# MEASLES SITUATION REPORT

**Serial Number 12**

**Data as at December 31st 2021**

## HIGHLIGHTS

- **In December, 2021:**
  - Borno (121), Katsina (41), Plateau (37), Kwara (36), Oyo (34), Imo (30) & Jigawa (30) cases accounted for 55.0% of the 598 suspected cases reported in December
  - Of the 598 suspected cases reported, 163 (27.3%) were confirmed (44 lab confirmed & 119 clinically compatible), 127 (21.2%) were discarded and 308 (51.5%) are pending classification
  - A total of 33 LGAs across 13 states reported at least one confirmed case
  - Two deaths (CFR: 1.2%) were recorded among the confirmed cases
- **From January – December, 2021:**
  - Borno (7,857), Yobe (753) and Ekiti (604) States accounted for 58.4% of the 15,792 suspected cases reported
  - Of the suspected cases reported, 10,096 (63.9%) were confirmed (1,724 lab confirmed 2,734 epi-linked and 5,638 clinically compatible), 5,171 (32.7%) were discarded and 525 (3.3%) are pending classification
  - The age group 9 - 59 months accounted for 7,573 (75.0%) of all confirmed cases
  - A total of 109 deaths (CFR = 1.0%) were recorded among confirmed cases
  - Up to 8,295 (82.2%) of the confirmed cases did not received any dose of measles vaccination ("zero dose")
- **Measles outbreaks as at December 31st 2021:**
  - In December 2021, 9 LGAs across 7 states recorded an outbreak of measles (Akwa Ibom-2; Ogun-2; Lagos-1; Anambra-1; Oyo-1; Bauchi-1; Gombe-1)
  - Cummulatively, a total of 157 LGAs across 33 states and FCT have recorded at least one measles outbreak in the year 2021

## SITUATION UPDATES

**# Jan - Dec (# New in Dec)**

**SUSPECTED CASES**

**15,792 (598)**

States With Suspected Cases

36 + FCT (0)

LGAs with Suspected Cases

683 (12)

**CONFIRMED CASES**

**10,096 (163)**

States with Confirmed Cases

36 + FCT (0)

LGAs with Confirmed Cases

464 (5)

**DEATHS AMONG CONFIRMED CASES**

**109 (2)**

**MEASLES OUTBREAKS**

States with Measles Outbreaks

33 + FCT (1)

LGAs with Measles Outbreaks

157 (9)

## Table 1: Distribution of key measles surveillance variables by states, Jan – Dec, 2021

| States | # Suspected cases | # Confirmed cases (%) | Classification of confirmed cases | | | % of confirmed cases aged 9-59 months | % of confirmed cases that are "zero dose" |
|---|---|---|---|---|---|---|---|
| | | | Lab. confirmed | Epid. linked | Clin. Compatible | | |
| **NORTH** | **11,279** | **9,428 (83.6%)** | **1,113** | **2734** | **5581** | **77.3%** | **85.7%** |
| Adamawa | 149 | 73 (49.0%) | 38 | 0 | 35 | 49.3% | 37.0% |
| Bauchi | 214 | 73 (34.1%) | 70 | 0 | 3 | 45.2% | 61.6% |
| Benue | 55 | 25 (45.5%) | 21 | 0 | 4 | 32.0% | 92.0% |
| Borno | 7,857 | 7,663 (97.5%) | 142 | 2674 | 4847 | 83.1% | 87.9% |
| FCT | 43 | 23 (53.5%) | 20 | 0 | 3 | 39.1% | 95.7% |
| Gombe | 20 | 10 (50.0%) | 10 | 0 | 0 | 70.0% | 50.0% |
| Jigawa | 231 | 66 (28.6%) | 58 | 0 | 8 | 56.1% | 98.5% |
| Kaduna | 61 | 28 (45.9%) | 28 | 0 | 0 | 57.1% | 100.0% |
| Kano | 251 | 143 (57.0%) | 45 | 18 | 80 | 59.4% | 78.3% |
| Katsina | 380 | 174 (45.8%) | 159 | 0 | 15 | 54.0% | 97.7% |
| Kebbi | 249 | 101 (40.6%) | 96 | 0 | 5 | 40.6% | 85.1% |
| Kogi | 59 | 16 (27.1%) | 14 | 0 | 2 | 25.0% | 81.3% |
| Kwara | 245 | 89 (36.3%) | 77 | 0 | 12 | 59.6% | 87.6% |
| Nasarawa | 50 | 8 (16.0%) | 7 | 0 | 1 | 12.5% | 75.0% |
| Niger | 160 | 83 (51.9%) | 73 | 0 | 10 | 57.8% | 97.6% |
| Plateau | 114 | 21 (18.4%) | 19 | 0 | 2 | 38.1% | 52.4% |
| Sokoto | 120 | 46 (38.3%) | 43 | 0 | 3 | 54.3% | 97.8% |
| Taraba | 115 | 43 (37.4%) | 42 | 0 | 1 | 30.2% | 32.6% |
| Yobe | 753 | 647 (85.9%) | 59 | 42 | 546 | 51.2% | 64.0% |
| Zamfara | 153 | 96 (62.7%) | 92 | 0 | 4 | 72.9% | 100.0% |
| **SOUTH** | **4,513** | **668 (14.8%)** | **611** | **0** | **57** | **43.0%** | **32.2%** |
| Abia | 170 | 8 (4.7%) | 8 | 0 | 0 | 50.0% | 12.5% |
| Akwa Ibom | 146 | 23 (15.8%) | 22 | 0 | 1 | 69.6% | 65.2% |
| Anambra | 284 | 24 (8.5%) | 22 | 0 | 2 | 62.5% | 25.0% |
| Bayelsa | 221 | 51 (23.1%) | 48 | 0 | 3 | 51.0% | 27.5% |
| Cross River | 99 | 16 (16.2%) | 15 | 0 | 1 | 50.0% | 37.5% |
| Delta | 143 | 28 (19.6%) | 28 | 0 | 0 | 67.9% | 60.7% |
| Ebonyi | 179 | 28 (15.6%) | 26 | 0 | 2 | 35.7% | 28.6% |
| Edo | 105 | 25 (23.8%) | 24 | 0 | 1 | 20.0% | 48.0% |
| Ekiti | 604 | 49 (8.1%) | 41 | 0 | 8 | 10.2% | 28.6% |
| Enugu | 224 | 51 (22.8%) | 51 | 0 | 0 | 45.1% | 27.5% |
| Imo | 234 | 22 (9.4%) | 22 | 0 | 0 | 54.5% | 31.8% |
| Lagos | 330 | 35 (10.6%) | 30 | 0 | 5 | 71.4% | 22.9% |
| Ogun | 365 | 80 (21.9%) | 75 | 0 | 5 | 41.3% | 20.0% |
| Ondo | 331 | 41 (12.4%) | 35 | 0 | 6 | 41.5% | 24.4% |
| Osun | 337 | 28 (8.3%) | 22 | 0 | 6 | 39.3% | 14.3% |
| Oyo | 557 | 119 (21.4%) | 107 | 0 | 12 | 43.7% | 32.8% |
| Rivers | 184 | 40 (21.7%) | 35 | 0 | 5 | 15.0% | 60.0% |
| **TOTAL** | **15,792** | **10,096 (63.9%)** | **1,724** | **2,734** | **5,638** | **75.0%** | **82.2%** |

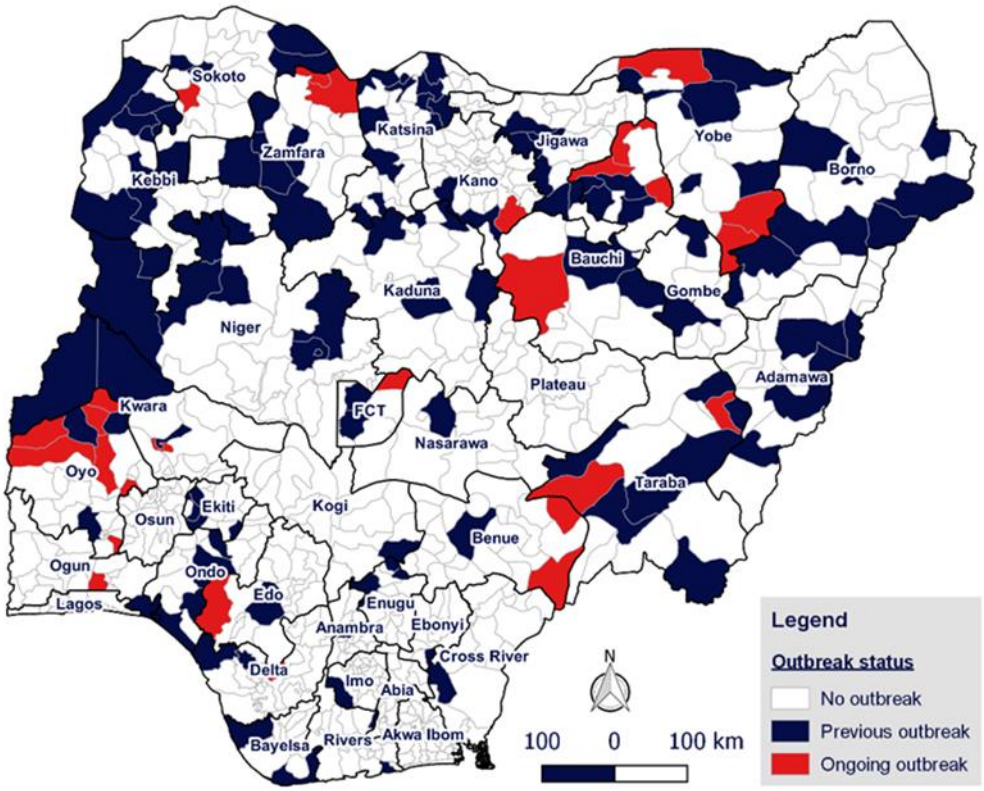


**Figure 1: Distribution of LGAs with ongoing measles outbreak in Nigeria, Jan – Dec, 2021**

**Table 2: Summary of key measles surveillance variables, Jan - Dec, 2019 – 2021**

| **Description of Cases** (*source: case-based data*) | **2019 (Jan - Dec)** | **2020 (Jan - Dec)** | **2021 (Jan - Dec)** |
|---|---|---|---|
| **# of suspected measles cases** | **37,221** | **14,956** | **15,792** |
| • Number of LGAs with at least 1 suspected case | 751 | 730 | 683 |
| • Number of states with at least 1 suspected case | 36 + FCT | 36 + FCT | 36 + FCT |
| **# of suspected measles cases with blood collected** | **13,176** | **8,476** | **7,565** |
| • Number of lab confirmed (IgM+) | 3,214 (24.4%) | 2,645 (31.2%) | 1,724 (22.8%) |
| • Number of IgM- (Negative) | 9,566 (72.6%) | 5,278 (62.3%) | 5,171 (68.4%) |
| • Number of IgM indeterminate | 283 (2.2%) | 120 (1.4%) | 144 (1.9%) |
| • Number of samples not tested (not done) | 113 (0.9%) | 8 (0.1%) | 1 (0.1%) |
| • Number of pending samples | 0 | 425 (5.0%) | 525 (6.9%) |
| **# of confirmed measles cases** | **28,177** | **9,520** | **10,096** |
| • Number of laboratory confirmed (IgM+) | 3,214 (11.3%) | 2,645 (27.8%) | 1,724 (17.1%) |
| • Number of epidemiologically linked | 13,872 (48.8%) | 1,535 (16.1%) | 2,734 (27.1%) |
| • Number of clinically compatible | 11,354 (39.9%) | 5,340 (56.1%) | 5,638 (55.8%) |
| # of LGAs with at least 1 confirmed case | 655 | 608 | 464 |
| # of states with at least 1 confirmed case | 36 + FCT | 36 + FCT | 36 + FCT |
| # of deaths among confirmed cases (CFR) | 152 (0.5%) | 55 (0.6) | 109 (1.0%) |
| **# of measles outbreak** *(source: lab data)* | | | |
| • # of LGAs with measles outbreak | - | 228 | 157 |
| • # of states with at least 1 LGA with measles outbreak | - | 33 +FCT | 33+ FCT |

**Table 3: Trend of measles surveillance performance indicators, Jan – Dec, 2019 – 2021**

| Surveillance Performance Indicator | Target | 2019 (Jan – Dec) | 2020 (Jan – Dec) | 2021 (Jan – Dec) |
|---|---|---|---|---|
| Annualized measles incidence | < 1/million population | 133.5 | 43.7 | 44.9 |
| Annualized non-measles febrile rash illness (NMFRI) rate | ≥ 2/100,000 population | 4.5 | 2.4 | 2.3 |
| Proportion of reported measles cases from whom blood specimen was collected | ≥ 80% | 56.4% | 63.2% | 57.9% |
| Proportion of LGAs that reported at least 1 measles case with blood specimen collected | ≥ 80% | 93.7% | 90.4% | 87.7% |
| Annualized rate of investigation (with blood specimens) of suspected measles cases | > 1/100,000 population | 6.2 | 3.9 | 3.4 |
| Proportion of lab confirmed measles cases | < 10% | 24.6% | 32.9% | 24.5% |
| Proportion of serum specimens arriving measles laboratory in good condition | ≥ 90% | 98.1% | 86.9% | 88.2% |

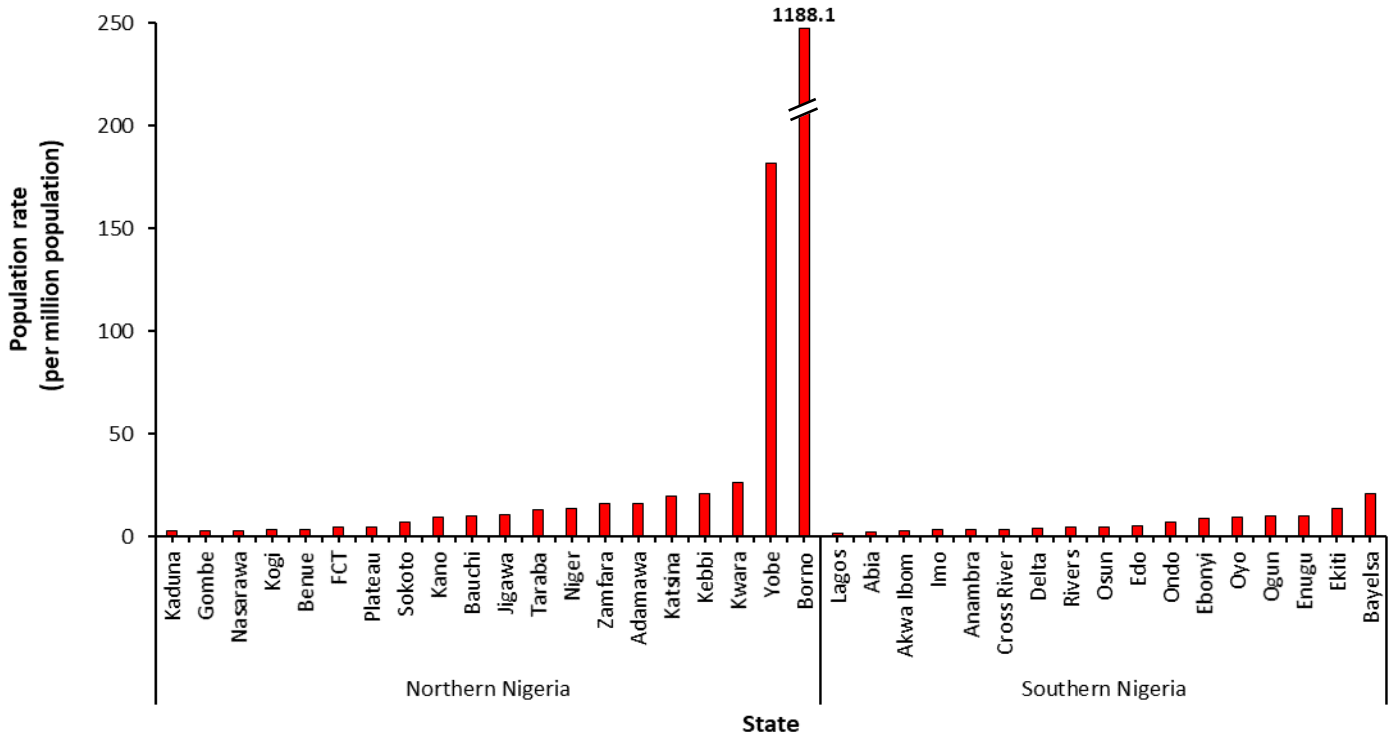


**Figure 2: Annualized population rate of confirmed measles cases in Nigeria (North and South), Jan – Dec, 2021**

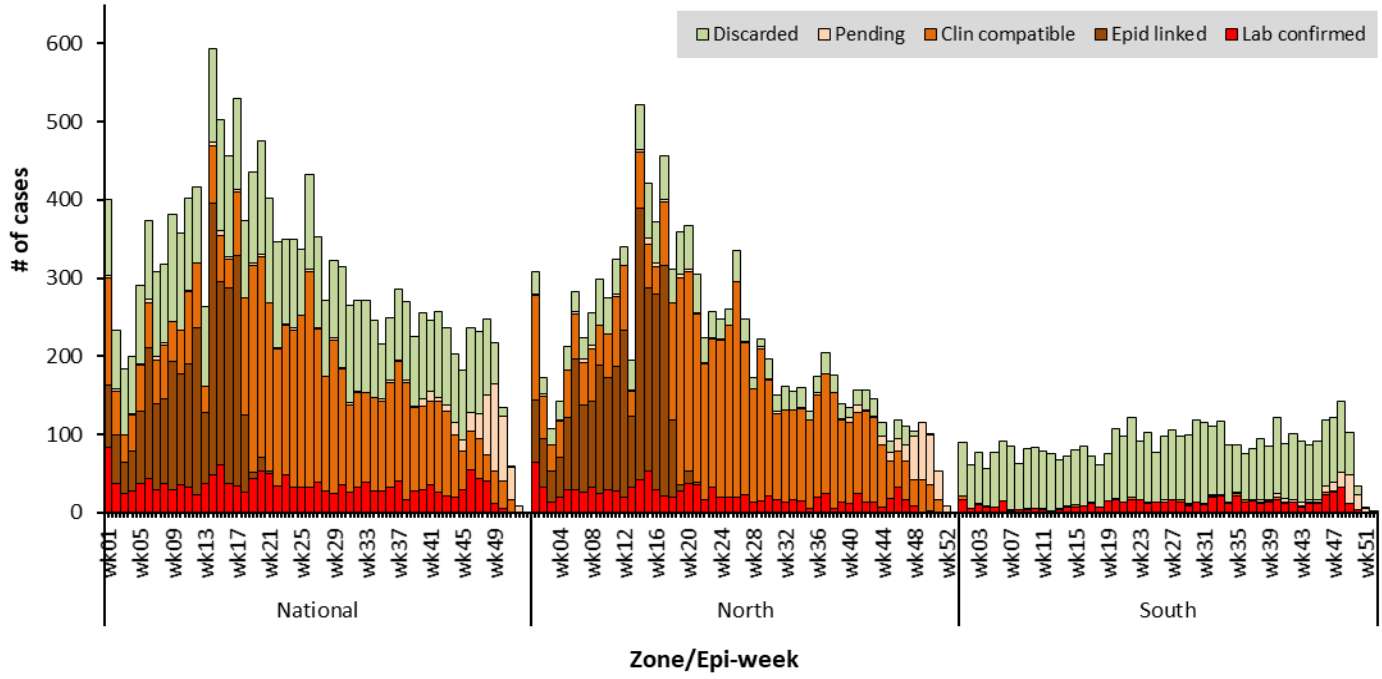


**Figure 3: Epi-curve of confirmed measles cases in Nigeria (North and South), epi-week 01 - 52, 2021**

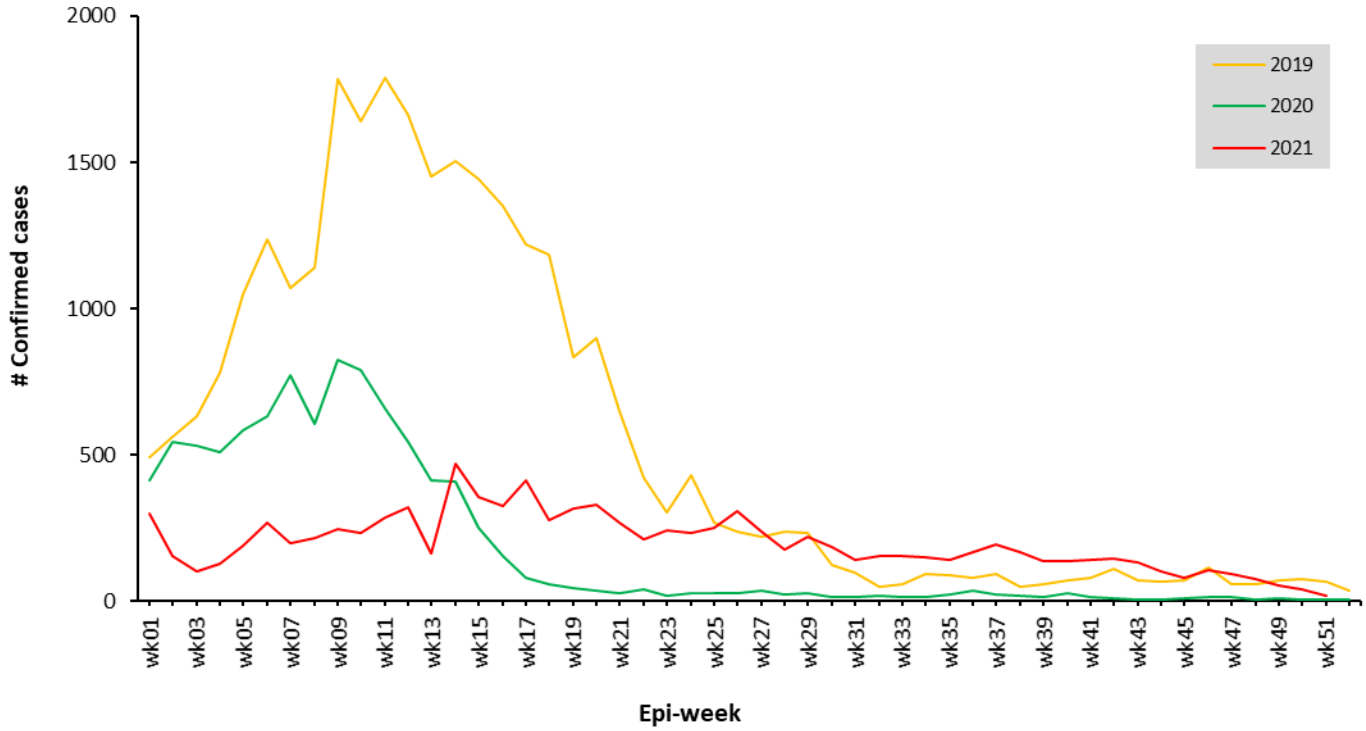


**Figure 4: Trend of confirmed measles cases in Nigeria, 2019 – 2021 (epi-week 01 – 52)**

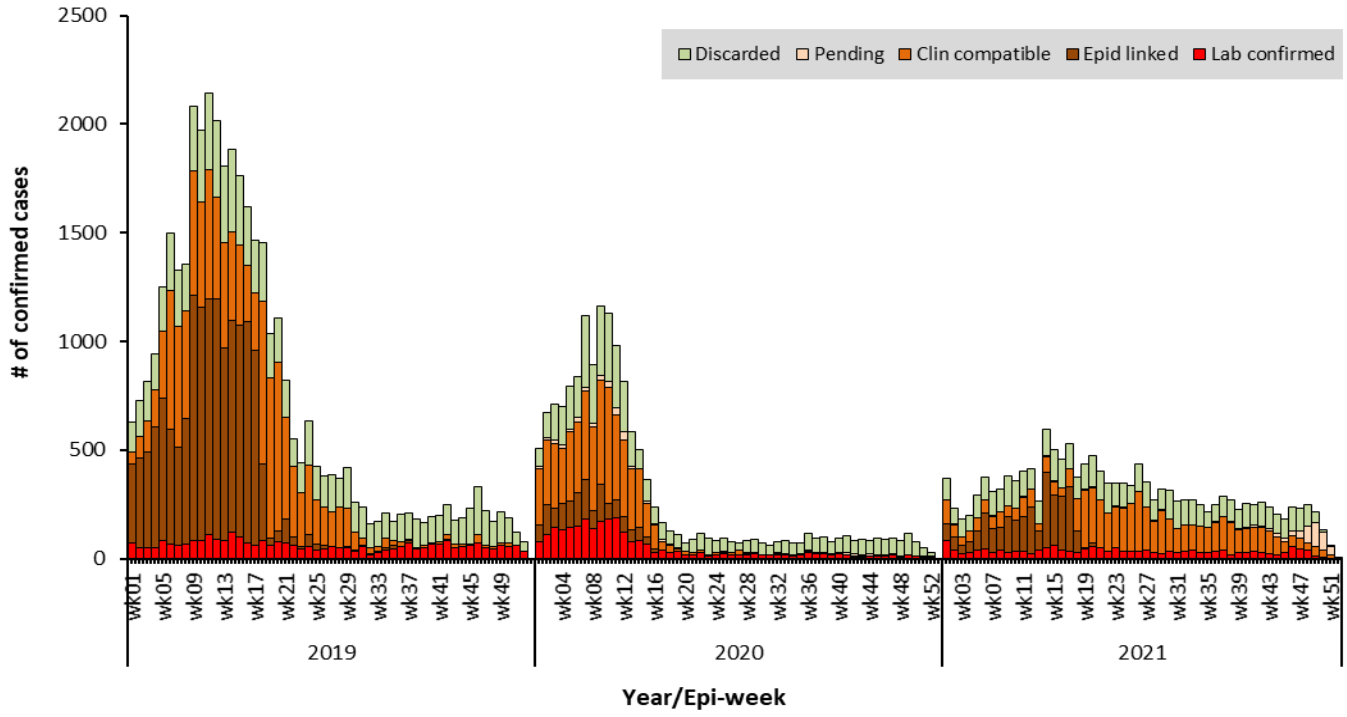


**Figure 5: Epi-curve of confirmed measles cases in Nigeria, 2019 – 2021 (epi-week 01 – 52)**

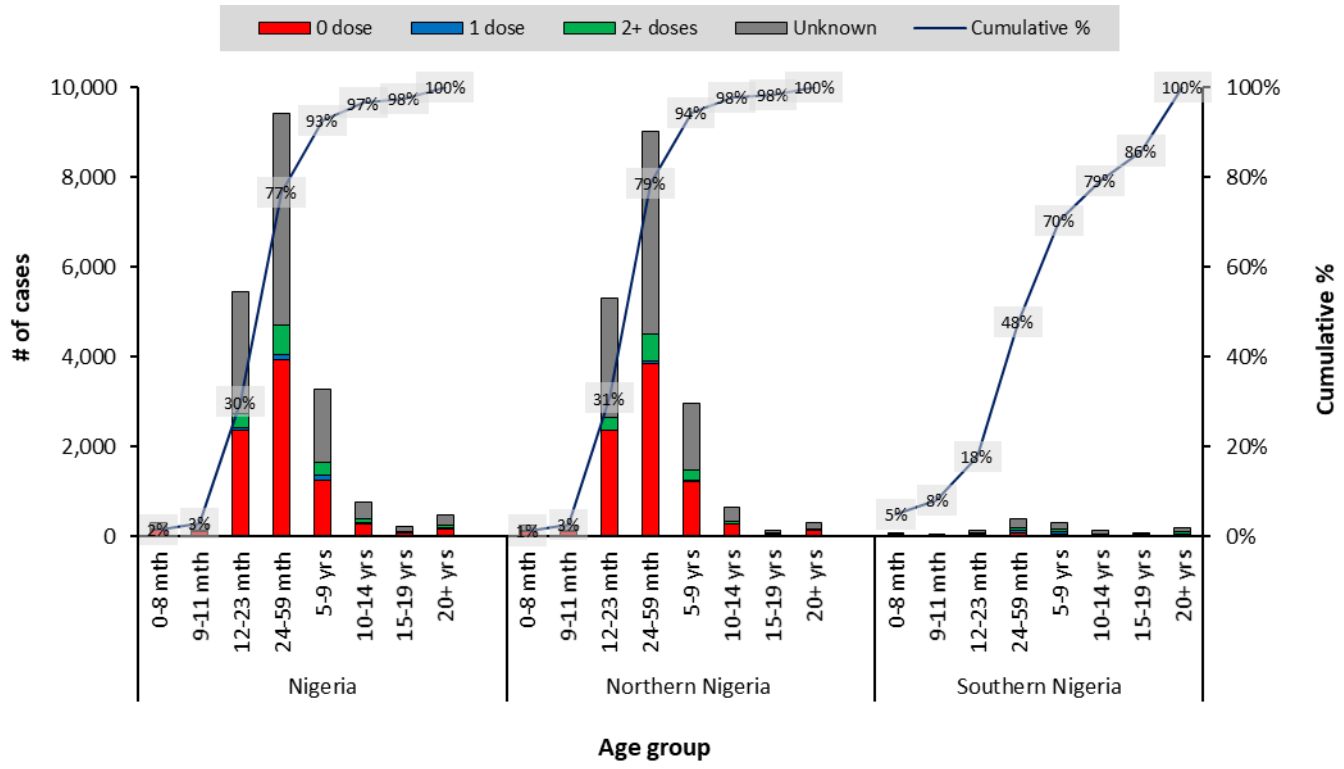


**Figure 6: Vaccination status and age distribution confirmed measles cases in Nigeria, Jan – Dec, 2021**

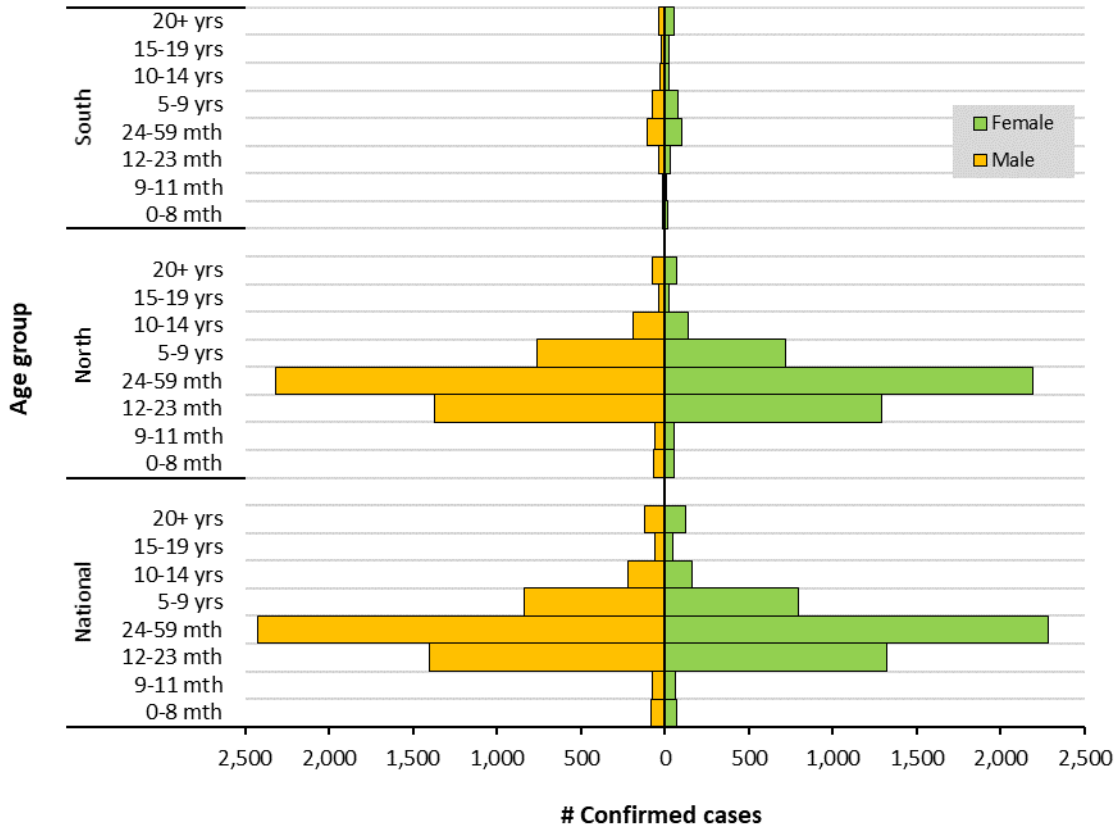


**Figure 7: Age-sex distribution of confirmed measles cases in Nigeria (North and South), Jan – Dec, 2021**

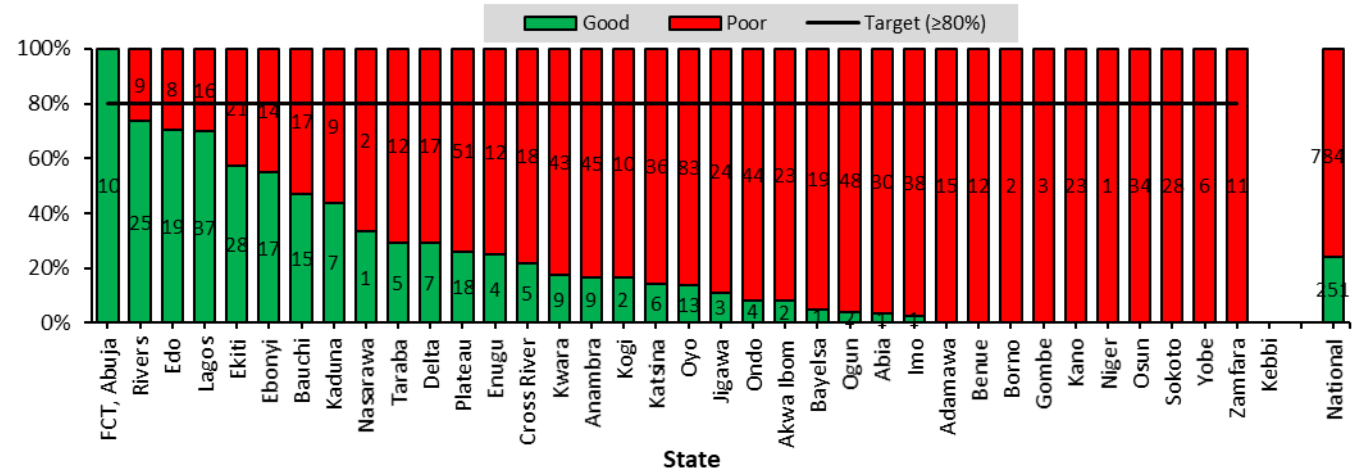


**Figure 8: Proportion of measles samples reaching the laboratory in good time, December 2021**

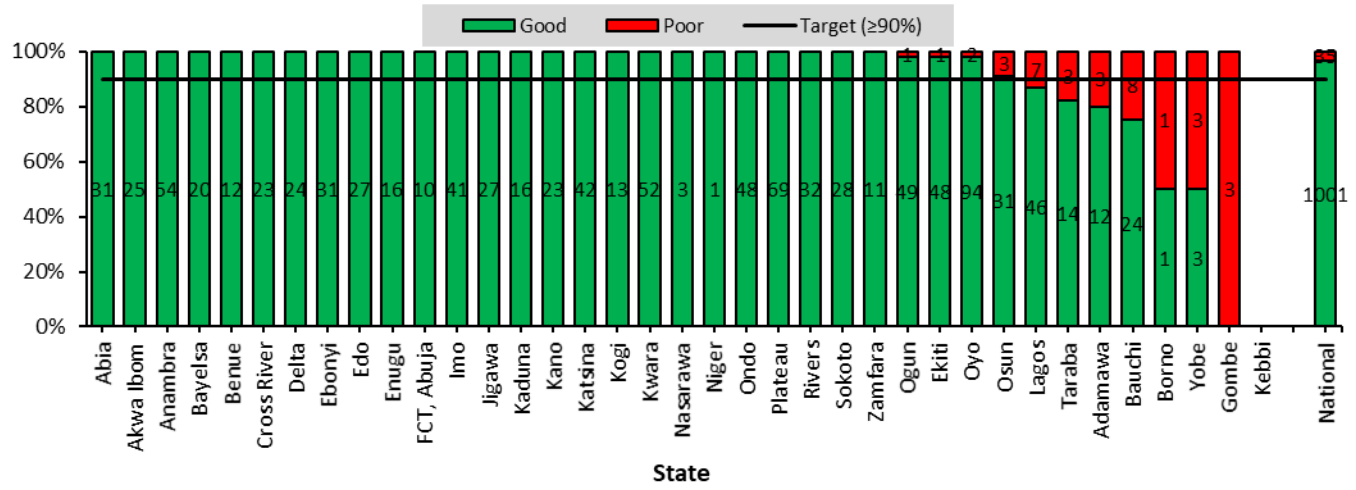


**Figure 9: Proportion of measles samples reaching the laboratory in good condition, December 2021**

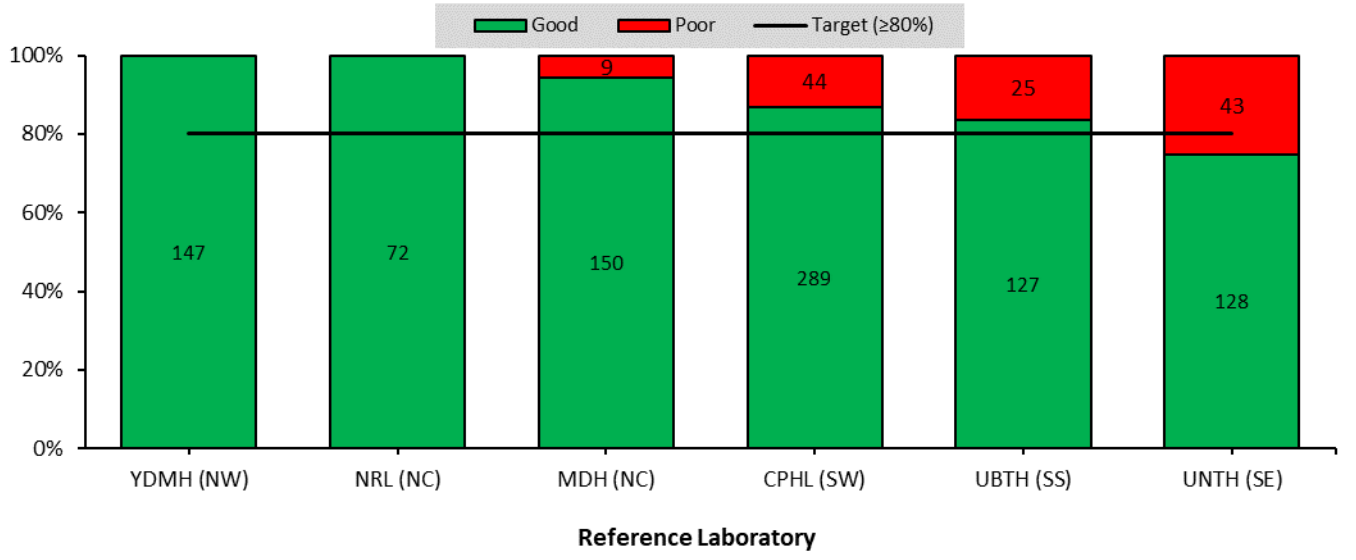


**Figure 10: Proportion of measles samples with good turnaround time, December 2021**