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Cerebrospinal Meningitis Situation Report

REPORT 12

Epidemiological week 48 - 52: (27 November to 31 December 2023)

Key Points

Table 1:Summary of current week (52), cumulative Epi week 48 – 52 (2023/2024 Season)

Reporting Period	Suspected cases	Confirmed cases	Deaths (Suspected cases)	Case Fatality Ratio (CFR)	States and LGAs affected
Current week (Week 52)	5	10	1	20.0%	State(s): 1 LGA(s): 2
Cumulative (Epi week 40 - 52 in 2023/2024)	115	12	16	13.45%	State(s): 15 LGA(s): 36

Table 2: Weekly trend of CSF collection & confirmed cases from week 48 - 52, 2023/2024

Epi-	Suspected	Sample	Confirmed	Confirmed CSF			Serotype		
Week	Cases	Collection	Cases	Collection Rate %	NmC	NmW	NmX	Spn	HiB
48	9	1	0	0.00	0	0	0	0	0
49	29	5	2	40.00	2	0	0	0	0
50	17	11	5	45.45	4	0	0	1	0
51	17	6	3	0.00	4	0	0	0	0
52	5	0	0	0.00	0	0	0	0	0
Total	77	23	10	43.48	10	0	0	1	0

Epi- Week	Suspected	Sample Collection	Confirmed	CSF Collection			Serotype		
week	Cases	Collection	Cases	Rate %	NmC	NmW	NmX	Spn	HiB
35	1	0	0	0.00	0	0	0	0	0
36	2	1	0	50.00	0	0	0	0	0
37	8	4	0	50.00	0	0	0	0	0
38	5	1	0	20.00	0	0	0	0	0

C	Cerebrospinal Meningitis Situation Report								Epi Wee	ek: 52 20	23
	39	2	0	0	0.00	0	0	0	0	0	

Highlights

- From the beginning of Epi week 40 of 2023 to Epi week 52, 2023 the following fifteen (15) states reported suspected CSM cases: Bayelsa, Borno, Delta, Ebonyi, Edo, Jigawa, Kaduna, Kano, Katsina, Kebbi, Kwara, Niger, Osun, Oyo, and Plateau
 - Reporting week 52 (5),
 - ➢ 5 suspected CSM cases were reported from two states (Katsina − 5) from 2 LGAs
 - One (1) death recorded
 - > No LGA crossed the alert threshold
 - > No LGA crossed the epidemic threshold
 - National multi-sectoral Cerebrospinal Meningitis TWG continues to monitor response across states.

In the reporting month

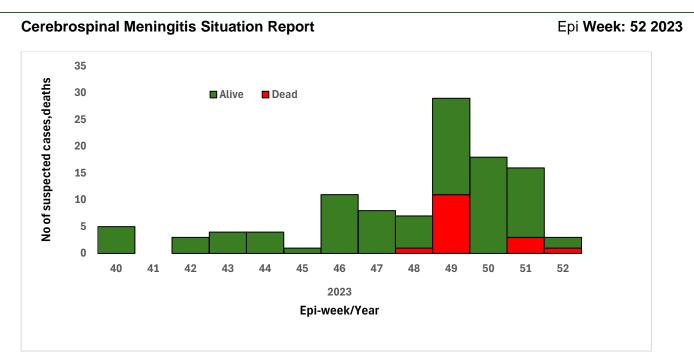
- 11 States have reported 77 suspected cases of CSM, Jigawa (45), Katsina (12), Oyo (6), Kebbi (5), Kano (3), Kaduna (2), Kwara, Niger, Osun and Edo reporting (1) case each
- 16 Deaths were recorded with CFR = 20.7%
- 23 PCR tests were conducted and 11 tested positive with serotype (10 NmC and 1 Spn) from Jigawa and Katsina
- 2 LGAs in one state have crossed the alert threshold (Jigawa Gumel and Gagrawa)
- 1 LGA in one state have crossed the epidemic threshold (Jigawa Sule Tankarkar)

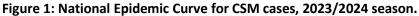
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	40) - 52	
Summary	2022/2023 Season	2023/2024 Season	% Change
Suspected Cases	154	115	-25.30
Deaths	30	16	-84.00
CFR%	19.48	13.91	-86.09

Table 3: comparison of cumulative cases 2022/2023 & 2023/2024 seasons

Cumulative Epi-Summary

- As of **31**st December 2023,
 - A total of 115 suspected cases including 16 death (CFR 13.9%) have been reported from 15 states in this 2023/2024CSM season,
 - A total of 37 samples collected (32.17%) from 115 suspected cases from beginning of the outbreak, and 12 confirmed (32% positivity rate)
 - > The 5 -14-year-old age group was the most affected,
 - > 53% of the total suspected cases were Males.
 - 82% of all suspected cases were from five (5) states Jigawa (53 cases), katsina (21 cases), Oyo (15 cases) and Kano (5 cases).
 - Eighteen LGAs across four states, Jigawa (11), Katsina (4), Oyo (2) and Kebbi (1), reported more than two suspected cases each this 2023/2024 CSM season.





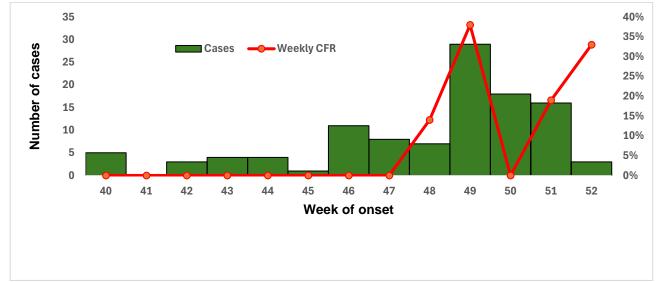


Figure 2: Trend in Case Fatality Ratio (CFR), Epi weeks 40 – 52, 2023/2024 season.

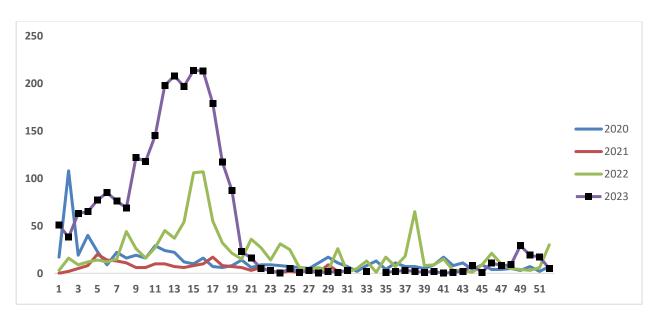


Figure 3: Weekly epidemiological trend of CSM cases nationwide from 2020 to 2023

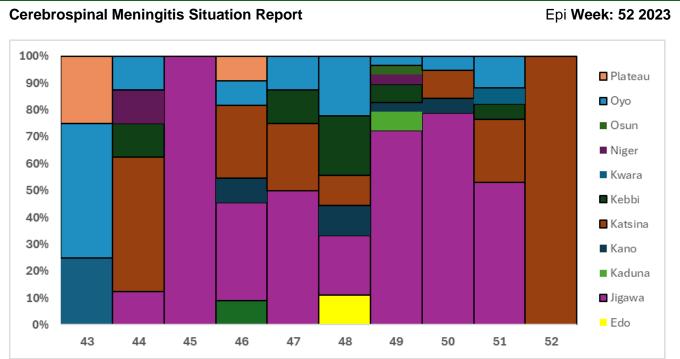


Figure 4: Percentage contribution of weekly cases by state from Epi-week 43 - 52, 2023 (past 9 weeks)

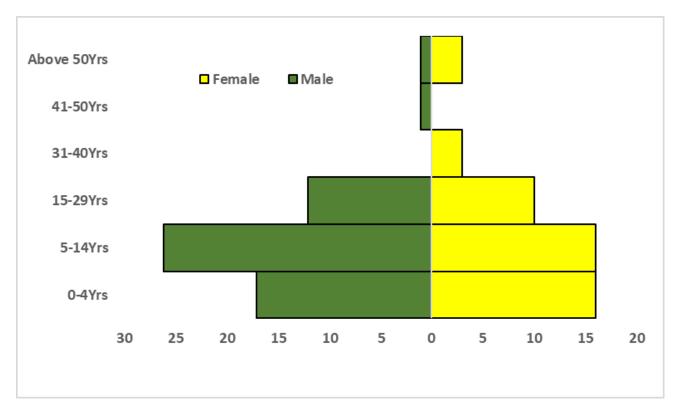




Figure 6. Map of Nigeria showing states with confirmed positive cases and deaths, week 40, 2022 - 52, 2023

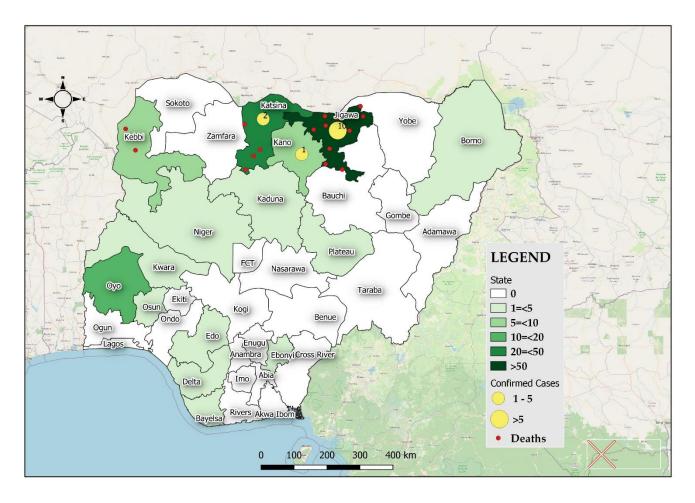


Table 4. Reporting Status for Weekly & Cumulative number of CSM Cases, for 2023/2024 season

		Current week: (Week 52, 2023)													Cum	nulative (Week 4	0 - Week 52, 20	123)				
		Cases							Cases													
s	ates		Trend of		Number of				Convelo	Confirrmation					Sample	Confirrmation		Serotype				
		Suspected		Number of LGAs on alert	LGAs with	Deaths	CFR%	sample collection	Sample collection	PCR% Positive	Suspected	Deaths		Sample	collection	PCR% Positive			Jeio	type		
			status		epidemic				Rate %	- cast - caller			CFR %	Collection	Rate %	, cast residue	NmA	NmC	NmW	NmX	Spn	Hib
1	Bayelsa										1	0	0.00	0	0.00	0(0.0%)	0	0	0	0	0	0
2	Borno										1	0	0.00	1	100.00	0(0.0%)	0	0	0	0	0	0
3	Delta										1	0	0.00	0	0.00	0(0.0%)	0	0	0	0	0	0
4	Ebonyi										1	0	0.00	0	0.00	0(0.0%)	0	0	0	0	0	0
5	Edo										1	0	0.00	0	0.00	0(0.0%)	0	0	0	0	0	0
6	Jigawa										53	10	18.87	20	37.74	10(50.0%)	0	9	0	0	1	0
7	Kaduna										2	0	0.00	2	100.00	0(0.0%)	0	0	0	0	0	0
8	Kano										5	0	0.00	1	20.00	1(100%)	0	0	0	0	0	0
9	Katsina	5	0	0	0	1	20.00	0.00	0	0	21	4	19.05	3	14.29	2(66.7%)	0	2	0	0	0	0
10	Kebbi										8	2	25.00	1	12.50	0(0.0%)	0	0	0	0	0	0
11	Kwara										1	0	0.00	0	0.00	0(0.0%)	0	0	0	0	0	0
12	Niger										2	0	0.00	0	0.00	0(0.0%)	0	0	0	0	0	0
13	Osun										1	0	0.00	1	100.00	0(0.0%)	0	0	0	0	0	0
14	Оуо										15	0	0.00	8	53.33	0(0.0%)	0	0	0	0	0	0
15	Plateau										2	0	0.00	0	0.00	0(0.0%)	0	0	0	0	0	0
	Total	5	0	0	0	1	20	0	0	0(0.0%)	115	16	13.91	37	32.17	12(32.4%)	0	11	0	0	1	0

Table 5: Response activities

Pillar	Activities to date	Next steps
Coordination	 The National multi-sectoral TWG 	 Continue response coordination by the
	hosted at NCDC, is coordinating	TWG.
		Continue sub-national level preparedness
	response activities in collaboration	and response support.
	with Federal Ministry of Health	 Continue ongoing onsite and offsite
		support to high burden States

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	(FMOH), National Primary Health Care Development Agency (NPHCDA), NIMET and development partners.	 Ongoing efforts at addressing challenges encountered during the last epidemic phase as the new season sets in
Surveillance	 Ongoing surveillance in all states through routine Integrated Disease Surveillance and Response (IDSR) and Event- Based Surveillance (EBS) Providing offsite/onsite support to states and follow up for daily reporting and progress with response activities 	 Continue data collation and harmonisation. Enhanced surveillance (active case search and contact tracing) in affected states and LGAs, Deployment of SORMAS application to secondary and tertiary HFs.
Case Management & IPC	 Provision of technical support and response commodities to affected states, Management of suspected/confirmed cases at designated treatment centres across the states. 	 Continue providing technical support on case management and IPC to states Planned training of Health Care Workers (HCW) on management of CSM and LP procedures Continuous follow up with states for updates and support
Laboratory	 CSM culture testing across state- level laboratories Sample shipment of aliquots samples to PCR NCDC National Reference Laboratory (NRL) and CPHL Yaba-Lagos for molecular diagnosis (PCR) 	 Continue to support ongoing CSM culture testing across state-level laboratories Continue shipment of aliquots samples to PCR NCDC National Reference Laboratory (NRL) and CPHL Yaba-Lagos for molecular diagnosis (PCR) Regular feedback on Laboratory surveillance
Logistics	 Distribution of essential response commodities to all CSM affected states 	 Continue supporting affected states with essential response commodities
Vaccination (led by NPHCDA)	 Monitoring of epidemiological trend to guide plans for reactive vaccination campaigns, Implementation of CSM reactive vaccination campaign in high burden LGAs/Wards in Jigawa state led by NPHCDA 	 Continue monitoring epidemiological trend to guide plans for vaccination campaigns Continue planning for CSM preventive and reactive vaccination campaigns in high burden LGAs/Wards in Jigawa state and other States
Risk communication	 Implementation of targeted risk communication activities across high-risk states CSM jingles are being aired in English and local languages in all affected states Community social mobilisation, media interviews, distribution of 	 Continue airing of CSM jingles and distribution of Information, Education and Communication (IEC) materials. Continue media engagement meetings and training of journalists, other media professionals Continued follow-up with states for update on risk communication

	 IEC materials and awareness campaigns ongoing in affected communities CSM advisory developed and circulated across high- risk states. 	
State Response	Multi-sectoral State-level Emergency Operation Centres (EOCs) was activated in Jigawa and Yobe and ICC also in operation in Katsina, Bauchi and Gombe states	Continue supporting state response activities and implementation of CSM IAP for ownership and sustainability

Challenges

- Inadequate trained personnel in states for case management (i.e., LP procedures)
- Poor and inconsistent reporting from states
- Poor health seeking behaviour due to (Poor terrain, high cost of transportation to the treatment centres hard-to-reach communities)
- Poor personal and community hygiene promotion

Next Steps

- Maintain communication with and support to states for data reporting and response
- Continue advocacy to State Governments to fund CSM IAP for ownership and sustainability
- Continue distributing response commodities across states
- Build capacity for sample collection, transportation, laboratory diagnosis and data management.
- Scale up risk communications.

Notes on the report

Data Source

Information for this disease was from routine case-based data and outbreak line-lists retrieved by the National CSM Technical Working Group

Case definitions

Suspected case: Any person with a sudden onset of fever (>38.5C rectal or 38.0C axillary) and one of the following meningeal signs: neck stiffness, altered consciousness or other meningeal signs like Kernings, Bruzinski, nuchal rigidity, raised intracranial pressure including bulging fontanelle in toddlers.

In infants: Any toddler with sudden onset of fever (>38.5 C rectal or 38.0 C axillary) and one of the following signs: neck stiffness, or flaccid neck, bulging fontanelle, convulsion, or other meningeal signs.

Probable meningitis case: Any suspected case with cerebrospinal fluid (CSF) turbid, cloudy, or purulent on visual inspection; or with a CSF leukocyte count >10 cells/mm3 on doing a cell count or with bacteria identified by Gram Stain of CSF.

Confirmed case: A suspected case that is laboratory-confirmed (positive IgM antibody, PCR or virus isolation) or epidemiologically linked to a laboratory-confirmed case

ALERT THRESHOLD	DEFINITION
Populations 30,000 – 100,000	Attack Rate of 3 suspected cases per 100,000 Inhabitants in one week
Populations < 30,000	2 suspected cases in one week OR Increase in number of cases compared to previous Non-epidemic years
EPIDEMIC THRESHOLD	DEFINITION
Populations 30,000 – 100,000	Attack Rate of 10 suspected cases per 100,000 inhabitants
Populations < 30,000	5 suspected cases in one week OR Doubling of number of cases over a three-week period

DATA AS REPORTED AND ACCURATE BY NCDC AS AT MIDNIGHT 31st December 2023