

July 21st, 2022

Management of Covid-19 vaccine expiry

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Zabihullah Kamran (UNICEF)
Baboucarr Boye (UNICEF Sierra Leone)

Agenda

Topic	Presenter	Time
WHO guidance on utilization of COVID-19 vaccines before the expiration date	Maricel CASTRO (WHO)	10 min
System for tracking COVID-19 vaccine supply, utilization and expiration, and use of data to guide decisions and technical assistance (TA)	Godiskine ATTEMENE (WHO)	10 min
A risk-based approach to mitigating risk of expiring COVID-19 vaccines	Zabihullah KAMRAN (UNICEF)	10 min
Example of country strategies in managing COVID-19 vaccine expiry	Baboucarr BOYE (UNICEF Sierra Leone)	10 min
Question and answer		20 min





Maricel de Quiroz-Castro Vaccine Supply Chain and Logistics Team WHO HQ/IVB/EPI

Overview

- The guidance primarily applies to products with a short shelf life - 6 months or shorter - on arrival in the country.
- Intended to guide decisions and actions of immunization managers at all levels, COVID-19 response national coordination committees, and partners.
- The guidance is available at the <u>COVID-19</u> vaccine introduction toolkit website.



Guidance on utilization of COVID-19 vaccines before the date of expiry



Key steps to ensure utilization of vaccine doses before the date of expiry

Step 1

Use monitoring data to estimate capacity to utilize vaccines before expiry

Step 2

Choose an appropriate strategy to enhance vaccine utilization

Step 3

Estimate whether the choices made to accelerate utilization will result in consumption of the available vaccine doses before expiry

Step 4

Monitor utilization rates and take corrective actions when required

Step 1. Use monitoring data to estimate capacity to utilize vaccines before expiry

Required monitoring indicators:

- 1. Number and geographical distribution of **functional vaccination sites**
- 2. Number/frequency of **sessions conducted** at each vaccination site
- 3. Average number of vaccine **doses administered per session** at each site (use average for last five sessions).
- **4. Vaccine stock levels** per product at different SC level
- **5. Expiry date** of the available vaccine doses per lot
- **6. Proportion of planned vaccinations administered** during each session —estimates the uptake of vaccine at the site (use average for last five sessions).

Step 1.1. Estimate required utilization to consume all the doses 2 weeks before the expiry period

Calculate the number of days left before the expiry date

Formula: Labeled expiration date - the current date

Estimate the required daily utilization rate to use up the vaccine
 14 days before expiry.

Formula: No. vaccine doses in stock ÷ (no. days left to expiry - 14)

• Estimate the required **weekly utilization rate** to use up the vaccine 14 days before expiry:

Formula: Daily utilization rate × 7

Step 1.2. Estimate the current weekly vaccine utilization

Calculate the weekly utilization of vaccines at each site.

Formula: Average vaccinations administered per session (average of previous five sessions) × number of sessions conducted per week

Calculate the weekly utilization nationally

Formula: sum of the weekly utilization of vaccine doses at each site

Step 1.3. Estimate if there is a deficit in utilization

If estimated weekly utilization rate to consume the vaccine ≤ current weekly utilization



- Continue monitoring daily utilization rate at the district level.
- Weekly reporting to national level
- Assessing if any actions are required to accelerate utilization.

If estimated weekly utilization rate to consume the vaccine > current weekly utilization

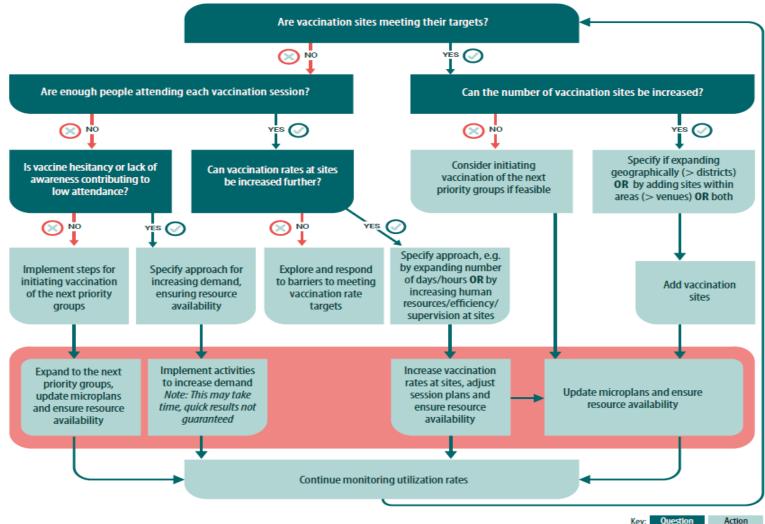


 Perform step 2 to explore the options for enhancing vaccine utilization.

Step 2. Choose an appropriate strategy to enhance vaccine utilization

- Identifying the context why low utilization is experienced:
- Exploring available options to enhance vaccine utilization depending on the local context and the contributing factors to suboptimal vaccine utilization

Decision tree to explore operational strategies and optimal solutions for enhancing vaccine utilization



Additional factors important in making informed choices

- Always use first the product/batch that expires first (e.g. FEFO) unless there are logistical challenges in using the vaccines in certain geographies, interchangeability of products, or there are specific restrictions.
- Explore and address the potential causes of low uptake.
- Implement all efforts to address vaccine hesitancy and generate demand
- When selecting strategic approaches to accelerate utilization, make sure to:
 - 1. Map effort and resources required to implement each option and projected impact
 - 2. Choose options that have optimal balance between feasibility (based on available resources) and
 - accelerated vaccine utilization
- Keep in mind the following guiding principles when selecting strategies to increase vaccine uptake:
 - 1. Maintaining focus on the primary objectives of COVID-19 vaccination
 - 2. Ensuring equitable vaccine distribution

Step 3. Choose an appropriate strategy to enhance vaccine utilization

Once decisions on the strategic approach to accelerate vaccine utilization are made, but before implementation:

- Review the projected utilization based on the changes made using the planned vaccine administration rates and the formulae shown in Step 1.
- Assess whether the projected utilization rate is adequate to ensure consumption of all vaccine doses at least 2 weeks before the expiry date.
- Assess availability of human and financial resources to implement the changes.
- **Update the district and local microplans and session plans**, to reflect the changes and ensure that the required resources (supplies, human resources, finances) are distributed to the vaccination sites so they can meet session targets.
- Communicate to all relevant stakeholders the adjustments made in the microplans and session plans
- Adjust vaccine shipment plans accordingly at the national, regional and local levels.

Step 4. Monitor utilization rates and take corrective actions when required

- District level should monitor utilization rate daily.
- Districts should report utilization rates to the national level either daily or weekly.
- Immediately report to the national level if the daily utilization rates indicate a sudden drop or there are reports of any issues that pose a risk for timely utilization.
- National level should review stock levels and utilization daily or weekly, and timely take actions to address inadequate utilization at any subnational level.
- Where necessary, consider redistribution of vaccine doses within the country to optimize utilization.



COVID 19 Vaccine Supply and Utilization Tracking System. Guide to decision–making and technical assistance (TA)

Godiskine Attemene (WHO)

- 1. Goal: Contribute to the effective deployment of COVID-19 vaccines and vaccination consumables. Specifically, it will involve:
- **1.** Ensure that vaccines planned by COVAX, AVAT and others have actually arrived in the central warehouses of the beneficiary countries and have been received in accordance with the procedures in force
- 2. Check each time (weekly) that the quantities of vaccines received are sufficient to meet the vaccination coverage targets set

3. Ensure that vaccines at national level are managed in accordance with the rules of the art

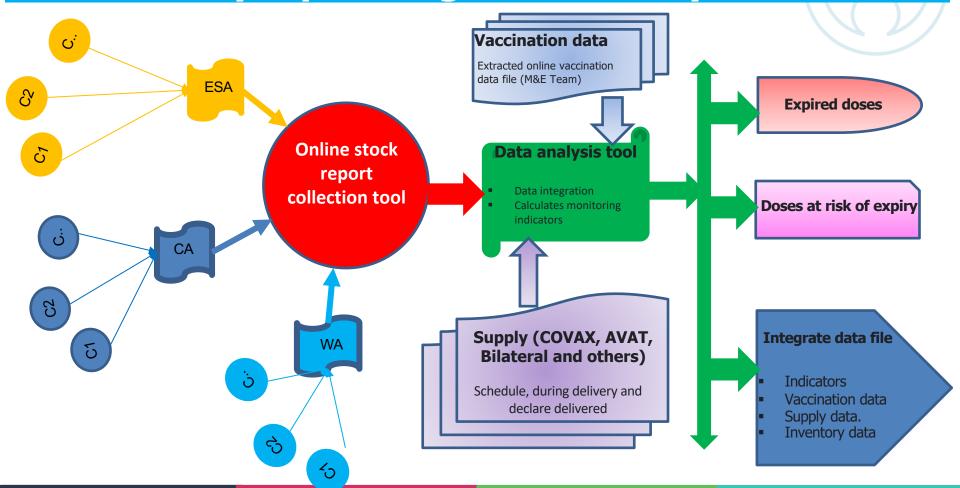
4. Improve stock visibility to facilitate strategic and operational decisions

5. Identify vaccines at risk of expiration for appropriate decision-making to anticipate expiry losses

6. Have the status of expired vaccine doses to track their elimination by country according to appropriate procedures

7. Be able to take stock of the vaccination situation at the end of the pandemic for each country and at the regional level

2. Synoptic diagram of the system



Data to be collected

- 1. Produit/Product Type
- 2. Packaging/Presentation
- 3. Doses reçues/Doses Received
- 4. N° Lots/Batch Number
- 5. Date de péremption/Expiry Date
- Stock Disponible utilisable/Usable AvailableStock
- Doses Expirées non détruites/ExpiredDoses not destroyed
- 8. Date Dernière Mise à Jour/Last Update Date

- Fabricant/Manufacturer/Laboratory
- 10. Source
- 11. Date de Reception/Date of receipt
- 12. Qte Reaffectée/Qty Reallocated to other countries
- Doses expirées detruites/Expired doses destroyed
- 14. Technique de destruction/Destruction technique
- 15. Observations/Remarques

Monitoring indicators (1/2)

1. Expired vaccine doses = Doses expired over a period of time vaccine doses = Doses received over the same period

- 2. Expired doses destroyed = Doses expired over a period of time Doses received over the same period
- 3. Adequacy of vaccine supply against the 70% = Doses received over a period of time Doses needed to vaccinate the target of 70% of the population target

4. Adequacy of the supply of injection syringes = $\frac{\text{Number of injection syringes received over a periode of time}}{\text{Doses received over the same periode}}$

Monitoring indicators (2/2)

rate =
$$\frac{\text{Doses administered over a period of time}}{(\text{Doses received}-\text{Doses remaining over the same period})}$$

4. Collection Tool/Stock Report

STATUS OF COVID-19 VACCINES RECEIVED BY AFRICAN COUNTRIES/ETAT DES STOCKS DE VACCINS CONTRE LA COVID-19 RECUS PAR LES PAYS D'AFRIQUE

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Guinea	Vaccin	10	48,800	2 021 010 033	18-01-202	3	0 (09-06-2022	SINOPHARM	BILLATERAL	03-03-2021	. 0		0	
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	Vaccin	10	-1		01-07-2021	l I	0		SPOUTNIK V	BILLATERAL	06-03-2021	0	(ACHAT GOUVERNEMENT
	Vaccin	10		4120Z004	13-04-202		0 0		ASTRAZENECA		26-03-2021		48,00	0 Disinfection and landfil	
	Vaccin	10	42,200	I-180521	01-11-202	1	0 (09-06-2022	SPOUTNIK V	BILLATERAL	12-07-2021	. 0		0	ACHAT GOUVERNEMENT
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	Vaccin	1		1822804	45 40 000) (06-06-2022		COVAX	05-08-2021	0	()	700 Doses disponibles au niveau central
	Vaccin	1 1		214C21A	15-12-202		0 (06-06-2022		COVAX	05-08-2021			0	500 doses disponibles au niveau central
	Vaccin	10		ABZ6077	03-11-202		0 (AstraZeneca	COVAX	11-09-2021	. 0		0	
	Vaccin	10		B202107094	20-06-2022	70,00) (06-06-2022		COVAX	04-10-2021	0	(0	
	Vaccin	10	337,920	C202107134	17-06-202	2	U (06-06-2022	Sinovac	COVAX	04-10-2021			U	
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6. Adding a new arrival

Insert a short story between the last two pink lines

STATUS OF COVID-19 VACCINES RECEIVED BY AFRICAN COUNTRIES/ETAT DES STOCKS DE VACCINS CONTRE LA COVID-19 RECUS PAR LES PAYS D'AFRIQUE

Pays/Countries	Produit/Product Type	Packagin g/Presen tation		N° Lots/Batch Number	Date de péremption/E xpiry Date		Doses Expirées non détruites/Ex pired Doses not destroyed	Jour/Update Date			Reception/Dat e of receipt				Observations/Remarques
Guinea	Vaccin	10	48,80	0 2 021 010 033	18-01-2023	C	0			BILLATERAL	03-03-2021	0	0		
	Vaccin	10	45,600	0 2 021 010 032	18-01-2023	C	0	07-06-2022	SINOPHARM	BILLATERAL	03-03-2021		0		
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	Vaccin	.0	42,20	0 I-180521	01-11-2021	C	0	07-06-2022	SPOUTNIK V	BILLATERAL	12-07-2021	0	0		ACHAT GOUVERNEMENT

Fill in the line and insert a new line if there are other products. Please always keep two empty rows at the end of the data. Update update date

STATUS OF COVID-19 VACCINES RECEIVED BY AFRICAN COUNTRIES/ETAT DES STOCKS DE VACCINS CONTRE LA COVID-19 RECUS PAR LES PAYS D'AFRIQUE

Pays/Countries	Produit/Product Type		Doses reçues/Dose Received	N° Lots/Batch Number	Sate de péremption/E xpiry Date	Stock Disponible utilisable/Us able Available Stock	Doses Expirées non détruites/Ex pired Doses not destroyed	Jour/U Date	Jpdate	nufacturer/L aboratory		Reception/Dat e of receipt	Reaffectée/Qt y Reallocated to other		Technique de destruction/Destruction technique	Observations/Remarques
Guinea	Vaccin	10		2 021 010 033	18-01-2023	0	0	_			BILLATERAL	03-03-2021		(
	Vaccin	10		2 021 010 032	18-01-2023	0	0				BILLATERAL	03-03-2021		(
	Vaccin	10		I-210321	01-09-2021		0				BILLATERAL	06-03-2021		(ACHAT GOUVERNEMENT
	Vaccin	10		AZE2345	01-07-2021					S OUTNIK V		06-03-2021		(ACHAT GOUVERNEMENT
	Vaccin	10		4120Z004	13-04-2021	0				A TRAZENECA		26-03-2021		48,000	Disinfection and landfill	
	Vaccin	10		I-180521	01-11-2021		0			OUTNIK V	BILLATERAL	12-07-2021		(ACHAT GOUVERNEMENT
	SAB/ADS_0.3ml	50	23,450	AZ234	01-01-2023	23,450	0	12-	-06-2022	5 2I	Bilateral	12-04-2022	0	(
Total Vaccin Guinea			225,600			0	0						0	48,000		

7. Inventory update

Edit data as needed and update report update date

			STATU	JS OF COVID-19 VAC	CCINES RE	CEIVED BY A	FRICAN CO	UNTRIES	/ETAT DES S	TOCKS DE V	ACCINS CON	TRE LA COV	ID-19 RECU	IS PAR LES PAYS D'AFF	RIQUE 7
Pays/Countries	Produit/Product Type		Doses reçues/Dose Received	N° Lots/Batch Number	Date de péremption/l xpiry Date	able Available	détruites/Ex	Jour/Updat Date	Fabricant/Ma e Aufacturer/L aboratory		Reception/Dat		detruites/Ex	Technique de destruction/Destruction technique	Obs , vations/Remarques
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Total Vaccin Guinea			225,600			0	0					0	48,000		

8. Résultats pour guider les décisions et l'AT

11/17 countries reported on time. The Gambia has stopped reporting for more than ten weeks.

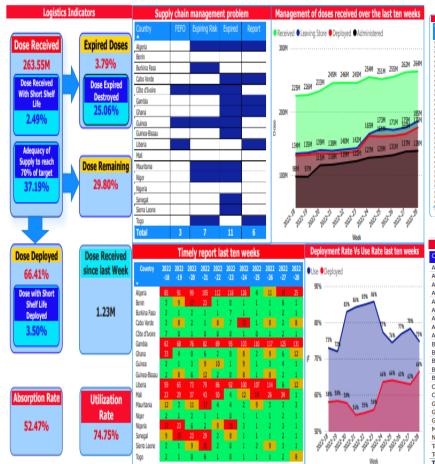
264 million doses have been received to date, or 37% of the doses needed to reach the target of 70% of the population

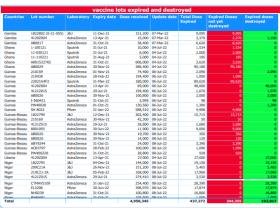
52% of the doses received were administered and 75% of the doses sent to the field were used.

Losses by expiry>1% and disposal < 25%.

14/17 countries need assistance -> Reporting: 06, Risk of expiry: 07, Expired dose not destroyed: 11 and Non-application of FEFO: 03

While the utilization rate averages 80%, the vaccine rollout rate averages 60%. While use is good, there are weaknesses in the deployment of vaccines to delivery sites





		Dose at	risk per	Country		
Countries	Batch number	Laboratory	Expiry date	Dose Received	Update date	Dose at Risk
Algeria	B202107103	Sinovac	30-Jul-22	389,880	21-Jun-22	382,712
Algeria	B202108104	Sinovac	31-Jul-22	445,400	21-Jun-22	445,126
Algeria	B202108105	Sinovac	01-Aug-22	441,240	21-Jun-22	441,028
Algeria	B202108106	Sinovac	02-Aug-22	442,880	21-Jun-22	442,666
Algeria	C202107141	Sinovac	24-Jul-22	437,920	21-Jun-22	437,724
Algeria	C202107142	Sinovac	25-Jul-22	328,800	21-Jun-22	328,602
Algeria	C202107143	Sinovac	26-Jul-22	446,120	21-Jun-22	135,908
Algeria	C202107144	Sinovac	29-Jul-22	445,760	21-Jun-22	445,657
Algeria	C202107145	Sinovac	30-Jul-22	208,800	21-Jun-22	208,696
Burkina Faso	B202107059	Sinovac	17-Jul-22	200,880	08-Jul-22	82,480
Burkina Faso	B202107060A	Sinovac	17-Jul-22	92,000	08-Jul-22	92,000
Burkina Faso	B202107092	Sinovac	20-Jul-22	19,920	08-Jul-22	19,920
Burkina Faso	B202107093	Sinovac	20-Jul-22	31,120	08-Jul-22	31,120
Burkina Faso	B202107094	Sinovac	20-Jul-22	3,600	08-Jul-22	3,600
Côte d'Ivoire	PW40331	AstraZeneca	31-Jul-22	283,760	08-Jul-22	283,760
Côte d'Ivoire	PW40388	AstraZeneca	31-Jul-22	16,240	08-Jul-22	16,240
Guinea	C202107145	Sinovac	30-Jul-22	237,220	06-Jul-22	20,756
Guinea	C202108147	Sinovac	01-Aug-22	180,540	06-Jul-22	120
Guinea	PW40382	AstraZeneca	31-Jul-22	149,760	06-Jul-22	81,624
Mauritania	3700CD	Pfizer	30-Jul-22	57,330	07-Jul-22	57,330
Niger	PW40381	AstraZeneca	31-Jul-22	250,000	08-Jul-22	250,000
Togo	C202107139	Sinovac	21-Jul-22	370,600	08-Jul-22	208,840
Togo	C202107140	Sinovac	23-Jul-22	331,400	08-Jul-22	222,800
Total				5,811,170		4,638,709



Management of Covid-19 vaccine expiry

Zabihullah Kamran (UNICEF)

Vaccine Management Specialists (VMS) deployment

- 85 VMS deployed across 40 countries.
- Over 55% at subnational levels.
- Embedded within the NLWG or EPI agencies.

Selection Criteria

- High volume countries (COVAX, Pfizer, biliteral and donations)
- Target population size
- C19 coverage rates
- EVM composite and E6 (Stock Mgt)
- Stockout history
- Drop in DTP3 rates
- Country validation Needs assessment survey



COVID-19 Expiry and wastage monitoring

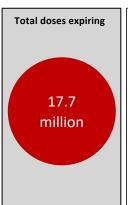


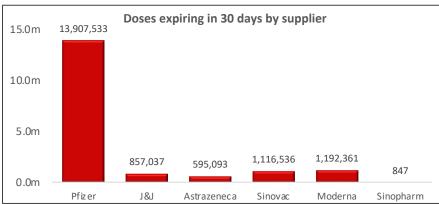
Expiry Monitoring

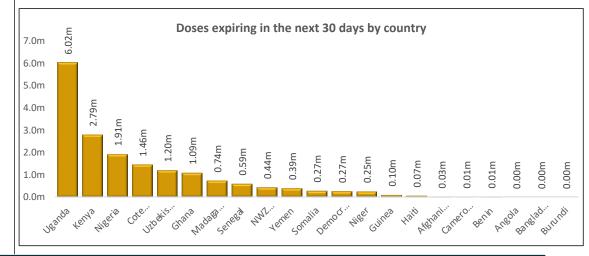
- VMS receives batch-wise lists of COVID-19 vaccines expiring in the next 30, 60 and 90 days.
- They closely monitor these batches and report back any wastages
- Support the planning, implementation and monitoring of special vaccination campaigns to reduce the chances of wastage
- Contribute to the retrieval and redistribution of expiring vaccines from low-utilization areas to high-demand ones.

The VMS has contributed to preventing over 25 million doses of COVID-19 from expiry since February 2022

- · Demand and distribution planning.
- · Supportive supervision/Monitoring
- · Temperature monitoring and cold chain inventories
- Data management
- · Capacity building and on-the-job training



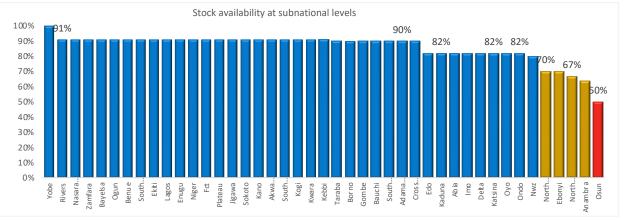


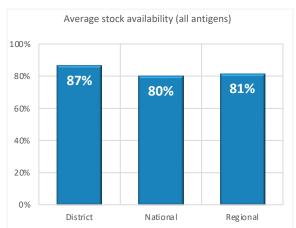


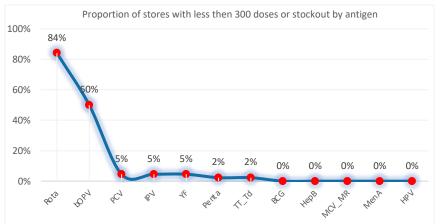
Nigeria - RI Stock Availability









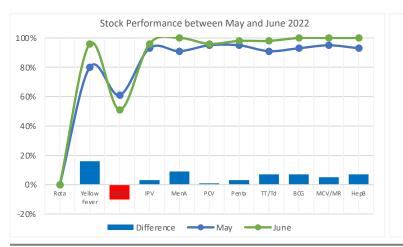


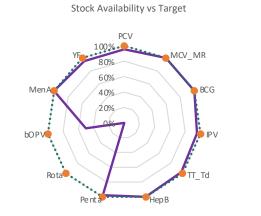


Note: Rota is not part of the routine schedule yet.

Nigeria - Stock Performance Comparison, Devices stockouts and Cold Chain Availability



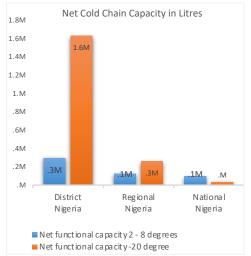




How Stock Availability	changed	compared	to	last
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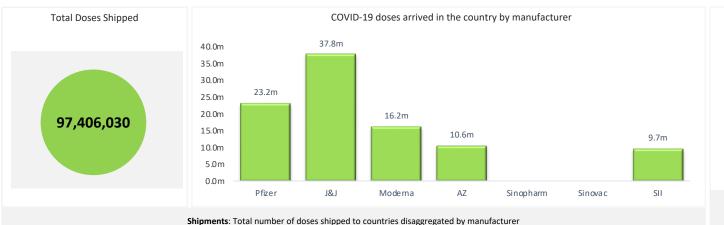
month										
Antigen	May	June	Difference							
Rota	0%	0%	0%							
Yellow Fever	80%	96%	16%							
bOPV	61%	51%	-10%							
IPV	93%	96%	3%							
MenA	91%	100%	9%							
PCV	95%	96%	1%							
Penta	95%	98%	3%							
TT/Td	91%	98%	7%							
BCG	93%	100%	7%							
MCV/MR	95%	100%	5%							
НерВ	93%	100%	7%							

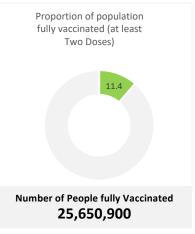


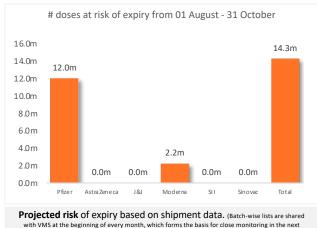


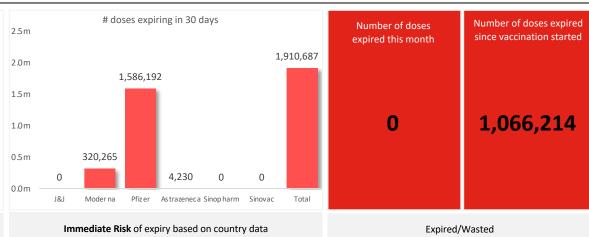
Nigeria – COVID-19 Shipments, Expiry tracking and Wastage















Major iSC risks

- Significant build-up of many vaccines at central stores and inadequate storage space for vaccines and devices.
- Large quantities of expiring COVID-19 vaccines.
- Use of substandard transportation means for vaccine movement to Zones and States.
- · Limited skills of supply chain staff

Mitigation efforts

- On-the-job training and capacity building of vaccine and cold chain management personnel
- · Preference for tracking Pfizer utilization
- Closer monitoring of Transport company
- Public awareness campaigns on the risks of COVID-19 Construction of new cold rooms at the NSCS
- COVID-19 vaccines distributed to states for better consumption
- · Fixing the national power grid system
- Integrated COVID-19 and RI approach phased by states. However, other challenges restrict the performance

Action points

- Follow up on the procurement of private warehouse
- Follow up on the construction of cold rooms
- Follow up on consumption of COVID-19 vaccines before expiry



Stockouts (in the next 60 days)

- Issues with 3PL could lead to major stockouts downstream.
- Rota stockout reported by all most all stores, however it is not in RI schedule yet.
- Yellow fever vaccine stockouts.

Reasons for previous stockouts

- Inefficiency of transport company and fragmented vaccine supplies
- Absence of data triangulation
- Delays in supply of forecasted and quantified vaccines due to funding constraints
- No complete application of PUSH strategy
- Inaccurate forecasting of vaccine supply needs due to unreliable single source data
- Delayed payment and protest by 3PL companies, probably under-budgeting also

Mitigation

- Emergency delivery of vaccine using private transport companies to high-risk areas.
- Alternative funding by USAID has also been leveraged to deliver critical immunization supplies and prevent stock-outs.



Major VMS contributions

- Planning the complete adaption of vaccines and commodities last mile PUSH to address stock-outs.
- Supported the retrieval and redistribution of COVID-19 vaccines (J&J) from areas with low consumption to areas of high demand.
- Supported the Planning, distribution and accountability process of vaccines and commodities used during the implementation of Integrated NPSIA in Gombe state
- 4. Facilitated data management capacity building to support data-driven processes.
- Conduct field supervision and monitoring of COVID-19 uptake in the Nasarawa State.
- Tracked and plan the redistribution of RI and COVID-19 vaccine in all 36 states + FCT with 6 Zonal VMCs in the country.
- Monitor stock out and plan for National replenishing of vaccines and devices, this is made possible through the use of the weekly vaccine stock report template designed collectively by the VMCs and Supervised by CO.
- 8. Supported NLWG, capacity development and on-thejob training of counterparts.



Experience sharing on Covid-19 vaccination in Sierra Leone

Outline

- Country profile
- Covid-19 Vaccine Doses received
- Stock Balances & Pipeline Doses
- COVID-19 vaccination performance
- Strategies to Scale up Vaccination
- Support to NLTWG
- Best practices
- ISC Challenges and Mitigations



Sierra Leone - Country Profile



- Location: Western Coast of West Africa
- Area: 71,740 sq KM
- Administrative: 5 provinces and 16 districts
- Total Population: **8,488,831** people
- Target population for COVID-19 vaccination-**5,602,628** (above 12 years)
- COVID-19 vaccination was launched on March 15, 2021



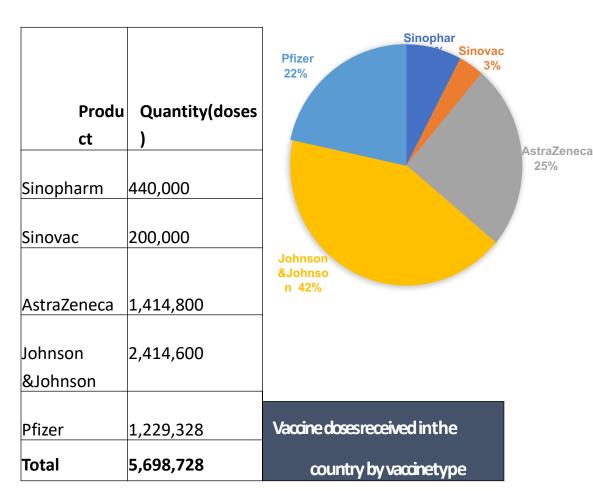
COVID-19 Vaccination Milestones

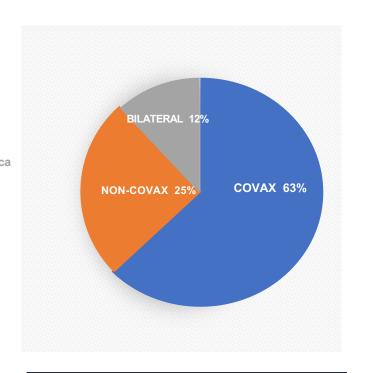
- February 2021: Development of National Deployment and Vaccination Plan
 - ✓ Reviewed and updated in September 2021
- March 2021: Launched and rolled out COVID-19 vaccines in the country
 - ✓ Vaccine deployment has been based on WHO recommendations, global best practices and in-country lessons learned





Vaccines received in the country- February 2021 to June 2022





Vaccine doses received by source



Stock Balance (End of June)

Vaccine types	Balances in Doses		
Pfizer	305,580		
Sinopharm	11,158		
J&J	1,292,495		
Sinovac	200,000		

Pipeline Doses (End of December)

Months	Vaccine Types	Quantity to Receive	Sources	
August	J&J	380,000	MCF Via Avax	
September	J&J	380,000	MCF Via Avax	
October	J&J	345,600	EU Via Covax	
November	J&J	129,600	Covax	
November	Sinopharm	600,000	China Government	
December	J&J	532,800	Covax	

Targets and Strategies

Targets

- Health care workers reached using a fixed strategy at their respective health facility
- >60yrs and Comorbidity used combination of fixed and mobile strategy
- General population: ≥12 years

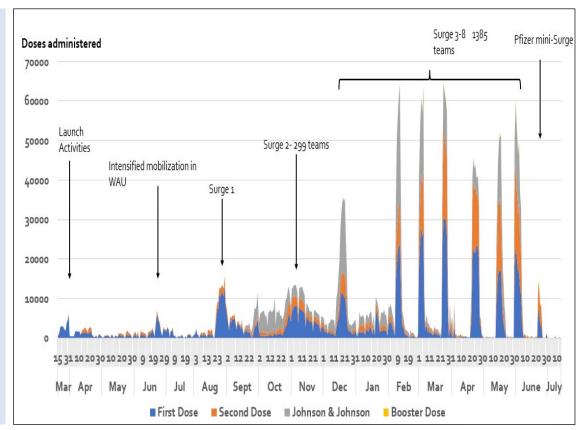
Strategies

- ✓ Static vaccination sites at PHUs: 724
- ✓ Outreach vaccination sites: 589
- ✓ Mobile vaccination sites: 72



COVID-19 Vaccination Performance/Updates

- As of July13, 2,644,898 Individuals have received at least one dose giving coverage of:
 - 47.2% of target population >12 years
 - 31.2 % of total population
- 1,917,378 people are now fully vaccinated
 - **34.2** of target population
 - o 22.6% of total population
- 72.5% (1,917,378/2,644,237) of all individuals with at least one dose are fully vaccinated





Best practices - Logistics and Supply Chain

- Used Covid-19 as an opportunity to mobilize resources to strengthen cc systems at all levels
- Use of WhatsApp platform for stock reporting
- Inter and intra distribution of vaccines
- Development of COVID-19 vaccine distribution plans at the national level.
- Weekly physical counts and reporting
- Integration of supply delivery of both routine and Covid-19 vaccines.
- Use of eSMT at central and in some districts.
- Covid-19 SoPs developed including RI services.



Support to NLTWG

- Support the development of vaccine distribution plans (Covid-19 and RI vaccines)
- Support the development of SOP on effective management, including Pfizer and training on the SOPs.
- Support the training and supervision of health staff on the eSMT
- Support to forecast both Covid-19 and RI vaccines
- Continue to provide support on overall ISCM (CCCA & EVMA)



Covid-19 Vaccine Expiry Tracking

- Regional vaccine management Consultants
- Establishment of WhatsApp forum for transmission of stock data
- Weekly meetings on effective stock management
- Weekly physical count of stocks
- Use of tracking tool and eSMT
- Weekly Covid 19 TWG meetings (Thursday)



Covid-19 vaccine Expiry tracked in Sierra Leone Wk 27

Vaccine type	Quantity Received	Batch Number	Expiry date	Quantities (Doses) Expired
AstraZeneca	100800	AB0020	30-11-2021	6,000
	41760	ABZ6248	30-11-2021	14,500
	42240	PW40026	30-11-2021	350
	100800	NO ₅₂ A	16-06-2022	1,250
	148800	210549	31-03-2022	740
	650400	NM0223	30-04-2022	41,500
				64,340
Pfizer	113,490	31055BD	31-01-2022	13,002
	290,160	FJ8759	30-06-2022	16,206
	54,990	37096CD	30-09-2022	2,000
	145,080	37100CD	30-09-2022	1,636
				32,844
Total				97,184



Sierra Leone: iSC challenges

- Vaccines received with a short shelf- life span
- Challenge in obtaining timely Covid-19 vaccine stock data
- Lack of CCE in some PHUs-inadequate storage space
- Inadequate infrastructure (ageing and dilapidated) to accommodate cold chain equipment in some district
- Inadequate number and skilled health workforce for effective stock management especially at PHU level



Sierra Leone: iSC Mitigations

- Recruit, deploy and monitor more vaccination teams to speedily utilize vaccines nearing expiration
- Country office mobilizes resources to conduct frequent Covid-19 vaccine surges to increase coverage and reduce vaccine expiration
- Use of WhatsApp platform for rapid vaccine stock update in the district
- Inter and intra-redistribution of vaccines in the districts
- Mobilized resources to procure more CCEs
- Rehabilitation/Expand district vaccine stores
- Train and monitor the health staff on effective stock management and covid-19 vaccine tracking.
- Weekly Covid-19 Stock balanced reporting from the sub-national level
- Strong National Technical Working Group (TWG) as the logistics pillar monitored the Covid-19 vaccines
- Development of COVID-19 vaccine distribution plans at the national level.
- Integration of supply delivery of both routine and Covid-19 vaccines.
- Use of eSMT and rollout of such tool at the district level to increase stock visibility.



Thank you

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Questions & Answers