

Nigeria Centre for Disease Control and Prevention

Protecting the health of Nigerians

National Cholera Case Management Updates

Nigeria

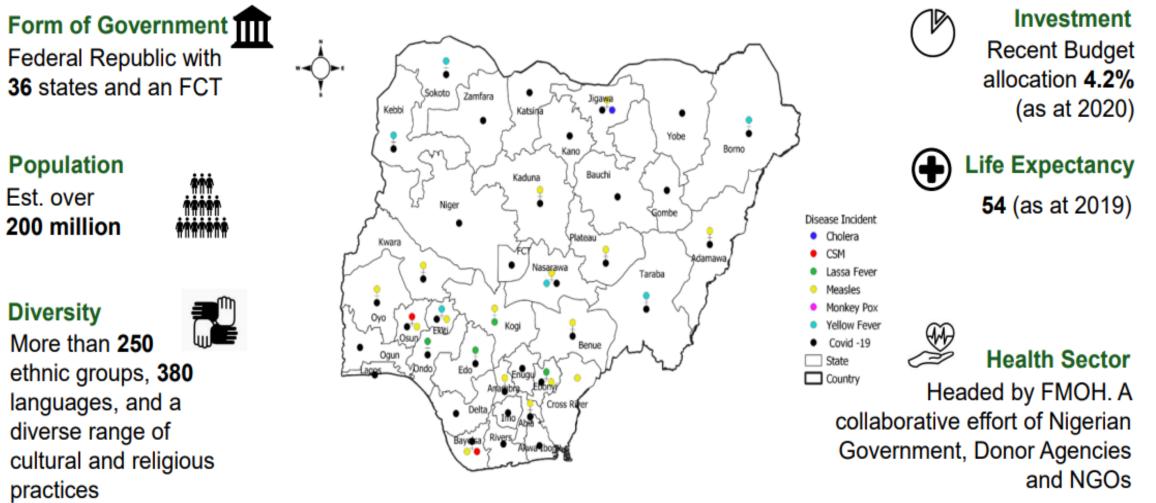
Dr Fatima Saleh Nigeria Centre for Disease Control and Prevention (NCDC) 26th September 2023

Outline

- Introduction
- Disease Surveillance in Nigeria
- Cholera reporting system and data and reporting tool(eIDSR) –
 IDSR
- Cholera Case Management Updates Data speaks
- Achievements, Challenges & Mitigation
- Next steps



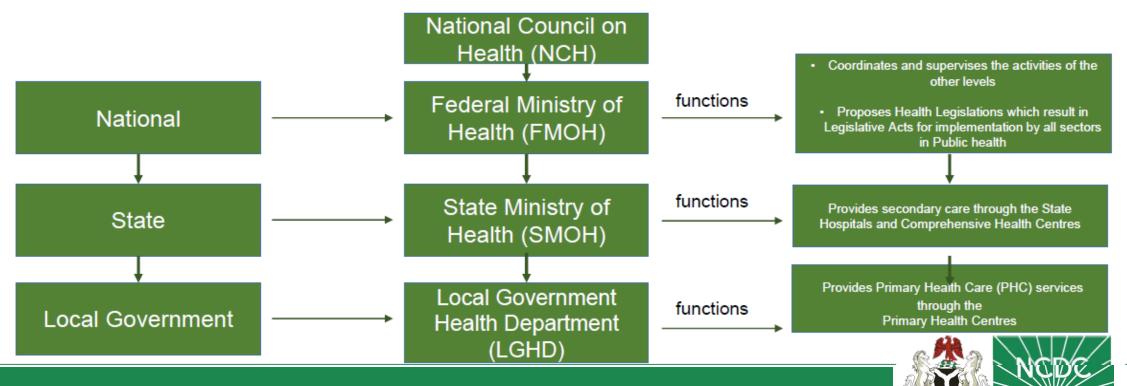
Nigeria, Our Country





The Nigeria Public Health System

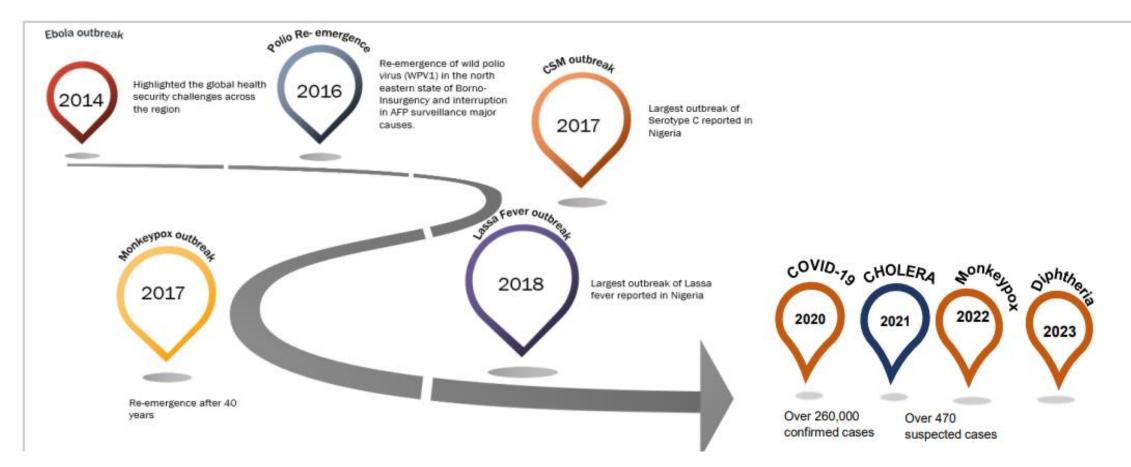
- Is organized in a three-tier basis; National, State and Local Government
- The National Council on Health(NCH) is the highest policy-making body on health in the country
- It comprises of the Minister of Health at the Federal level (chairman). all the State Commissioners
 of Health; and the Permanent Secretaries of the Ministries of Health



NIGERIA CENTRE FOR DISEASE CONTROL AND PREVENTION

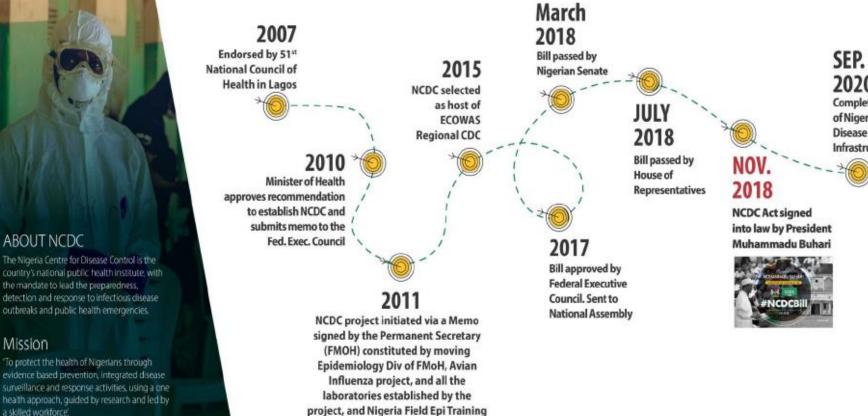
Public Health Diseases in Nigeria

· Communicable and infectious diseases are the major health problem in Nigeria









2020 **Complete Digitalisation** of Nigeria's National

Disease Surveillance Infrastructure

JAN. 2021

40,000 Health Care Workers trained on Infection Prevention Measures

2021

JAN.

Established more than 70 public health laboratories with at least one in every state and supported the activation of 36 private laboratories





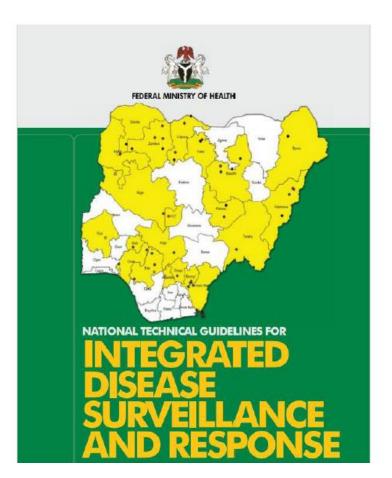
evidence based prevention, integrated disease surveillance and response activities, using a one health approach, guided by research and led by a skilled workforce.

outbreaks and public health emergencies. Mission To protect the health of Nigerians through

the mandate to lead the preparedness,

ABOUT NCDC

Nigeria's Policies Targeting Health Security - IDSR



The IDSR guideline was developed to guide the collection, collation, analysis and communication of data for diseases of public health importance in Nigeria.

This ensures that data is collected and used for public health action

National Level

- EBS implementation using hotlines and media scanning at PHEOC
- Oversees implementation of EBS and IBS at all levels

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State Level:

LGA Level:

- EBS implementation using hotlines and media scanning State PHEOC and Ministry of Health
- Supervises implementation of EBS and IBS at district levels

- DSNO ensures EBS implementation using hotlines and media scanning
- · Supervises implementation of EBS and IBS at health facility and community levels

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Health Facility Level:

- Surveillance focal person/Health facility in-charge ensures EBS implementation at health facilities
- Supervision of EBS and IBS at community level

Community Level:

- CBS Focal Persons ensures EBS and IBS implementation levels
- Detects and notify alerts to nearest health facilities

Figure 2: Levels of application and reporting of EBS and IBS in the context of IDSR



Evolution of IDSR Guidelines

866 F	Adopted strategy for public health surveillance in the WHO-AFRO Region
CO 1 st Edition	Epidemic prone diseases Disease targeted for elimination and eradication Diseases of public health importance
0102 2 nd Edition	Non communicable diseases Public health emergencies of international concerns (IHR 2005)



Evolution of IDSR Guidelines Cont'd

6 3rd Edition Emerging and re-emerging diseases Situations and needs of member states Lessons from outbreaks and emergencies New strategies and policies Advancement of technology



Evolution of IDSR.....contd

IDSR technical guidelines 2019 (3rd Edition)

New areas include

- Disaster risk management
- Points of Entry and IDSR
- Risk Communication
- Electronic reporting (e-IDSR)

Elaborates more on

- Event based surveillance
- Community-based surveillance
- IDSR in One health concept



Key principles of IDSR

Integration

- Harmonizing different methods and tools to prevent inconsistent information
- Maximizing efforts among all disease prevention and control programmes and stakeholders

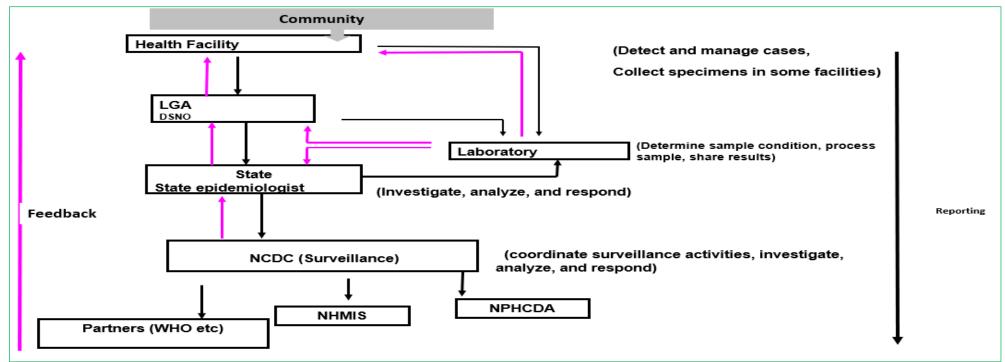
Coordination

• Working together effectively for the rational and efficient use of available but limited resources and various disease programs



Cholera Reporting System and Data Tools

IDRS



Line List, Case Based Reporting

								Age (in											D (()					Date of	
								years) If					Reporting		Receive	No of	Level of	Specimen	Date of Sample					discharge	
								greater than	Age	Gender	Date of		Date Seen at HF Health	Inpatient /	d OCV	OCVs Date of	dehydratio	taken	Collection		Culture		Date of	(dd-mmm-	Remark/comme
/N	um E	pid No.	State	LGA	Ward	Settlement	First Name Surname	1yr	Group	(M/F)	Onset	Epi Week	(dd-mmm-yyyy) Facility	Outpatient	(Yes/No)	received admission	n	(Yes/No)	(dd-mmm-yyyy)	Result	Result	Serotype Outcome	Death	yyyy)	nt
	1																								
	2																								
	3																								
	4																								
	5																								



Overview of SORMAS

- The Surveillance Outbreak Response Management and Analysis System (SORMAS) is mobile e-health system - digitization of the IDSR
- Used for rapid collection, reporting and analysis of disease/events data in realtime for appropriate public health action
- Exists on two platforms: a Mobile application for offline entry in communities with poor internet access and a web application for supervision and monitoring of activities
- Has modules covering monitoring and analysis of data, case investigation, contact tracing, Event-based surveillance, case management and sample testing



Advantages of SORMAS

- SORMAS has the potential of achieving the following :
- Standardization of data
- Improved timeliness and completeness of reporting
- Early detection, investigation, and response to outbreak or public health events
- Reduced manual data entry (from paper to Microsoft Office packages) which is prone to errors
- Rapid transmission of data
- Better management of data through provision of secure data storage
- Automated generation of Data visualizers (graphs, charts and maps)
- Improved quality of data



Cholera case management on SORMAS

The SORMAS platform allows a comprehensive report of case management data with the availability of forms for capturing

- pre-existing conditions
- Prescriptions
- execution of prescriptions
- Daily vitals of patients



Cholera case management on SORMAS

Pre-existing conditions				create new clinical as
Tuberculosis	YES NO UNKNOWN	Chronic heart failure	YES NO UNIONOWN	DATE AND TIME OF VISIT *
Asplenia	YES NO UNKNOWN	Chronic pulmonary disease	YES NO UNKNOWN	CLINICIAN REMARKS
Hepatitis	YES NO UNKINOWN	Renal disease	YES NO UNKNOWN	
Diabetes	YES NO UNKNOWN	Chronic neurological/neuromuscular disease	YES ND UNKNOWN	Clinical measurements
Immunodeficiency other than HIV	YES NO UNKNOWN	Cardiovascular disease including hypertension	YES NO UNKNOWN	CURRENT BODY TEMPERATURE IN ° C
HIV	TES NO UNIONOWN	Obesity	YES NO UNKNOWN	
Congenital syphilis	155 NO UNKNOWN	Current smoker	YES NO UNKNOWN	BLOOD PRESSURE (SYSTOLIC) BLO
Down syndrome	YES NO UNKINOWN	Former smoker	YES NO UNKNOWN	GLASGOW COMA SCALE WE
Liver disease	YES NO UNKNOWN	Asthma	YES NO UNKNOWN	
Malignancy	YES NO UNKNOWN	Sickle cell disease	YES NO UNKNOWN	Clinical Signs and Symptoms
ADDITIONAL RELEVANT PRE-EXISTING CONDI	TIONS			Please tick an answer for ALL symptoms indi
		ſ		Abdominal pain
		l	DISCARD SAVE	

Create new clinical assessment

DATE AND TIME OF VISIT *					ATTENDING CLINICIAN				
26/09/2020	14:20			~					
CLINICIAN REMARKS									
Clinical measurements									
CURRENT BODY TEMPERATURE IN ° C					SOURCE OF BODY TEMPERATURE				
				~					`
BLOOD PRESSURE (SYSTOLIC)	BLOOD PR	ESSUR	E (DIAS	TOLIC)	HEART RATE (BPM)	RESPIRAT	ORY RA	TE (BPI	M)
~				~	~				`
GLASGOW COMA SCALE	WEIGHT (R	(G)			HEIGHT (CM)	MID-UPPE	ER ARM	CIRCU	MF. (CM)
~				~	*				
Clinical Signs and Sumptom	-								
Clinical Signs and Symptom									
Please tick an answer for ALL sympton	ns indicating i	if they i	were p	vresent at the ti	me of this visit:	<u>Clear all</u>		<u>Set de</u>	eared to N
Abdominal pain		YES	NO	UNKNOWN	Pneumonia (clinical or radiologic)		YES	NO	UNKNOW

Figure 13: Form for capturing Pre-existing conditions

Figure 14: Form for capturing Patient Vitals



Cholera case management on SORMAS

PRESCRIPTION TYPE*	PRESCRIPTION DETAILS	TREATMENT TYPE *	TREATMENT DETAILS
DATE PRESCRIPTION ISSUED *	PRESCRIBING CLINICIAN	×	
TREATMENT START DATE	TREATMENT END DATE	TREATMENT DATE & TIME *	EXECUTING STAFF MEMBER
ROUTE		DOSE	ROUTE
ADDITIONAL NOTES		ADDITIONAL NOTES	
	DISCARD SAVE		DISCARD SAVE

Create new treatment

Figure 15: Form for capturing Prescriptions

Figure 16: Form for capturing Executed Prescriptions



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Create new prescription

Cholera case management Updates

Overall objective

 Increase the capacity for identification, isolation and treatment of suspected and confirmed cases in order to reduce mortality

Specific objectives

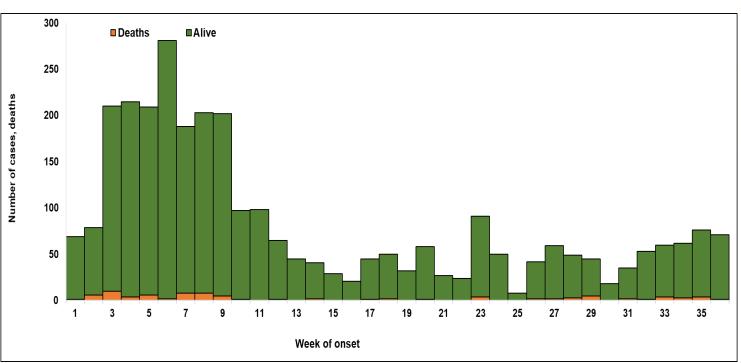
- Promote strict compliance with standard treatment and IPC protocols
- Collate and analyze data on symptoms, signs and complications of cases daily
- Make daily calls to the State case management focal persons
- Support, train and supervise clinicians at the State and LGA levels as the need arises

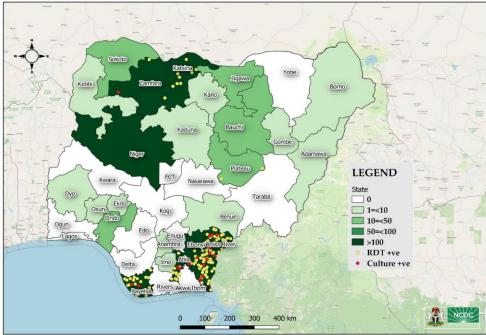


Data speaks - Nigeria weekly epidemiological trend of cholera cases (Week 1- 36, 2023)

• Cumulative summary from (Epi week 1- Epi week 36, 2023)

Suspected	Con	firmed	Deaths	Case Fatality	States	LGAs
Cases	RDT	Culture	(Suspected Cases)	Ratio (%)	Reporting Cases	Reporting Caes
3,007	178	45	89	3.0%	25	126





Top 10 states in cumulative cases

- Zamfara, Cross River, Katsina, Bayelsa, Ebonyi, Niger, Abia, kano, Ondo – With 2836 cases and 94% cumulative in 2023

Top 15 Local Government Areas (LGAs) in cumulative cases

- Obubra, Gusau, Bungudu, Ikwo, Abi, Yenagoa, Southern Ijaw, Talata Mafara, Umuahia North, Makwa, Babura, Maradun, Anka, Ikom, Nembe, Auyo, –Cumulated, 1893 with 63% cases in 2023



Cholera case management updates – Data speaks

	• Total admitted from $Wk1 - 36 = 1,143$	
	 Deaths = 27, CFR = 2.4% 	
CTC	 Total Discharged = 1116 	
4 in 3 states	• Recovery = 98%	

	• Total admitted from $Wk1 - 36 = 1321$
	 Deaths = 44, CFR = 3.3%
CTU	 Total Discharged = 1277
32 in 25 states	• Recovery = 97%



Cholera case management updates – Data speaks

Outpatient and Community Reported Cases

- Total cases Wk1 36, 543
- Deaths = 18, CFR = 3.3%





Achievements so far

- Finalized cholera case management guidelines, treatment protocol and SOP Undergoing editorials
- Distributed essential response commodities to all cholera affected states
- Mapped cholera hot spots for chlorination activities in Zamfara



Challenges and Mitigation strategies

Challenges

- Insufficient medical consumables at subnational RDT kits, drugs, fluids
- Limited laboratory capacity for cholera testing
- Inadequate designated Cholera Treatment centers (CTCs) and Units (CTUs) across hot spot States

Mitigation strategies

- Ensure regular supplies
- Optimize cholera laboratories across all hot spot States
- Designate CTC and CTU across cholera hot spot States



Next steps

- Disseminate the developed cholera treatment guidelines by December 2023
- Conduct advocacy to the hot spot State to designate CTCs and CTUs
- Expand the cholera laboratory network across the 6 geopolitical zones by 2nd quarte, 2024
- Develop an IAP and mobilize resources against the next outbreak cycle
- Finalization of National Cholera Plan and GTFCC approval



Thank you Nigeria Centre for Disease Control and Prevention

A healthier and safer Nigeria through the prevention and control of diseases of public health importance

