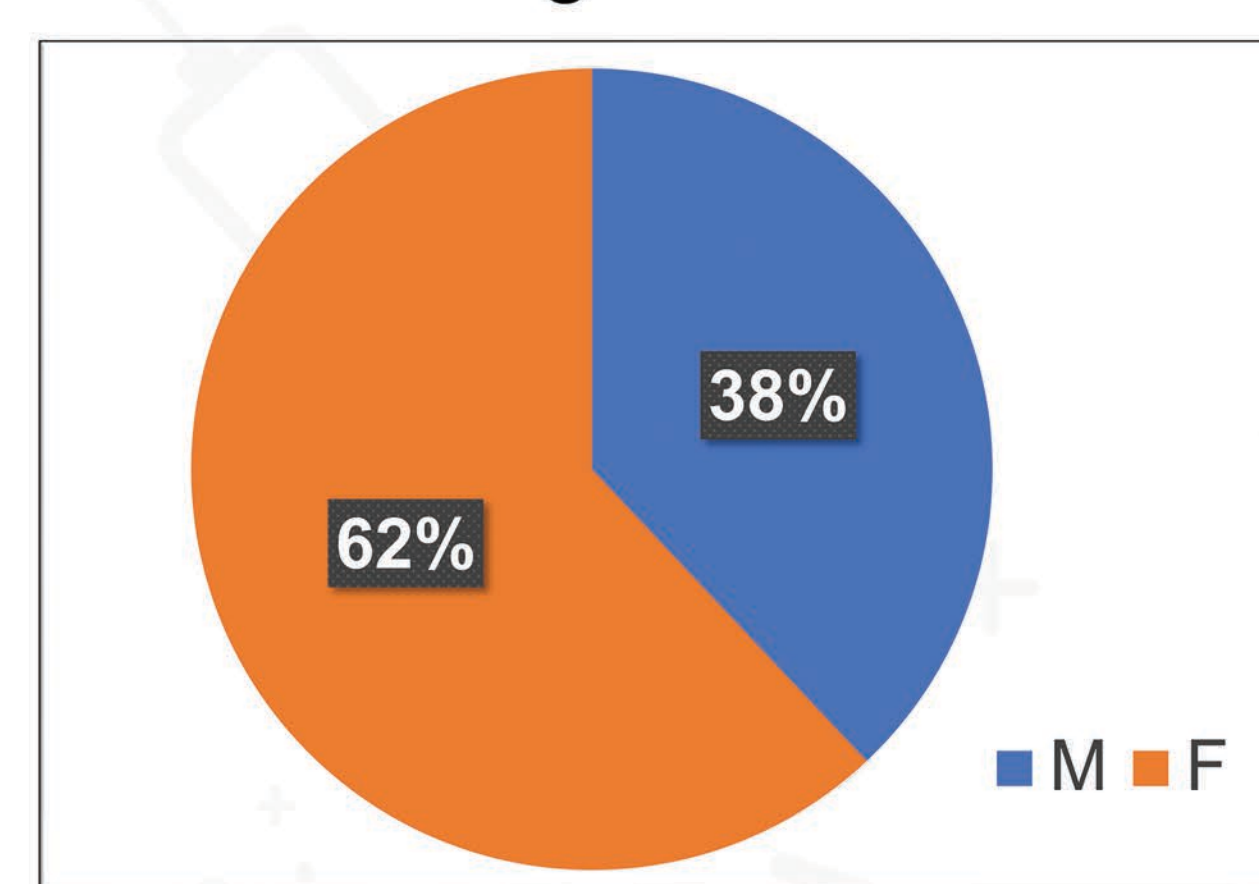
Epidemic curve of Diphtheria cases, Siguiiri, May 2023- 31 August, 2024



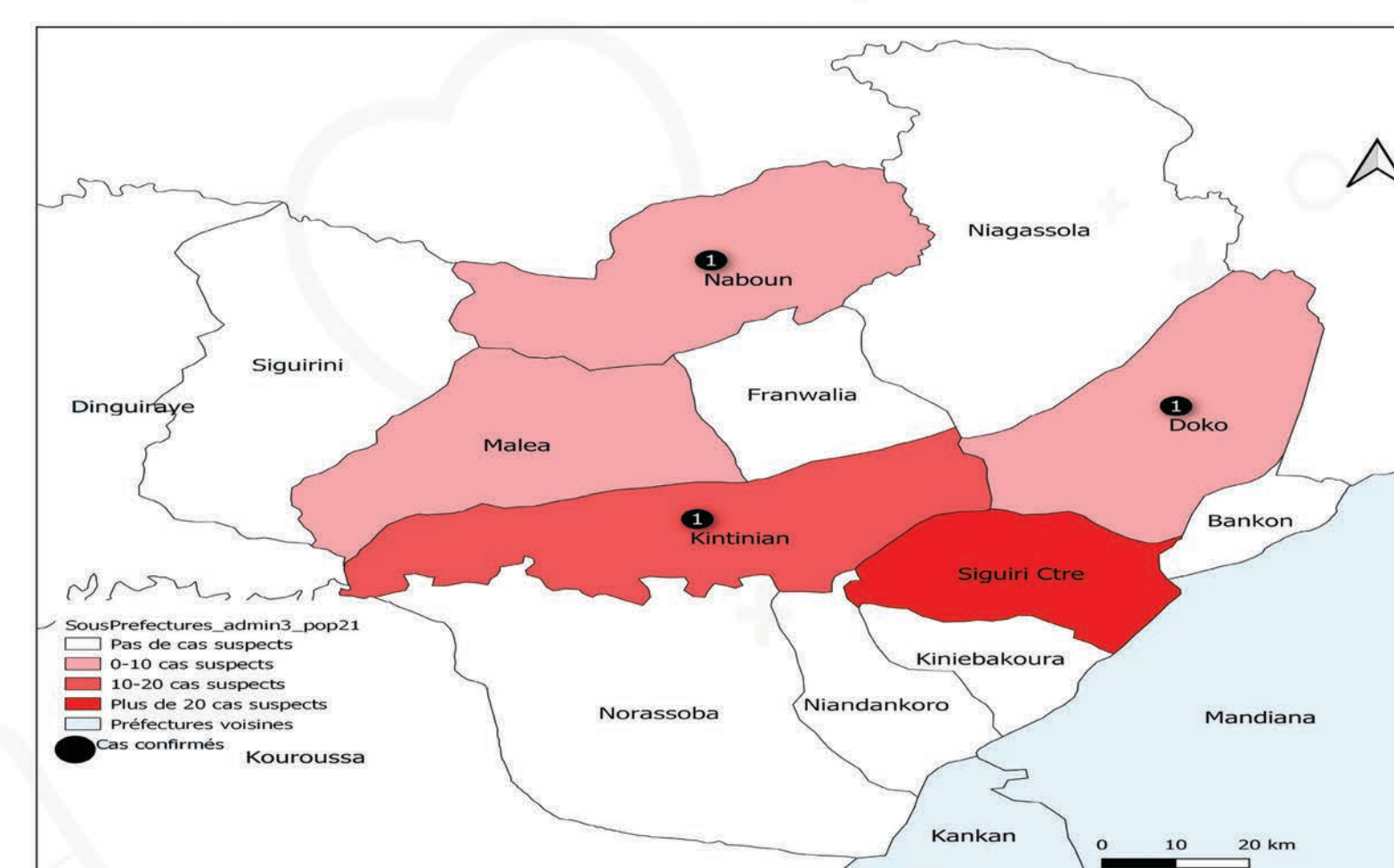
Attack rate and case fatality by age group of Diphtheria cases, Siguiiri, May 2023- 31 August 2024

Age range	Attack rate per 100,000	Lortality (%)
0 - 4 Yrs	488	6,61
5 - 9 Yrs	1070	2,69
10 - 14 Yrs	1093	2,25
≥15 Yrs	541	0,15

Distribution of cases by sex, Siguiiri, May 2023- 31 August 2024



Attack rate of Diphtheria cases by sub-prefecture, Siguiiri, May 2023- 31 August 2024



LIMITS

- Inappropriate sampling kit at the start.

CONCLUSIONS

- Large-scale epidemic in regression
- The 0-14 age group and urban areas were the most affected
- Higher case-fatality rate among 0–4-year-olds

ACTIONS TAKEN

- Setting up diphtheria control committees
- Four rounds of vaccination
- Cases Diphtheria case management and contacts

ADDITIONAL KEY INFORMATION

No conflicts of interest to declare

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