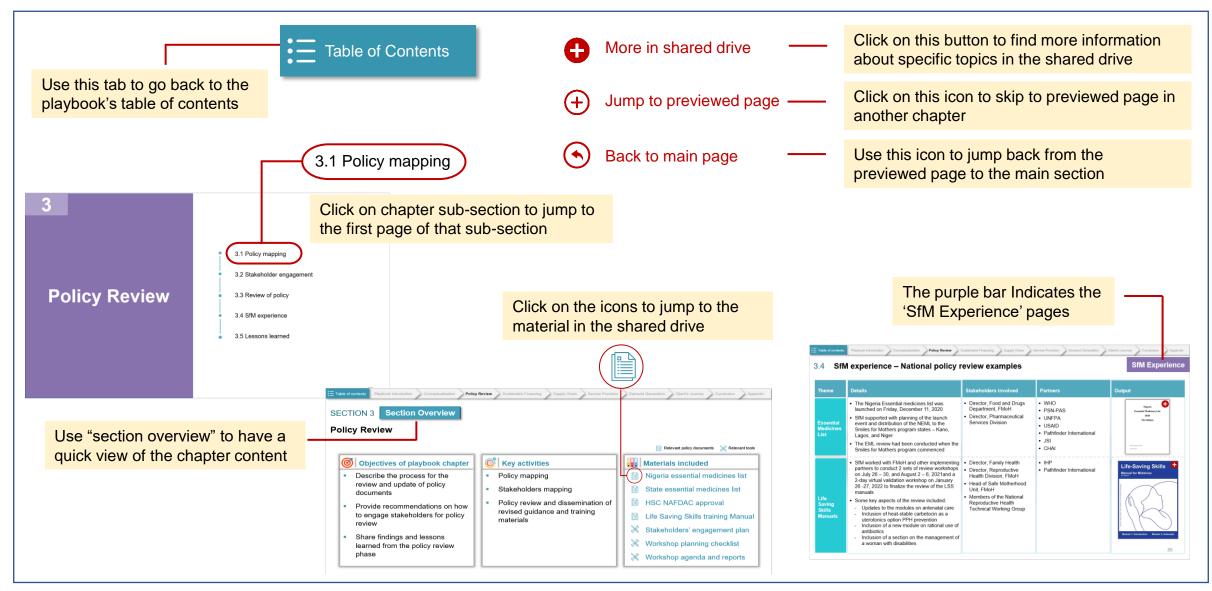


Reducing Postpartum Haemorrhage through Service Delivery and Supply Chain Innovations



Playbook navigation guide



Foreword



Postpartum haemorrhage (PPH) accounts for approximately 22% of maternal deaths in Nigeria. Over the years, the Federal Government has taken critical steps to improve maternal health outcomes, including the formation of a 34-person task force and publication of a roadmap on "Accelerated Reduction in Maternal Mortality in Nigeria" to drive the achievement of the SDGs' maternal health targets. While these interventions have yielded results, more efforts are required to address key drivers of PPH-related mortality, if Nigeria is to contribute to the global push to reduce maternal mortality ratio to less than 70 deaths per 100,000 live births by 2030.

In December 2020, the Federal Ministry of Health updated its Nigeria Essential Medicine List in line with the updated WHO Essential Medicine List and recommendations on the use of uterotonics for PPH prevention. This update included the introduction of a new uterotonic entrant, heat-stable Carbetocin, for the prevention of PPH. Heat-stable carbetocin is a viable option for countries like Nigeria, where poor power supply and weak cold chain infrastructure, especially at the last mile of the supply chain, pose a threat to the quality of heat-sensitive commodities.

With funding from MSD for Mothers, the Smiles for Mothers program supported the Federal Ministry of Health and Kano, Lagos, and Niger States in adopting the updated WHO recommendations. The program also supported the state governments' efforts to improve the clinical care and appropriate use of uterotonics, and strengthen the supply chain for uterotonics through training and mentoring of health workers and logisticians, respectively, and in addition, supported demand generation for facility-based antenatal services and delivery, through the deployment of patient literacy materials.

This playbook provides a comprehensive account of the Smiles for Mothers program achievements and lessons learned in the rollout of the WHO recommendations in Kano, Lagos, and Niger States, Nigeria.

We all have a role to play in ensuring that no woman dies while giving life. It is hoped that the lessons from the program outlined in this playbook will help sustain the gains in the pilot states and, more importantly, provide much-needed guidance for other states in Nigeria to tow the same path and rapidly reduce PPH-related maternal mortality and morbidity.

Dr. Osagie Ehanire. MD. FWACS
Hon. Minister of Health
Federal Republic of Nigeria

Acknowledgement



The Federal Ministry of Health acknowledges the invaluable efforts of the Smiles for Mothers consortium, led by the Solina Centre for International Development and Research (SCIDaR) and its consortium partners, Clinton Health Access Initiative (CHAI) and Co-Creation Hub (CcHUB) in contributing to the ongoing efforts of government to reduce maternal mortality in Nigeria. We especially appreciate MSD for Mothers for their financial and technical support for this and other initiatives that may have significant impact on saving the lives of Nigerian mothers.

Kano, Lagos, and Niger state governments deserve special recognition for taking the lead on this innovation. The ministry also recognizes and appreciates other implementing partners, as well as my team at the safe motherhood branch and reproductive health division, who have made significant contributions to the effort to reduce postpartum hemorrhage in Nigeria.

Dr. Boladale Alonge Director and Head, Family Health Department Federal Ministry of Health

About the Playbook

Rationale and purpose of the SfM Playbook

Objectives





To serve as a reference tool for the adoption and rollout of the WHO recommendations on uterotonics for the prevention of PPH; including the introduction of heat-stable Carbetocin.



The playbook will also share the experiences, achievements and lessons learned from Smiles for Mother's journey rolling out the WHO recommendations in Kano, Lagos and Niger states, Nigeria.

Guidance on its use

- The playbook is not intended for use as a narrative document and read cover to cover. Rather, it is designed as a reference
 resource that users can interact with to obtain specific pieces of knowledge and tools to facilitate the adoption and
 rollout of the WHO recommendations and introduction of HSC
- It is not a policy statement to layout or enforce a specific policy direction. Instead, it represents a framework of what is critical to think about for successful adoption of the WHO recommendations. The content will not be a firm prescription for any specific course of action
- The framework the playbook provides can however be used to guide the adoption and rollout of other guidelines and introduction of new products

About the Playbook

Primary audience for the SfM Playbook

✓ Most critical
✓ Also helpful

			Relevant Chapters in the Playb					Playbo	ok
Audience	Who should use the playbook?	How will the playbook contribute to their efforts to improve maternal health outcomes?	Conceptuali	Policy Review	Sustainable Financing	Supply Chain	Service Provision	Demand Generation	Client's Journey
Policy makers	 Principal officers across: State Ministries of Health, HMBs, SPHCDAs, and DMAs in Nigeria National and Provincial Health Ministries and Agencies in resource-limited settings 	 Policy makers are leading efforts to contextualize, disseminate and drive adoption of WHO's updated guidelines on use of uterotonics for PPH prevention This playbook provides useful content to guide planning, policy reviews, and resource mobilization 	~	✓	~	√		√	· · · · · · · · · · · · · · · · · · ·
Program managers	 Reproductive and maternal health program managers across: State Health MDAs in Nigeria National and provincial health ministries and agencies in resource-limited settings 	 Program managers are uniquely placed to lead the transition from policy to operational planning and implementation. This playbook provides step-by-step guidance while sharing real field experiences on the implementation of the guidelines on use of uterotonics for PPH prevention 	✓	✓	√	✓		~	,
Donors	 Principal officers, country managers, maternal health portfolio managers, and technical officers 	 Donor agencies seeking to make investments that advance maternal health outcomes in a sustainable way will find the playbook useful in shaping country thinking around priority investments to integrated PPH interventions 	V	✓	√	√		~	· · · · ·
Implementing partners	 Principal officers, country managers, maternal health portfolio managers and technical officers 	 Implementing partners are providing technical support as well as supporting governments to directly execute high-impact maternal health interventions. This playbook provides clear guidance on designing and executing integrated PPH interventions and is applicable to most resource-limited settings 		✓	✓	✓		\	6

About the Playbook

Types of pages



Section Overview

Section overview pages appear at the beginning of each playbook section and describe key objectives and activities for the section



General Guidance

These pages will detail the process and general guidance (including tools, frameworks, recommended approaches, technical resources, etc.) to guide the roll-out of new uterotonics for PPH prevention and other similar innovations



SFM Nigeria Experience

These pages are SfM implementation examples in program states, including links to tools, frameworks and other relevant documents. They will serve as a reference to help other states as they complete similar activities



Lessons Learned

These pages include lessons learned from the implementation of the Smiles for Mothers program in the three program states, Kano, Niger, and Lagos

Glossary

Acronym	Full meaning	Acronym	Full meaning
ADR	Adverse Drug Reaction	MPDSR	Maternal and Perinatal Death Surveillance and Response
AMTSL	Active Management of Third Stage of labour	NAFDAC	National Administration of Food and Drugs Administration and
ANC	Antenatal care		Control
CcHub	Co-Creation Hub	NEML	National Essential Medicines List
CHAI	Clinton Health Access Initiative	NPSCMP	National Product Supply Chain Management Program
CRRIF	Combined Requisition Report and Issue Forms	PPH	Postpartum Haemorrhage
EmONC	Emergency Obstetric and Newborn Care	QoC	Quality of Care
FMoH	Federal Ministry of Health	SCIDaR	Solina Center for International Development and Research
HCD	Human Centered Design	SDG	Sustainable Development Goal
HMB	Hospitals' Management Board	SDRF	Custoinable Drug Bayalving Fund
HSC	Heat-stable Carbetocin	SUKF	Sustainable Drug Revolving Fund
LMCU	Logistics Management Coordination Unit	SEMLs	State Essential Medicines Lists
LSS	Life Saving Skills	SfM	Smiles for Mothers
MMR	Maternal Mortality Ratio	SOGON	Society of Gynaecology and Obstetrics of Nigeria
MoU	Memorandum of Understanding	WHO	World Health Organization

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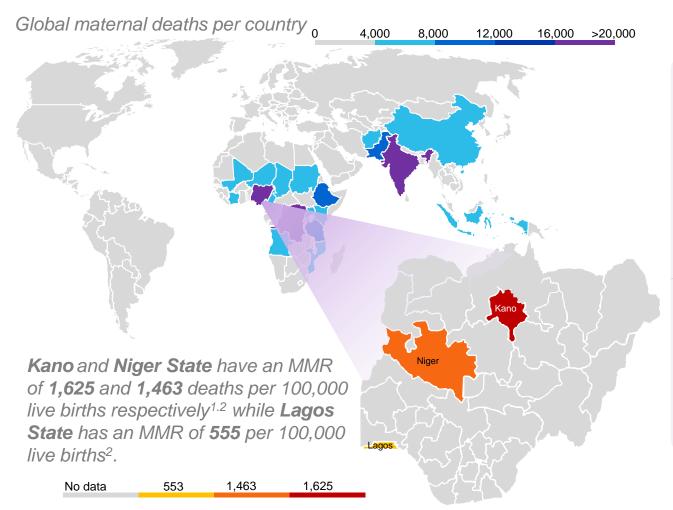
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Playbook Introduction

- 1.1 PPH context in Nigeria
- 1.2 PPH survivor story
- 1.3 Overview of WHO recommendations on use of uterotonics for PPH prevention
- 1.4 SfM implementation framework

1.1 PPH Context in Nigeria

Nigeria is among countries with the highest burden of maternal deaths worldwide, with postpartum haemorrhage as the leading cause



19% Global maternal death toll in Nigeria³



512 Maternal deaths per 100,000 live births4



Maternal deaths in Nigeria due to post-partum haemorrhage⁵



In recent years, the Federal Government of Nigeria has taken critical steps to improve maternal health outcomes in the country like the 34-person task force on "Accelerated reduction on maternal mortality in Nigeria" in 2017 which acknowledged that postpartum haemorrhage (PPH) is the leading cause of maternal mortality in Nigeria.

^{1.} YAR'ZEVER S. Ibrahim, "Temporal Analysis of Maternal Mortality in Kano State, Northern Nigeria: A Six-Year Review." American Journal of Public Health Research, vol. 2, no. 2 (2014): 62-67. doi: 10.12691/ajphr-2-2-5.

2. Federal Ministry of Health, Nigeria. 2015. Regional variations in maternal mortality ratio in Nigeria.

World Health Organization. Sexual and Reproductive Health. Maternal Health in Nigeria: generating evidence for action. Available from: https://www.who.int/reproductivehealth/maternal-health-nigeria/en/. Accessed June 19, 2020.
 Nigeria Demographic Health Survey 2018 indicators report

Federal Ministry of Health, Nigeria, 2019. Roadmap for the Accelerated Reduction of Maternal and Neonatal Mortality

many a designation of the second delice

Appendix

1.2 PPH Survivor Story

The devastating effect of postpartum haemorrhage on the family and society is a price too high to bear



Folakemi's Story

- 21-year old Folakemi was brought into the facility 2 hours after the delivery of her first child. Her labour was prolonged and the baby was also in distress. She was brought in due to continued heavy bleeding. The doctors hurriedly took her to the theater and had to perform a hysterectomy to save her.
- Folakemi was distraught to have nearly experienced death and sadly had her uterus removed at such a young age.
- The family's sadness over having lost the baby boy was even more acute upon realization that she would never have another baby again.



1.3 Overview of WHO recommendations on use of uterotonics for PPH prevention

The CHAMPION trial was instrumental in inclusion of heat-stable Carbetocin as a newly-recommended Uterotonic by the WHO

What was the **CHAMPION trial?**



A randomized clinical trial conducted to research non-inferiority of HSC for the prevention of postpartum haemorrhage during the third stage of labour

Partnerships

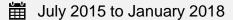
An international panel of stakeholders was tasked with investigating if HSC is non-inferior to Oxytocin to consider changing guidelines to include use of HSC in preventing PPH







Implementation





10 countries (Including Nigeria)



Enrolled about 30,000 women across 23 sites



Randomized, double-blind, non-inferiority trial

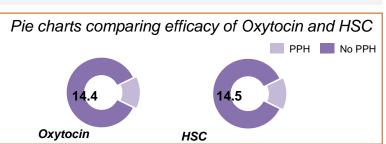


 $\triangle \triangle$ Comparing injections of HSC (100 µg) with Oxytocin (10 IU) administered immediately after vaginal birth

Results



Heat-stable Carbetocin was noninferior to Oxytocin for the prevention of blood loss of at least 500 ml or the use of additional uterotonic agents



The opportunity:



WHO's revised recommendations and essential medicines list introduced Carbetocin (heat-stable formulation) as a new option for reducing PPHrelated deaths in settings where the quality of oxytocin (the gold standard for PPH prevention), cannot be guaranteed.

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1.4 SfM implementation framework

SfM builds on the Government of Nigeria's efforts to reduce maternal death due to PPH through human-centered design

Objectives of the Smiles for Mothers Program

1

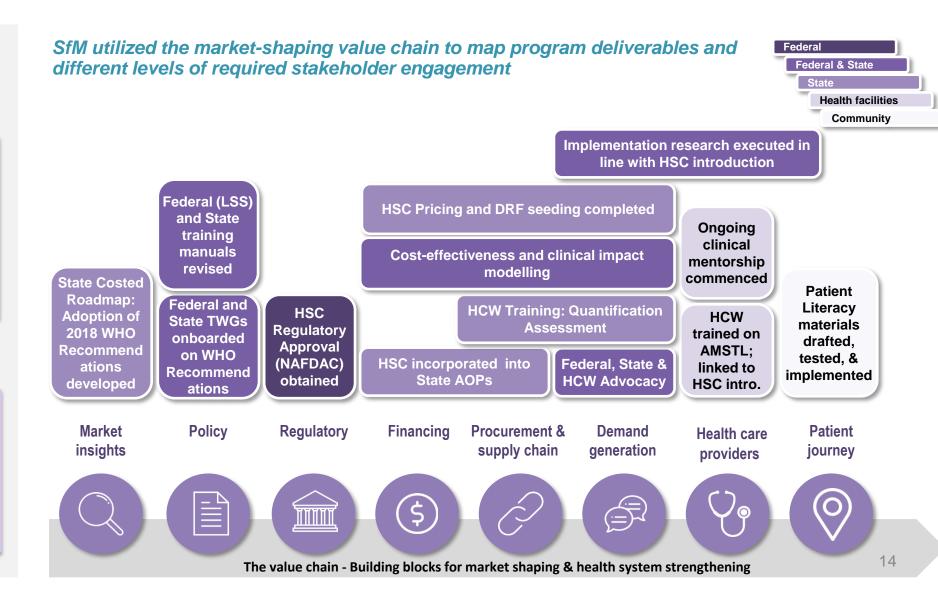


To support Kano, Lagos, and Niger states to implement costed roadmap for the adoption and roll-out of medicines aligned with WHO's recommendations on uterotonics for the prevention of postpartum haemorrhage

2



To support the three states to apply human-centred Design (HCD) principles to develop costed roadmaps for up to two additional innovations to improve access to optimal uterotonics and PPH management



Conceptualization

- 2.1 Landscape analysis and conceptualization
- 2.2 Costed roadmap development
- 2.3 Lessons learned

SECTION 2

Section Overview

Conceptualization



Objectives of playbook chapter

- Describe the process to understand the correct state context and situation using the HCD approach
- Share the key activities involved in the roll-out of a new innovation and the need to develop a costed roadmap
- Share lessons learned from SfM's experience in using HCD to develop an innovation for rolling out a new guideline



Key activities

- Landscape analysis and conceptualization
- Development of roadmap



Relevant documents





Materials included





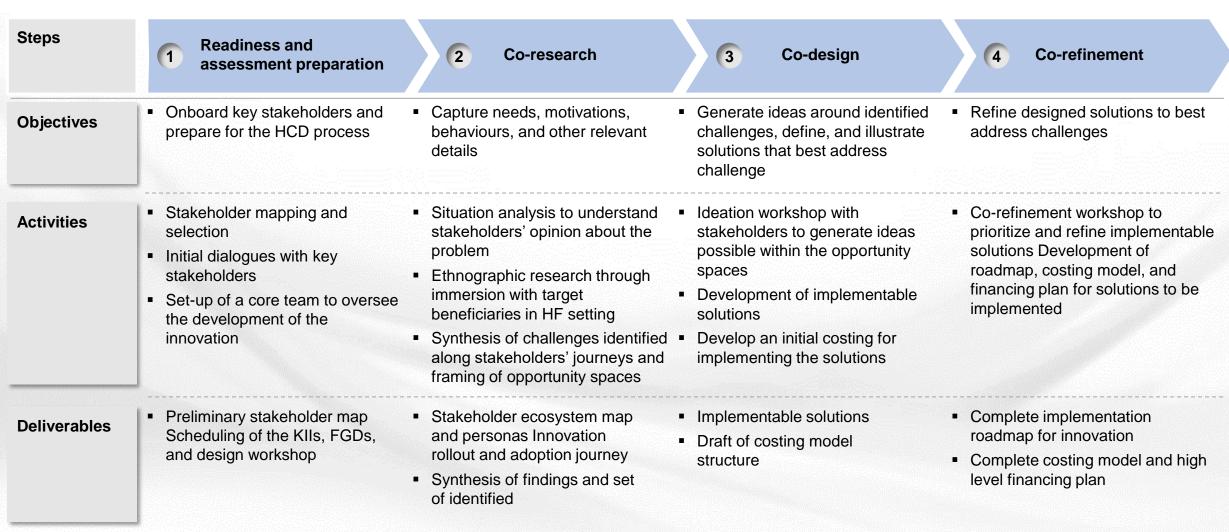


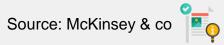
Conceptualization report

Costed roadmap quide/template

2.1 Landscape analysis and conceptualization

The HCD approach can be used to develop innovations for rolling out the WHO guidelines





HCW survey

SfM Experience – Readiness assessment and preparation 2.1

SfM Experience

During the project, we extensively leveraged multiple sources of insights including semi-structured interviews, HCD immersion, surveys, and document reviews

Key sources of insights

38 semi-structured interviews with health system stakeholders across the 3 states

25 state government officials in SMOH, State Primary Health Centre Development Agency (SPHCDA) and Hospitals Management Board (HMB)

3 RMNCH experts (i.e. Society of Gynaecology and Obstetrics of Nigeria (SOGON) and academic medical training centres, e.g. College of Medicine, University of Lagos

10 donors and implementation

partners

involved in RMNCH, e.g. CHAI, Africare, Evidence for Action (MamaYe), UNFPA, **HSDF**



68 immersions with HCWs, mothers and their influencers across 12 LGAs

37 skilled HCWs: 12 doctors, incl. 3 specialists, 12 nurses/midwives, 7 community health workers, 6 pharmacists

14 unskilled HCWs: 11 traditional birth attendants (TBAs), 2 PPMV/chemists, 1 village health worker

8 mothers: 2 with history of TBA delivery only, 2 with history of both TBA/home and HF delivery, 4 with history of HF delivery only

9 influencers: 3 husbands, 3 religious leaders, 3 community leaders



76 HCWs scanned in Lagos and Abuja through online and manual surveys (incl. 14 doctors, 51 nurses/ midwives, 2 CHWs and 3 programme coordinators)

60+ recent reports: e.g. demographics studies, healthcare infrastructure assessment

Document review













Project kick-off document

Source: McKinsey & co



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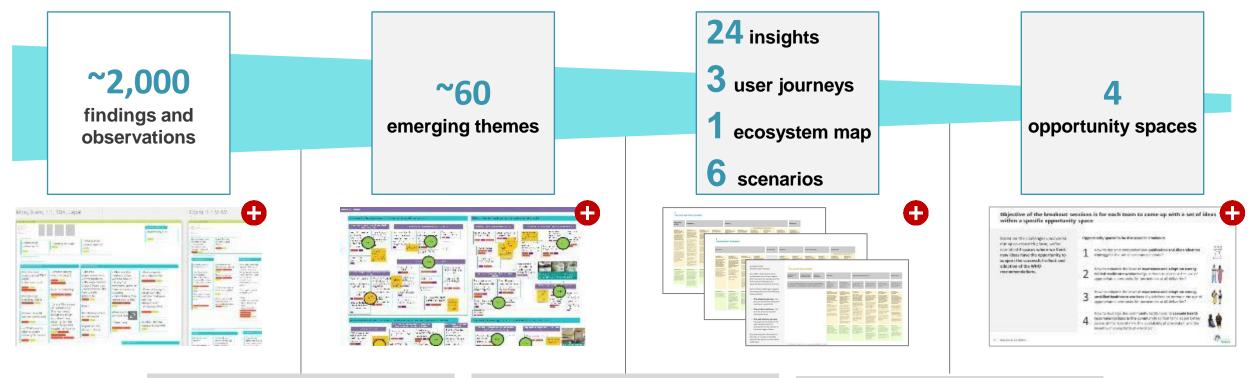
Conclusion

Appendix

2.1 SfM Experience – Co-research phase

SfM Experience

2,000 findings and observations from co-research were synthesized to identify 4 opportunity spaces



Clustering

Clustering was used to map findings and observations in a way that patterns and themes were easily identified

Synthesis

It provided visual representation of the tensions in the patterns, allowing us to generate holistic ecosystem maps, user journeys, scenarios, and insights

Opportunity spaces identification

Insights generated were distilled and used to identify **opportunity spaces.** In the co-design phase, users ideated around these opportunity areas to identify **potential solutions**

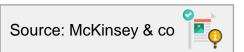


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SfM Experience – Co-design phase 2.1

SfM Experience

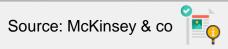
Ideas were then distilled to identify a final set of 17 implementable solutions to be tested with stakeholders in each state



During the co-creation workshop, >300 ideas were co-created with stakeholders around 4 prioritised opportunity areas

The 300+ ideas were clustered into themes to identify which solutions resonated most with stakeholders

The most important features of multiple ideas were filtered and consolidated into implementable solutions



2.1

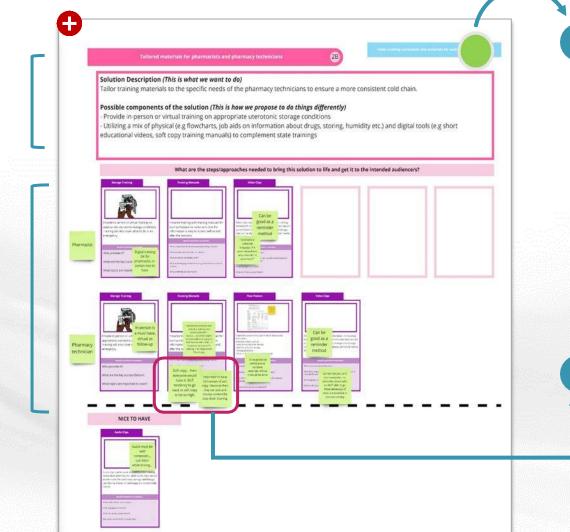
SfM Experience – Co-refinement phase

SfM Experience

During the co-refinement workshop, state stakeholders refined the prioritized solution to increase their impact, integrate into existing efforts in the state and facilitate their implementation

2 Each group focused on 1 solution at a time to understand the scope of the solution

3 Solution components were organised into 'must haves' vs. 'nice to haves'



1 Initial prioritisation done in plenary was noted on each sheet

In breakout groups, we encouraged state stakeholders to refine prioritised solutions with an eye towards implementation and building on existing initiatives in the state

The groups then worked through a set of questions for each solution component to capture the required steps/ information to make them implementation ready

2.2 Costed road map development

There are specific cost assumptions that need to be considered for policy adoption

Area	Cost items	Description	Assumptions
Policy adoption	Meetings and workshops	 Number and typical length of meetings/workshops required to localise national guidelines, conduct literature view, consult experts, define implementation roadmap Cost per meeting, depending on the number of participants 	 Unit cost per participant assumed for all meetings and workshops split between: Fixed cost (e.g. meeting venue – assumes meetings are in person) Variable depending on number of participants (e.g. per diems)
	Material publication and dissemination	 Number of items (guidelines, job aids, posters, tools) needed for each type of support, depending on HF coverage Cost per item: design, printing, distribution 	 Currently assuming all materials are printed (vs. videos); thus, distribution costs incurred
	Training	 Number of persons trained for each profile Number of training sessions required per trainee Cost per training per trainee, depending on the profile 	 Minimum number of trainees for each HCW profile per facility type to be chosen by the states Currently assuming only 1 training session per trainee for dissemination
	Periodic review (MNE)	 Number of follow-up visits per facility Cost per visit 	 2 visit per facility per year to monitor implementation Currently assuming all covered facilities are followed-up on





2.2 Costed roadmap

There are specific cost assumptions that need to be considered for commodities supply

Area	Cost items	Description	Assumptions
Commodities supply	Volume of uterotonics	 Number of units to be ordered and delivered for each uterotonic, forecasted under state's preferred option: Needs-based forecasting: total deliveries in covered facilities, share of deliveries using uterotonics, target product mix, WHO-recommended dosage Historical data: projection based on historical orders for each uterotonic State forecasting (to be inputted by the state) 	 2.67% CAGR for number of deliveries, according to 2010-19 national CAGR (World Bank data) Use of uterotonics for 100% of in-facilit deliveries Dosage per delivery as per WHO recommendations
	Cost per unit	 Included costs: Procurement based on a benchmark of average cost per dose (excluded for DRF) Transportation, standards vs. cold chain (included for last mile delivery only) 	 Procurement based on UNFPA and WHO benchmarks Transportation costs: Standard Cold chain
		 Costs that are not currently included in the model: Procurement based on a benchmark of average cost per dose (excluded for DRF) Transportation, standards vs. cold chain (included for last mile delivery only) 	- Cold Chair

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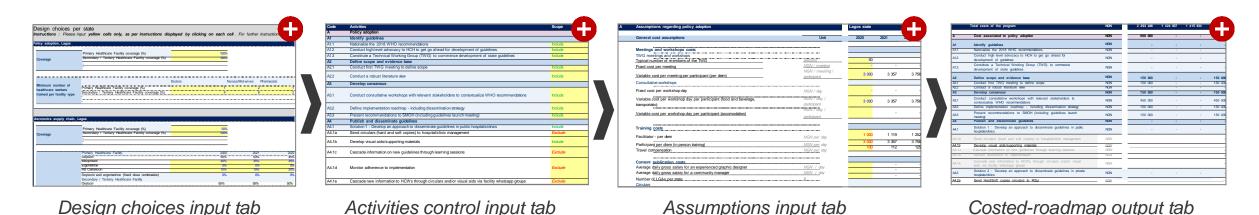
Conceptualization

Policy Review

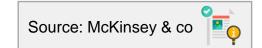
2.2 SfM Experience – Costed road map-state sample

SfM Experience

A costed roadmap was developed for each state to inform states' implementation decisions on the innovative solutions to support at-scale rollout and adoption of the WHO recommendations



- The purpose of the costed roadmap was to estimate incremental costs associated with the rollout and adoption of the 2018 WHO recommendations for the prevention of postpartum haemorrhage in Lagos, Kano, and Niger, in the context of the Smiles for Mothers Project.
- Costing for these different elements was built around two components: policy adoption and uterotonics supply chain.
- The implementation plan outlines the high-level steps/activities needed for the successful introduction and adoption of the 2018 WHO recommendations in each state (with a sharper focus on the introduction of heat-stable carbetocin)
- The roadmaps covered a two-year period, starting 2020, per the timeline of the Smiles for Mothers Project.



2.3 Lessons learned

- A diverse set of stakeholders plays a role in the contextualization, dissemination, and application of the WHO recommendation on uterotonics for PPH prevention.
 - The successful implementation of the updated WHO guidelines is dependent on the support and inputs of three groups of stakeholders: the federal and state health care governance systems (e.g., FMoH, SMoH, donors, etc.); health workers (e.g., skilled and unskilled health workers) at various levels of care; and communities (pregnant women, relatives, and friends)
 - There is a need to ensure strong stakeholders' participation to help understand their perspective on the problem as well as their ideas to address the identified gaps
- State governments need to develop a robust plan/roadmap that captures the end-to-end process for the roll-out of the updated WHO guidelines and ensure that the plan is captured in the state's annual operational plan for quick implementation.
 - A robust plan is essential to determine the cost implications of the roll-out of a new guideline
- HCD offers new capabilities and enhances existing capabilities for various stakeholders by equipping teams with new tools
 and methods to understand users, collaborate, and develop new interventions more efficiently
 - A key part of the Smiles for Mothers initiative is to strengthen the national/subnational capacity to use human-centred design (HCD) to plan for the introduction of innovations
 - Partner and donor organizations need to help reinforce the need to always use the human-centered design approach in designing health innovations

Policy Review

- 3.1 Policy mapping
- 3.2 Stakeholder engagement
- 3.3 Review of policy
- 3.4 Lessons learned

SECTION 3

Section Overview

Policy Review



Objectives of playbook chapter

- Describe the process for the review and update of policy documents
- Provide recommendations on how to engage stakeholders for policy review
- Share findings and lessons learned from the policy review phase

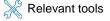


Key activities

- Policy mapping
- Stakeholders mapping
- Policy review and dissemination of revised guidance and training materials



Relevant policy documents Relevant tools





Materials included



Nigeria essential medicines list



State essential medicines list



HSC NAFDAC approval



Life Saving Skills training Manual

Policy mapping – Identifying the relevant policy document for review

Identify normative policy updates to secure a conducive environment for the implementation of a new guideline/product

Key questions to help identify the relevant policies required for the adoption of a new guideline/commodity:



What national policies/guidelines are required to facilitate the adoption and utilization of a new commodity in Public Health Facilities at all levels?

Provides the foundation for national and sub-national level adoption of the updated guidelines and use of the new commodity

What sub-national/ state-level guidelines/policies are required for the adoption and utilization of a new product?

 Creates the opportunity to address local context needs that may differ from the national policies



What clinical care and treatment protocols need to be updated to allow the use of a new product?

- Facilitates the update to health care worker training materials to include new treatment protocols for different health conditions
- Authorizes the treatment of patients with new innovations in line with global best practices

3.1 Policy mapping – List of revised policy documents

The Smiles for Mothers program team identified the levels of approval required and the relevant documents to review

Category	Title	Description	Rationale
Regulation	Regulatory approval from NAFDAC	 This is an approval from the National Agency for Food and Drugs Administration Control (NAFDAC) for the importation and use of new uterotonic entrant recommended, heat-stable Carbetocin in Nigeria 	 To guarantee that heat-stable Carbetocin meets the criteria for good manufacturing practices and contains safe pharmaceutical ingredients and excipients
Policies	 Nigeria Essential Medicines list State Essential Medicines list 	 These are list of essential medicines that satisfy the priority health care needs of a population They are selected with due regard to disease prevalence and public health relevance, evidence of efficacy and safety and comparative cost-effectiveness 	 To ensure the WHO recommended uterotonics are prioritized for procurement by the state governments and donor organizations
	 National standard treatment guidelines 	 This is a guide to help clinicians provide more consistent diagnosis and treatments and limit the irrational use of medicines 	
Training materials	Life Saving Skills Manuals	 These are essential training materials for healthcare workers designed and structured around the leading causes of maternal mortality and the delivery of basic and comprehensive emergency obstetric care. 	 To drive use of WHO recommended uterotonics among clinicians as approved options for PPH prevention

3.2 Stakeholder engagement – stakeholders' mapping

It is important to ensure strong participation of all relevant stakeholders in the policy review process

					1
National	State	LGA	HF/Communities	Partners	
Essential Medicines List re	eview				
 Director, Food and Drugs Department FMoH Director, Pharmaceutical Services Division, FMoH National Product Supply Chain Management Program (NPSCMP) 	 Heads of Drugs Management Agencies Heads of Pharmaceutical Services, SMoH, SPHCDA, and HMB State Logistic Management Coordination Unit coordinators 	Essential Drugs Officers	 Pharmacists Pharmacy technicians/drug officers 	 Donor Organizations Multilateral partner organizations Implementing partners Civil society organizations 	Sample engagement materials Introduction letter including a 2-pager brief on the Smiles for Mothers program intervention letter PowerPoint
Life Saving Skills Manuals	review				presentation on the Smiles for the
 Director, Family Health Department, FMoH Director, Reproductive Health Division, FMoH Executive Secretary, NPHCDA Director Community 	 Directors, Family Health Department, SMoH, SPHCDA, and HMB or its equivalent Directors, Reproductive Health Coordinator, SMoH 	-	 Chief Medical Directors Chief nursing officers and matrons Mothers 	 Donor Organizations Multilateral partner organizations Implementing partners Civil society organizations 	Mothers efforts
Health Services, NPHCDA					30

3.2 Stakeholder engagement – coordination meeting with relevant stakeholders

Meet with critical stakeholders prior to initiating discussion on the policy review and align on how to collaborate

Focus	Government	Development Partners
Examples of stakeholders	State Ministries of HealthDrugs Management Agencies	Donor organizationsImplementing partners
Engagement Objectives	 Obtain buy-in from leadership for the review Align on policy to be reviewed and resources to conduct review Agree on a workplan to conduct the review and schedule review workshops and agree on Leadership support for review 	 Obtain commitment to support review process Align on specific role for partner organization and frequency of touch points
Engagement format	 Introductory meeting One-on-one interviews Standing maternal health technical working group Targeted stakeholder workshops 	p meeting

3.3 Policy review process

There are six steps to reviewing and disseminating a policy document

There are six steps to reviewing and disseminating a policy document							
(1	Planning	Desk review	Review with experts	4 Refinement	5 Validation	6 Dissemination	
Details	 Conduct planning meeting with relevant stakeholders to: Align on the process for the review Identify the needed resources for the review process 	 Conduct desk review to identify the gaps in the current policy documents, in line with global guidance 	Conduct review meeting with subject matter expert to provide guidance for update, in line with the national and state context	 Adopt edits and recommendations from the review workshop Develop updated version of policy document 	 Conduct validation meeting of the revised policy document Receive official approval from government and stakeholders 	 Disseminate the validated policy document to the target users across all levels using: Launch meetings Ongoing physical and electronic document sharing 	
Input	 Proposal for review meeting, including the list of the relevant documents to be reviewed 	 Current version of the policy documents Global guidance e.g. WHO guidelines on the use of uterotonics for PPH prevention 	 List of gaps in the current policy documents Current version of the policy documents Workshop materials 	 Recommendations from the review workshop Current version of the policy document 	Revised policy documents	■ Final version of the revised policy	
Output	 Review process workplan and checklist Workshop agenda Workshop participant list 	List of gaps in the current policy documents	 Review workshop report Recommendations for update 	 Revised policy documents 	Final version of the revised policy documents	 Published copies of the revised documents (hardcopies and e- copies on MDS website) 	

It is necessary to capture critical costs such as cost for recruitment of content specialists, funding for meetings, printing and production and dissemination required for the policy review process

3.3 SfM experience – National policy review examples

SfM Experience

Theme	Details	Stakeholders involved	Partners	Output
Essential Medicines List	 The updated Nigeria Essential medicines list was launched on Friday, December 11, 2020 SfM supported with planning of the launch event and distribution of the NEML to the Smiles for Mothers program states – Kano, Lagos, and Niger The EML review had been conducted when the Smiles for Mothers program commenced 	 Director, Food and Drugs Department, FMoH Director, Pharmaceutical Services Division 	 WHO PSN-PAS UNFPA USAID Pathfinder International JSI CHAI 	Nigeria Essential Medicines List 2020 7th Edition
Life Saving Skills Manuals	 SfM worked with FMoH and other implementing partners to conduct 2 sets of review workshops on July 26 – 30, and August 2 – 6, 2021 and a 2-day virtual validation workshop on January 26 -27, 2022 to finalize the review of the LSS manuals Some key aspects of the review included: Updates to the modules on antenatal care Inclusion of heat-stable carbetocin as a uterotonics option PPH prevention Inclusion of a new module on rational use of antibiotics Inclusion of a section on the management of a woman with one or more disabilities 	 Director, Family Health Director, Reproductive Health Division, FMoH Head of Safe Motherhood Unit, FMoH Members of the National Reproductive Health Technical Working Group 	 IHP Pathfinder International 	Manual for Midwives An Edition Module 1. Introduction Module 2. Antenatal

3.3 SfM experience – State policy review examples

SfM Experience

Theme	Description	Stakeholders involved	Partners	Output
Essential Medicines List	 SfM provided both technical and financial support for the review, validation and dissemination of the State EMLs. Kano state revised its EML on May 17 - 19, while Niger revised its EML on June 14 – 22, 2021 Lagos state decided to adopt the NEML 	 Director, Pharmaceutical Services, SMoH and other agencies Executive Directors, Drugs Management Agencies Directors of Drugs Essential Drugs officers LMCU coordinators Food and Drugs Department, FMoH Director Pharmaceutical Services Division 	 LAFIYA program Clinton Health Access Initiative 	MIGER STATE ESSENTIAL MEDICINES LIST MIGER STATE ESSENTIAL MEDICINES LIST MIGHT STATE MEDICINES LIST MIGHT STAT
Life Saving Skills manual	 Kano and Niger state governments adopted the revised Life Saving Skills (LSS) Manual for capacity building of healthcare workers on Emergency Obstetric and Newborn Care (EmONC) in their states 	 Director, Family Health Director, Reproductive Health Division, FMoH Head of Safe Motherhood Unit, FMoH Members of the National Reproductive Health Technical Working Group 	■ NA	Manual for Midwives Module 1. Introduction Module 2. Antenatal

3.3 SfM experience – Photo grid from policy reviews and launch event

SfM Experience



Niger state stakeholders reviewing and updating the EML



Kano state stakeholders during the EML review and update



Launch of the EML following the update and validation in Kano state



Online participants at the LSS manual review in Abuja



LSS Manual review session led by FMoH



Launch of the EML following the update and validation in Niger state

3.4 Lessons learned

- Government ownership is essential for a holistic review of any guideline or document
 - Government needs to be actively involved in the review process to authenticate the review and also pave way for adoption at the lower levels
- Early buy-in of other implementation partners can help fast track the review process
 - Alignment with other partners will help avoid duplication of efforts and give room for synergizing efforts and resources to complete the review process faster
- The inclusion of subject matter expert from various fields is essential for a comprehensive review and update
 - The review committee needs to include relevant subject matter expert with a good understanding of the policies and implementation, to ensure the policy are easy to understand and use by the frontline health workers
- A desk review is essential to identify any supporting documents/policies and ensure alignment of the reviewed materials with all other existing related strategies, policies and guidelines
- Bureaucratic delays as a result of competing priorities necessitates proper planning and advocacy to the appropriate officers at the Ministry
 - There is a need to factor in possible delays that may arise due to conflicting priorities

Sustainable Financing

- 4.1 Resource mobilization
- 4.2 Development of investment case for uterotonics
- 4.3 Uterotonics forecast and costing
- 4.4 Lessons learned

SECTION 4

Section Overview

Sustainable financing



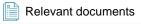
Objectives of playbook chapter

- Provide guidance for resource mobilization, including identifying sustainable health financing mechanism for uterotonics and other maternal health commodities
- Describe the forecasting and costing approaches for uterotonics and other maternal health commodities
- Share SfM's approach for strengthening the investment case for procurement of newly introduced uterotonics, e.g. HSC
- Share lessons learned from SFM's efforts to institute sustainable financing mechanisms for procurement of uterotonics and other maternal health commodities



Key activities

- Resource mobilization
- Investment case strengthening
- Uterotonics forecast and costing



vant documents 🥻 Relevant tools



Materials included



Forecast and Quantification Models





State specific roadmaps for sustainable financing

Table of contents Playbook Introduction Conceptualization Policy Review Sustainable Financing Supply Chain Service Provision Demand Generation Client's Journey

4.1 Resource mobilization

A sustainable financing mechanism must meet four (4) major criteria



Resilient

- Capacity to handle change and unexpected disturbances without compromising its ultimate objectives of providing funding for procurement of life-saving commodities
- Long-term dynamic capabilities to adapt to future trends like change in technology government/policies



Predictable and Consistent

- Sufficient and sustained source that is selfreplenishing and also effective for the needs of future generations
- Delivery schedule is adhered to by time interval and quantity of funds
- Example is state government's monthly allocation to health



Community-owned

- Participation and responsibility taken by the stakeholders in community towards financing health care running in given community
 - Such are programs that transitioned fully to being implemented and financed by community



Adequate

- Sufficient to meet the health commodity needs of the population in short, medium, and long term
- Seen when financing scheme meet health services and goods requirements of the population



Appendix

Template to categorize available financing mechanisms based on listed criteria



Sustainability is the ability of a health financing system to meet the health requirements of the entire present generation without compromising the needs of future generations¹.

Sources: 1. Health Financing Resilience During A Pandemic: Fifth Annual Health Financing Forum, Part 2. World Bank Blogs, 2020. Accessible on:https://blogs.worldbank.org/health/health-financing-resilience-during-pandemic-fifth-annual-health-financing-forum-part-2. Accessed 9 Oct 2021. 2. Smooth And Predictable Aid For Health: A Role For Innovative Financing?. Brookings, 2021, https://www.brookings.edu/research/smooth-and-predictable-aid-for-health-a-role-for-innovative-financing/. Accessed 9 Oct 2021. 3. Ownership of health financing policies in low-income countries: a journey with more than one path way. Joël Arthur Kiendrébéogo . 4.Health Systems Financing. Health care financing in Nigeria: Implications for achieving universal health coverage BSC Uzochukwu1,2,3, MD Ughasoro

Resource mobilization – Landscaping of a sustainable financing mechanism

There are 3 main activities involved in conducting a landscaping analysis for sustainable financing mechanism

Identify and map all available health financing mechanisms in the state and across health programs

- Conduct desk reviews and stakeholder engagements to identify different health financing mechanisms available in the state.
- Engage stakeholders and conduct additional desk reviews to identify:
 - Fund sources
 - Fund disbursement frequency
 - Medical services provided
 - Historical spending
 - Scope and coverage of Services

Assess the feasibility of using identified health financing options for procurement of Uterotonics

- Rank available funding sources according to:
 - Historical procurement of health commodities
 - Sustainability of its funding sources
- Assess sustainability of the streamlined funding sources to:
 - Determine if funds are dependent on donor or government sources
 - Determine regularity of fund disbursement

Propose actions to channel funds from the identified financing options for the procurement of Uterotonics

- Categorize prioritized health financing options based on current availability of funds to procure Uterotonics
 - Immediate term: Options that are readily available for procurement such as funding options managed by the State
 - Long term: Options whose funding is not immediately available such as new programs which are managed nationally and require long processes to access funds
- Identify innovative financing mechanisms and cost-reduction as additional levers to explore for procurement of commodities

Resource mobilization – Mapping of Health Financing mechanism

There are four main financing mechanisms for the procurement of essential medicines¹ in Nigeria

Out-of-pocket expenditure

Individual cash payment for drugs and medical services

Tax-based Revenue

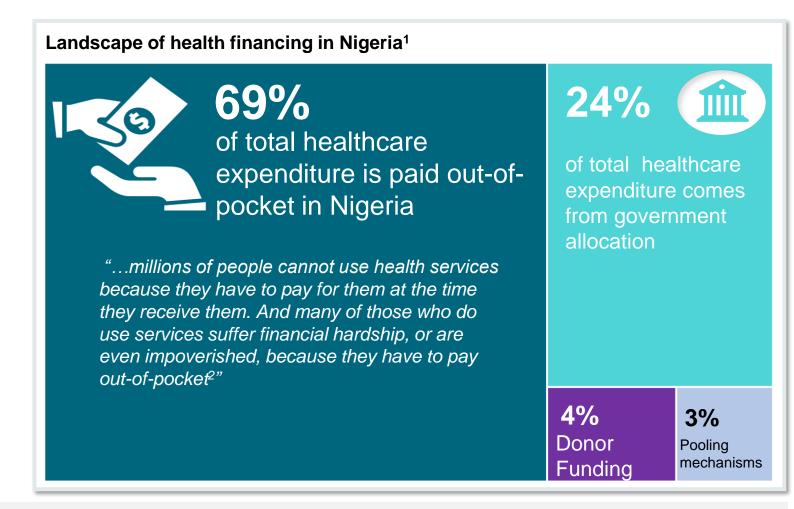
- Taxes from exports, goods, and services e.g. Basic Healthcare Provision Fund
- Sin tax: alcohol and tobacco taxation

Donor Funding

- Aid, drug donations, loans, and grants
- Global Fund to fight AIDS, Tuberculosis and Malaria

Pooling mechanisms

- Social, Private, and community health insurance schemes
- National Health Insurance Scheme



Realities in the Nigerian context necessitate exploring out-of-pocket expenditure as fund sources for uterotonic procurement in the short-term, while building a more sustainable play through pooling mechanisms

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4.1 Resource mobilization – Assessment of the different financing mechanism

events3

term health needs

Tax-based revenue and pooling mechanism are the most reliable and sustainable funding mechanisms for health programs

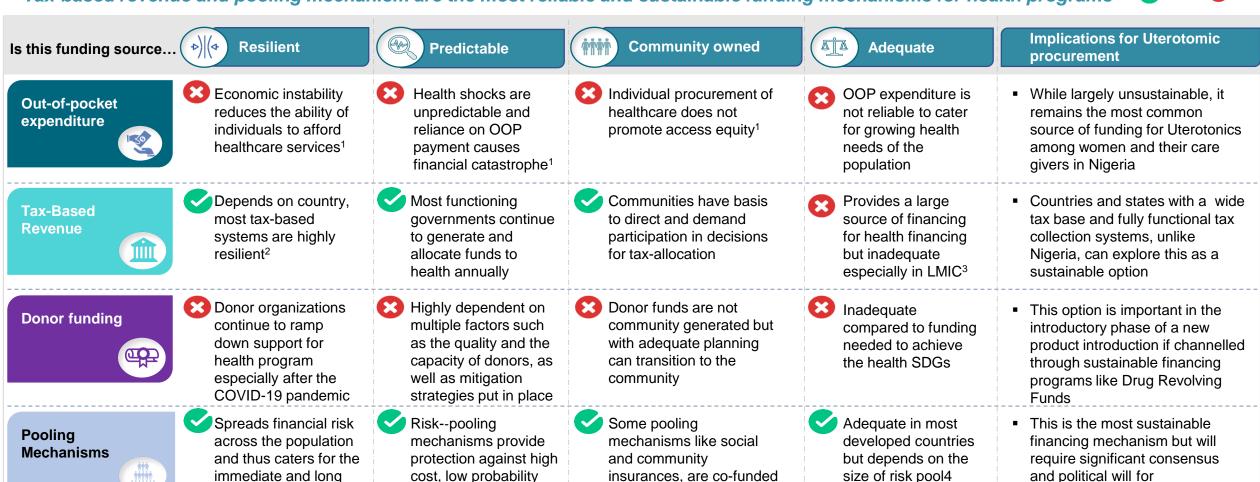


implementation which may take

long to achieve







With many countries relying heavily on donor funding, which is both unstable and unsustainable, it is necessary to identify mechanisms to increase domestic resources for health and make them more sustainable

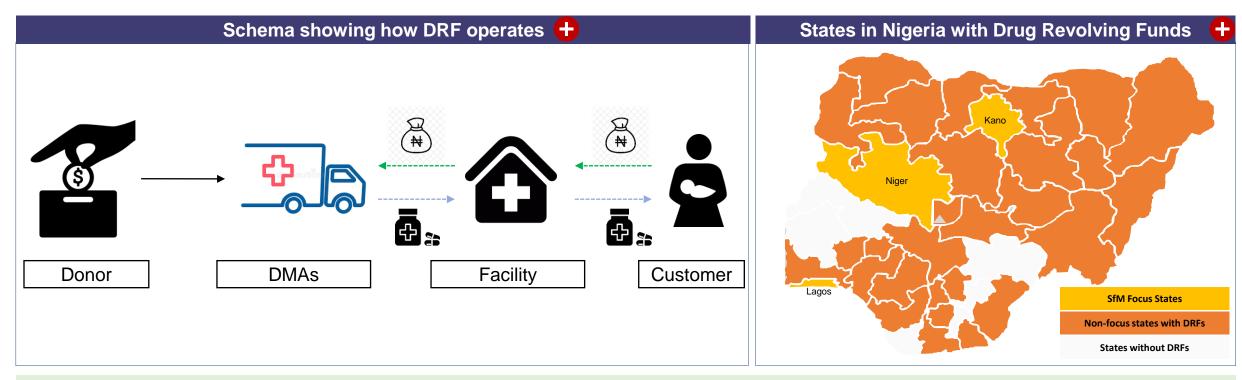
by individuals, households

and government

Sources:1. Adeyemi Theophilus Okunogbe. Three Essays on Health Financing in Sub-Saharan Africa Health Shocks, Health Insurance Uptake, and Financial Risk Protection **2**. Steve Thomas Anna Sagan. Strengthening health systems resilience. POLICY BRIEF 36. Key concepts and strategies **3**. Tax-Based Financing for Health Systems: Options and Experiences **4**. Immunization Financing Toolkit. The World Bank and GAVI Alliance. December 2010 42

4.1 Resource mobilization – Selecting an appropriate health financing mechanism

The Drug Revolving Fund (DRF) is a widely accepted scheme in Nigeria that involves the use of initial funds to procure drugs for use in a given health system on a user-fee basis for sustainability



- In recent years, donors and partners including USAID, BMGF, and DFID have supported states to establish Drug Revolving Fund (DRF) as well as Drug Management Agencies (DMAs) to manage them to ensure increased access to essential medicines sustainably.
- Essential medicines supplied through the DRF are provided at a markup to clients. The markup is utilized in most cases to increase the scope of the DRF, pay for the distribution of medicines to facilities, cater to inflation, and other costs.
- The three focus states on the Smiles for Mothers program also operate DRFs for the supply of essential medicines to over 800 primary, secondary, and tertiary health facilities.

SfM Experience – Resource mobilization

SfM Experience

The program identified the multiple financing options which exist and can be explored to sustainably fund procurement of maternal health commodities Lagos Example Learning opportunity Public sector Private sector Disbursement Covered services **Funding option Fund sources** Remarks frequency One-time seed capital from the DFID Essential medicines and Overseen by the state ministry of health which Sustainable PATHS2 Project in 2013 consumables including MNCH coordinates procurement through the SDFR drug revolving commodities procurement committee fund Individual/household out-of-pocket payment Revolving Reaches at least one PHC in every ward State Government annual budgetary allocation MNCH medicines and Annual funds disbursement is sometimes 12 Free health consumables irregular policy scheme 8% of the 20% mark-up component at the health facilities under the SDRF scheme Essential medicines Monthly disbursements are sustainable, Monthly accessible and reliable way of ensuring free health commodities to beneficiaries Federal Govt. contribution Basic health care services Has not yet been rolled out in the state Basic 3 healthcare Essential medicines and State Govt. contribution provision fund vaccines (20% of Fund) Quarterly International donors State Government budgetary allocation 12 Basic health care services Pools funding from enrollees through the Lagos **Lagos State** health trust fund **Health Scheme** Annual premiums from enrollees Health facility administrative cost Monthly BHCPF 1 YEAR International government donors (92% of Malaria, TB, and HIV medicines, Global fund support for malaria services including Global fund for consumables and care services antimalarials in Lagos ended in Dec 2017 Fund) Malaria, TB and Annually

HIV

PEPFAR fund

for HIV

- Private sector and NGO donors

- International governments donors

- Last Mile Distribution of HIV and TB health commodities
- HIV medicines and consumables
- HIV care services

- State government provides buffer quantity for antimalarials
- Additional RTKs for other routine purposes are procured by the State Government

4.1 SfM Experience – Resource mobilization

Each financing option was ranged based on its historical procurement of uterotonics and the sustainability of its funding sources

SfM Experience

Theme	Description	Ranking
Availability of funding for	 Has not historically allocated funds for health commodity procurement 	
uterotonics	 Allocates funds for health commodity procurement; but has not historically funded the procurement of MNCH commodities 	
	 Allocates funds for MNCH commodity procurement; but has not historically funded the procurement of uterotonics 	
	 Consistently allocates funds for procurement of uterotonics 	
Sustainability of funding	■ Funding is solely dependent on individual philanthropists, implementing partners or donor agencies	
sources	 Funding is only dependent on regular government budgetary allocation 	
	■ Funding is dependent on regular government budgetary allocation and contributions from donors/partners	
	 Funding comes from government budgetary allocation and proceeds from end users either preferably via insurance premiums, with or without donor contributions 	

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SfM Experience

4.1 SfM Experience – Resource mobilization

Historical procurement of MNCH commodities and sustainable funding sources were key criteria considered in leveraging a financing option for the procurement of uterotonics

Lagos Example

Health financing options	Availability	Sustainability	Remarks
Drug Revolving Fund			With sustainable funding sources, the DRF has historically procured uterotonics, but only Oxytocin
Lagos State Health Insurance Scheme			This financing option has sustainable funding sources and funds the procurement of Oxytocin via reimbursements to HFs that go to the DRF
Free health policy scheme			The free health policy scheme has historically procured only Misoprostol but it relies solely on the State Government for funding
Basic Health Care Provision Fund (NPHCDA gateway)			The BHCPF has sustainable funding sources; when rolled out, it will fund the procurement of essential medicines directly (NPHCDA) and indirectly (NHIS)
Global Fund for Malaria, TB and HIV			This donor-funded option procures health commodities but not MNCH commodities or uterotonics
LAFIYA program			The UK FCDO-funded LAFIYA program in Lagos has not procured health commodities since its inception in 2020
			The UK FCDO-funded LAFIYA program in Lagos has not procured health

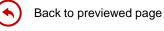
Green indicates that a health financing option has historically allocated funding for uterotonics procurement and its funding sources are very sustainable; while red signifies that a health financing option has not funded the procurement of uterotonics and its funding sources are unsustainable

SfM Experience – Resource mobilization

Each funding source was evaluated based on four (4) features of sustainable financing sources



Appendix



Instructions

- Participants from each state are to fill out a separate worksheet for each funding option. Participants should select an option from each of the statements made
- Participants will be invited to outline challenges to each statement disagreed with in a separate worksheet

Enter Funding	Sources Free MNCH intervention Key: SA: Strongly agree A: Agree N:	Neutral D :	Disagree SD	: Strongly di	sagree
	Statements	SA	Α	D	SD
Resilience	 The fund is easily repurposed to procure commodities following changes to a treatment guideline or protocol e.g. an updated essential medicines list The fund source is resistant to political changes or change in government 				
	 The fund source is resistant to changes in donor priorities 				V
Predictability	 The fund is readily disbursed at the allocated time Funds are consistently disbursed at the budgeted quantities 				
Community Ownership	 Management of the fund involves multiple stakeholders from different MDAs in the state Funds are utilized based on a consensus and the agreement of multiple stakeholders 				
Adequacy	 Fund satisfies current procurement needs The fund has systems to steady increase to satisfy future procurement needs The fund has non-traditional systems to improve pool of available funding 				

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4.2 Development of investment case for uterotonics

State health managers need to make an investment case for the introduction of a new commodity to ignite interest of executive leaders, policymakers and potential donors.

An Investment case serves two purposes



Powerful tool to demonstrate the high returns that can be achieved by strengthening investments in the delivery of high-impact interventions

pote impastre deliv

Provide a compelling argument to potential investors on the desired impact that can be achieved by strengthening investments in the delivery of high-impact interventions

Clinical Impact of the Innovation

Presents an argument for investing in a particular health area or intervention due to the potential impact on health outcomes



Offers an analysis of the value for money and the value for resources of investment in a range of interventions to meet desired goals







Building an investment case for a new product requires special technical expertise and strong health sector collaborations:

Output

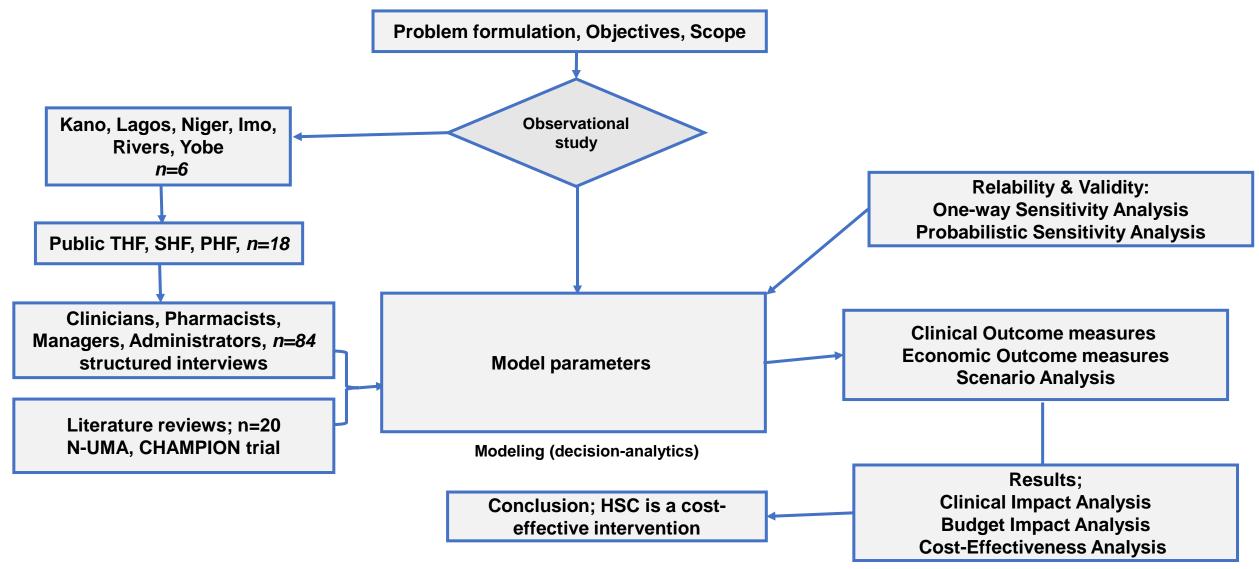
- Health Economists to drive Clinical Impact Studies and support Cost-Effectiveness Analysis
- Clinicians and Maternal Health Program Managers to obtain early buy-in for the study

Sources: SfM Analysis 48

4.2 SfM Experience – Development of investment case for uterotonics

SfM Experience

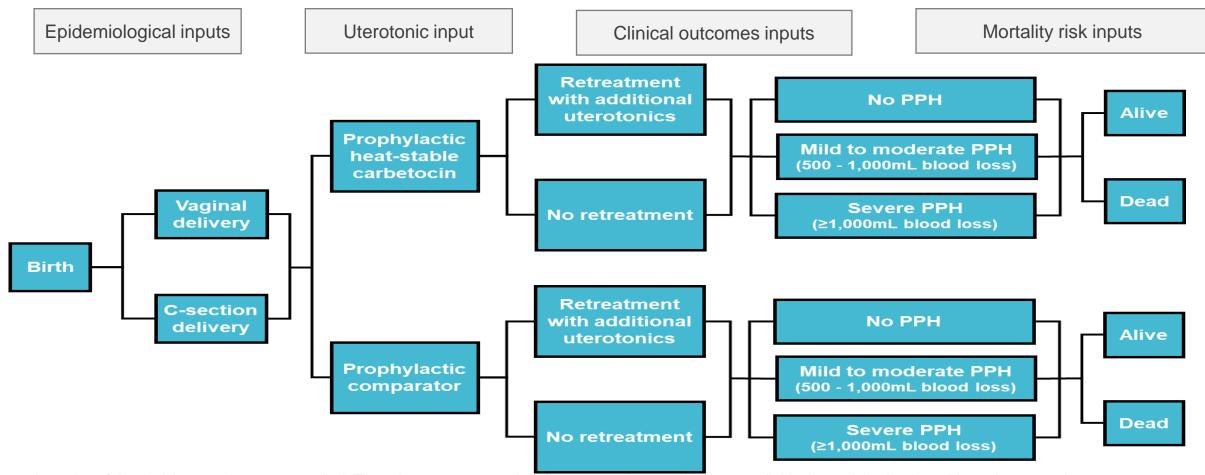
Design and methodology: We conducted an economic evaluation based on decision-analytic modelling of collected facility data from six (6) states in Nigeria



4.2 SfM Experience – Development of investment case for uterotonics

SfM Experience

Design and methodology: The Health Economic Model uses a decision tree as the predictive pathway



At each section of the decision tree, inputs are applied. These inputs are sourced via literature review or, where not available, key opinion leader guidance is captured.

For simplicity, non-pharmaceutical medical interventions were not included in this decision-tree (e.g., hysterectomy, etc.)

Key: C-section, caesarean section; mL, millilitre; PPH, postpartum haemorrhage. No PPH = blood loss of less than 500mL within 24 hours after birth. Mild-to-moderate PPH = blood loss of 500mL or more within 24 hours after birth, severe PPH = blood loss of 1.000mL or more within 24 hours after birth

4.2 SfM Experience – Development of investment case for uterotonics

SfM Experience

Clinical impact result: Prophylactic use of HSC is associated with better clinical outcomes when compared to other uterotonics

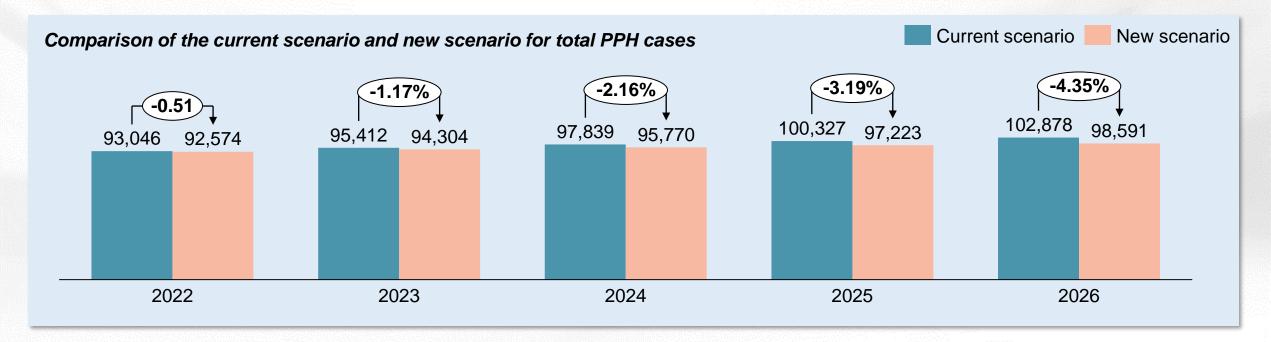
	•	• •			
	Effectiveness – All PPH Events	Intervention (prophylactic)	Effectiveness All PPH events	Incremental Effectiveness All PPH events	% Additional All PPH events Comparator VS HSC
		Heat-stable Carbetocin	285,627		
		Oxytocin	397,279	111,652	39%
		Misoprostol	429,366	143,739	50%
		Oxytocin-Misoprostol	337,342	51,715	18%
III.	Effectiveness – Severe PPH Events	Intervention (prophylactic)	Effectiveness Severe PPH events	Incremental Effectiveness Severe PPH events	% Additional Severe PPH events Comparator VS HSC
		Heat-stable Carbetocin	85,388		
		Oxytocin	98,261	12,873	15%
		Misoprostol	117,441	32,053	38%
		Oxytocin-Misoprostol	91,095	5,707	7%
	Effectiveness – Deaths	Intervention (prophylactic)	Effectiveness Death	Incremental Effectiveness Death	% Additional Death Comparator VS HSC
		Heat-stable Carbetocin	2,679.3		
		Oxytocin	3,218.7	539.4	20%
		Misoprostol	3,741.9	1062.6	40%
N/ (1)		Oxytocin-Misoprostol	2,968.8	289.5	11%

4.2 SfM Experience – Development of investment case for uterotonics

SfM Experience

Clinical Impact Results: Total PPH events consistently reduced with increased HSC coverage

	2022	2023	2024	2025	2026
Total PPH (Current scenario)	93,046	95,412	97,839	100,327	102,878
Total PPH (New scenario)	92,574	94,304	95,770	97,223	98,591
Clinical Impact	472	1,108	2,069	3,104	4,287

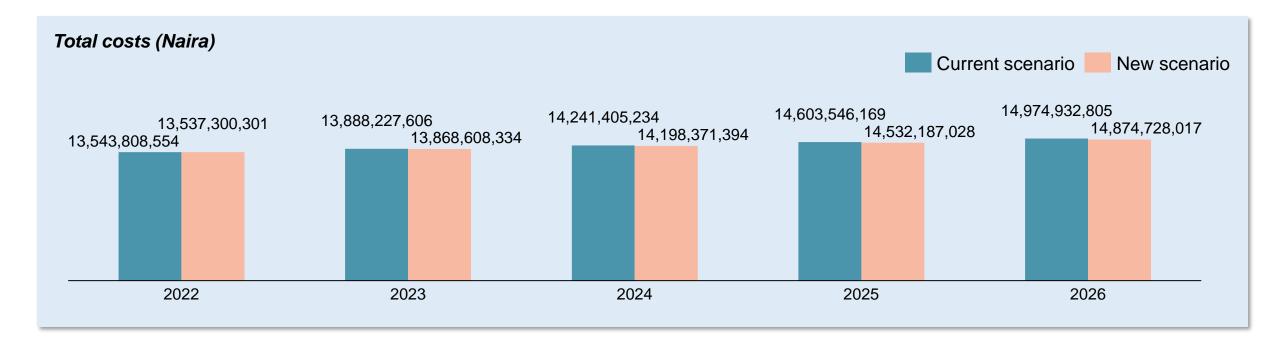


4.2 SfM Experience – Development of investment case for uterotonics

SfM Experience

Budget Impact: Cost savings increase with increased HSC coverage

	2022	2023	2024	2025	2026
Total cost (Current scenario)	N 13,543,808,554	N 13,888,227,606	N14,241,405,234	N 14,603,546,169	N 14,974,932,805
Total cost (New scenario)	N 13,537,300,301	N 13,868,608,334	N 14,198,371,394	N 14,532,187,028	N 14,874,728,017
Budget Impact	N6,508,253	N19,619,272	N43,033,840	N71,359,141	N100,204,788



4.2 SfM Experience – Development of investment case for uterotonics

SfM Experience

Clinical Impact Results: Total PPH events consistently reduced with increased HSC coverage

Intervention (prophylactic)	DALYs	DALYs Averted**	Deaths Avoided**	Incremental costs(in NGN) per woman*	ICER DALYs Averted
Heat-Stable Carbetocin	88,128				
Oxytocin	106,979	0.007	0.00022	-860	Heat-stable Carbetocin dominant
Misoprostol	124,172	0.014	0.00042	-163	Heat-stable Carbetocin dominant
Oxy/Miso	98,309	0.004	0.00012	-716	Heat-stable Carbetocin dominant

HSC has a higher Incremental Cost Effectiveness Ratio compared to the other uterotonics

Source: SfM Team analysis

^{*} Negative value means total costs are lower for HSC ** Positive value means HSC improves outcome

4.3 Uterotonics forecast and costing

There are three basic principles to ensuring a good commodity forecast

Adherence to context specific guidelines defined by an authorized body in the geographic location

In Nigeria, the National **Product Supply Chain** Management Program provides guidance for forecasting

Involvement of a wide selection of qualified stakeholders to provide input and guidance

Stakeholders involved should include logistics managers, procurement managers and health workers

Consideration for a range of products and not just a single medicine

Forecasts for a new Uterotonic requires a complete forecast for all available Uterotonic options to determine a product mix

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Sustainable Financing

4.3 SfM Experience – Uterotonics forecast and costing

Assumptions for the population-based model used to forecast Lagos state's uterotonic need

SfM Experience

Lagos Example

				Lagos Example						
ASSUMPTION	KANO	LAGOS	NIGER	DATA SOURCE						
Annual population growth rate (%)	3.35%	3.25%	3.46%	National Bureau of Statistics. 2017 Demographic Statistics Bulletin: Population projection						
% of public health facility-based deliveries in the state (assuming all receive Oxytocin or Misoprostol in the third stage of labour)	16.4%	27.4%	24%	Nigeria Demographic and Health Survey 2018						
% of home-based deliveries	80.8%	15.6%	74.2%	Nigeria Demographic and Health Survey 2018						
% of health facility-based births that develop PPH despite receiving Oxytocin in the third stage of labour			2.85%	Carmen D, AbouZahr C, Stein C. Global Burden of Maternal Haemorrhage in the Year 2000. Geneva: World Health Organization; 2003						
% of home-based births referred to and treated for PPH in a health facility			6%	Derman RJ, Kodkany BS, Goudar SS, et al. 2006. Oral misoprostol in preventing postpartum haemorrhage in resource-poor communities: a randomized controlled trial. Lancet. 2006;368(9543):1248–1253						
% of all health facility-based deliveries requiring induction			9.60%	World Health Organization (WHO). WHO Recommendations for Induction of labour. Geneva: WHO; 2011						
% of all health facility-based deliveries augmented during labour							20		20%	Wei S, Luo ZC, Xu H, Fraser WD. The effect of early oxytocin augmentation in labour: a meta-analysis. Obstet Gynecol. 2009;114(3):641–649
Birth rate for the state			3.70%	https://www.macrotrends.net/countries/NGA/nigeria/birth-rate						

Oxytocin was used to model the total uterotonic need of the state because it is indicated for use in the third stage of labour for PPH prevention; for induction and augmentation of labour; and for the treatment of PPH

Sources: SfM Analysis 56

SfM Experience

4.3 SfM Experience – Uterotonics forecast and costing

Model showing annual uterotonic needs of Lagos over a 6-year period

Lagos Example

Parameters	2020	2021	2022	2023	2024	2025
Total population at state level	14,264,558	14,728,156	15,206,821	15,701,043	16,211,327	16,738,195
Total number of births (deliveries) in a year	527,789	544,942	562,652	580,939	599,819	619,313
No. of public HF-based deliveries (and assuming that all deliveries will receive Oxytocin)	144,614	149,314	154,167	159,177	164,350	169,692
No. of home-based deliveries	82,335	85,011	87,774	90,626	93,572	96,613
No. of HF births that develop PPH despite receiving Oxytocin for PPH prevention	4,122	4,255	4,394	4,537	4,684	4,836
No. of home-based births referred to HFs and treated for PPH	4,940	5,101	5,266	5,438	5,614	5,797
No. of HF-based births that require induction (assuming all cases use Oxytocin)	13,883	14,334	14,800	15,281	15,778	16,290
No. of HF-based births that require augmentation (assuming all cases use Oxytocin)	28,923	29,863	30,833	31,835	32,870	33,938
Quantity of Oxytocin needed for PPH prevention (1 ampoule of Oxytocin)	144,614	149,314	154,167	159,177	164,350	169,692
Quantity of Oxytocin needed for PPH treatment (4 ampoules of Oxytocin)	36,246	37,424	38,641	39,897	41,193	42,532
Quantity of Oxytocin required for induction of labour (1 ampoule of Oxytocin)	13,883	14,334	14,800	15,281	15,778	16,290
Quantity of Oxytocin required for augmentation of labour (1 ampoule of Oxytocin)	28,923	29,863	30,833	31,835	32,870	33,938
Annual requirements for Oxytocin: Quantity of Oxytocin for (PPH prevention + PPH treatment + induction of labour + augmentation of labour	223,666	230,935	238,441	246,190	254,191	262,453

Sources: SfM Analysis

4.3 SfM Experience – Uterotonics forecast and costing

SfM Experience

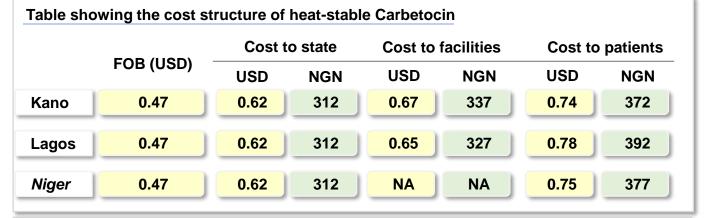
Table showing the phased introduction of heat-stable Carbetocin in Lagos as a function of the product mix for other Uterotonics

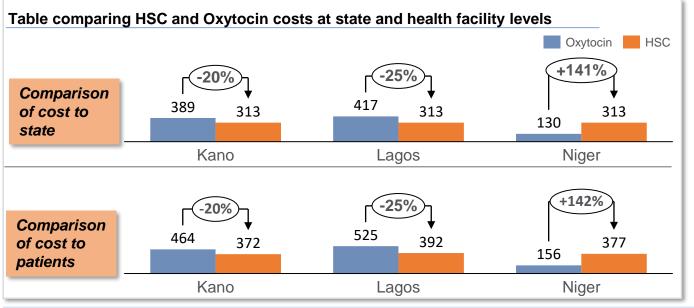
Uterotonics supply chai	n, Lagos			
Coverage	Type of healthcare facilities covered		thcare facilities only	Lagos Example 😛
	Primary Healthcare Facility Coverage (%)	100%		
	Secondary/Tertiary Healthcare Facility Coverage	100%		
	-			
Ambition - Target	Primary Healthcare Facility	2020	2021	2022
product mix (in % of total administered	Oxytocin	60%	55%	35%
doses of	Misoprostol	40%	35%	35%
uterotonics)	Ergometrine	0%	0%	0%
	HSC Carbetocin	0%	10%	20%
	Oxytocin and Ergometrine (fixed dose combination)	0%	0%	0%
	Secondary/Tertiary Healthcare Facility			
	Oxytocin	60%	55%	50%
	Misoprostol	40%	35%	35%
	Ergometrine	0%	0%	0%
	HSC Carbetocin	0%	10%	15%
	Oxytocin and Ergometrine (fixed dose combination	0%	0%	0%

4.3 SfM Experience – Uterotonic forecasting and costing

SfM Experience

The cost of heat-stable Carbetocin varies across states following application of the various drug revolving funds markups





HSC cost structure (Naira)

- At a fixed FOB price of \$0.47 per ampoule and a fixed markup in each state, the subsequent price per ampoule of HSC to patients will be determined by quantity procured, the cost of freight and direct-at-place (DAP) charges
- The markups in each of the 3 states is captured in its DRF operational guidelines**

Oxytocin vs HSC (cost to states) (Naira)

- The price per ampoule of HSC to Kano and Lagos states compares very favorably to that of Syntocinon which the two states procured in 2020, but is more than twice the ampoule price of Juhel Oxytocin procured by Niger state
- Implementing pooled procurement between program and non-program states may further drive down for HSC to favourably compete with cheaper brands
- With this clarity on the potential cost of HSC to the states, there is a need for the Consortium and IDA Foundation to engage the 3 program states to discuss and fix the price of HSC based on:
 - The volatility of the Naira to Dollar exchange rate
 - Potential additional logistics and storage service charges when states commence procurement of HS

^{**} The DRF markups vary across Kano, Lagos, and Niger at 7.5% and 5% in Kano and Lagos respectively. At the health facilities in Kano, Lagos and Niger, an additional markup of 11%, 20% and 20% respectively is applied to the patients. In Niger, 6% of the 20% markup to patients is returned to the agency to keep the DRF running.

4.4 Lessons learned

- Forecasting using accurate aggregated data from multiple sources translates to improved fund utilization for procurement and prevents wastage of maternal health commodities through loss and expiry of health commodities
 - It is important to explore and understand the key factors that affect forecasting, as the factors present opportunities for improvement and challenges to overcome as well
 - This underscores the need to improve health and logistics management information systems data collection across the whole supply chain
- Government leadership and participation in the landscaping and optimization of health financing mechanisms are key to identifying and implementing the necessary operational and administrative changes required to achieve sustainability
 - All landscape analyses should include a diverse range of stakeholders, including donors and the private sector, to gain buy-in and synergize fund optimization efforts
- Sustainable financing for life-saving commodities requires understanding the total commodity requirements through effective quantification or commodity forecasting
- Overall, the Drug Revolving Fund (DRF) is a potent option for sustainable and consistent funding of maternal health commodities at service delivery points
 - DRF requires strong, effective administrative and operational oversight to ensure funds are not mismanaged when seeded and to prevent health facility decapitalization
- The investment case is a critical tool to enable policymakers to make the right choice on Uterotonics and other maternal health commodities as it combines findings from both clinical impact and economic perspectives
 - There is a need for strong expertise and technical knowledge from health economist to develop the complex cost effectiveness models and to generate accurate results

Supply Chain

- 5.1 Commodity procurement process mapping
- 5.2 Capacity building for pharmacists and logisticians
- 5.3 Pharmacovigilance strengthening
 - 5.4 Lessons learned

SECTION 5

Section Overview

Supply Chain



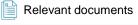
Objectives of playbook chapter

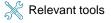
- Describe the process for procurement and supply management of maternal health commodities
- Provide guidance on broader supply chain optimization and improvements through capacity building
- Describe the approach for pharmacovigilance systems strengthening
- Share from SFM experience in strengthening the supply chain for **Uterotonics**



Key activities

- Commodity procurement process mapping
- Capacity building for Pharmacists and Technicians to improve the Uterotonics supply chain
- Health worker sensitization on available ADR reporting tools and processes











- Pharmacovigilance plan for HSC introduction
- **NPSCMP SOPs**
- Process flow map for mentoring
- Training workbook
- Pre & post test assessment questions
- Paper-based and electronic LMIS tools
- ADR reporting tools

5.1 Commodity procurement process mapping

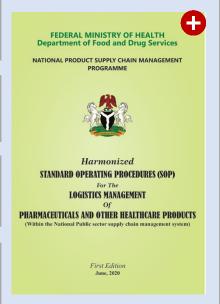
Commodity procurement should be managed by a qualified committee and sub-committees to ensure procurement of quality products at competitive prices

PRIORITY AREAS FOR A NEW PRODUCT INTRODUCTION

- Procuring entity constitutes a
 Procurement Committee to develop a
 procurement plan
- 2. Procurement Committee constitutes a Technical Evaluation subcommittee to evaluate bids and assist procurement process
- 3. Committee selects and adopts procurement method(s) based on pre-defined criteria
- 4. Procurement Committee prepares all relevant procurement documents to activate the process
- 5. Where applicable, call for Expression of Interest from bidders
- 6. Committee prequalifies bidders based on approved criteria

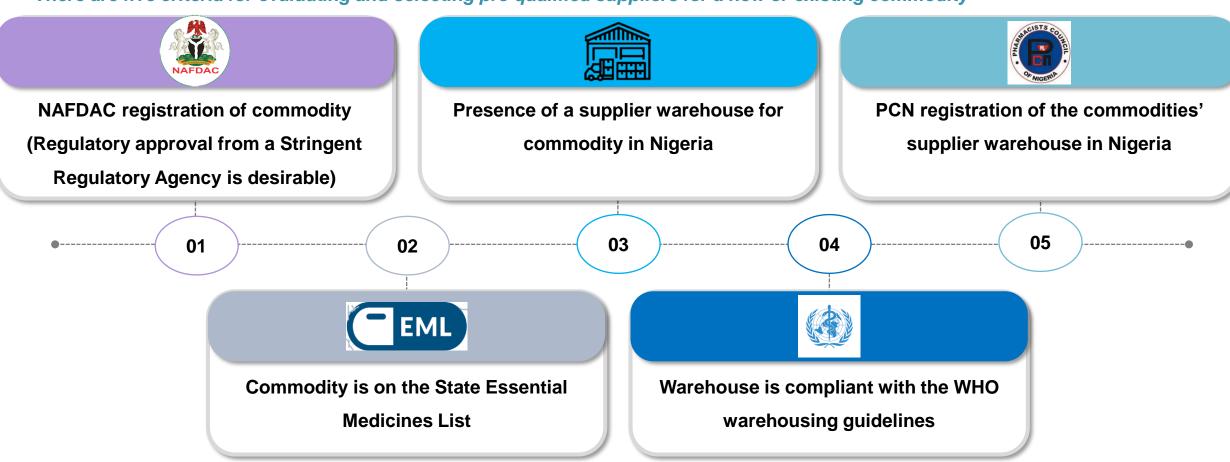
- 7. Issue bidding documents to prequalified bidders
- 8. Evaluation subcommittee receivers tenders from bidders
- 9. Evaluation subcommittee evaluates tenders and negotiates where applicable
- 10. Make recommendations of the winning bids
- 11. Tenders Board/Head of procuring entity certifies procurement action and recommends award of contract

- 12. Procuring entity grants final award of contract based on recommendations
- 13. Procuring entity receives and inspects procured products/services for quality checks
- 14. Procuring entity generates and circulates report of products delivered and issues certificate of completion
- 15. Initiate payment



5.1 Commodity procurement process mapping – Criteria for evaluating and selecting pre-qualified suppliers

There are five criteria for evaluating and selecting pre-qualified suppliers for a new or existing commodity



States may have additional requirements for suppliers to satisfy before prequalification to supply medicines to the states such as in Kano and Lagos States, where the supplier is required to show evidence of tax clearance to finalize supplier prequalification

5.1 Commodity procurement process mapping – Supply planning for procurement of commodities

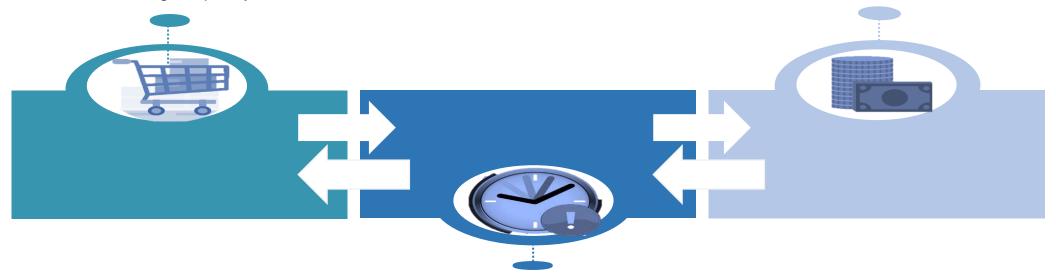
The supply planning process aims to answer three (3) main questions

I. How much to procure at a time?

- How much stock is at hand?
- How much is needed each month to stay between the minimum and maximum order levels?
- What is the storage capacity?

III. What is the cost?

- What are the supplier prices?
- What are the shipping and handling costs?
- What are the available funding sources to meet costs?



II. When will the products be received?

- What are the supplier lead times/delivery schedule?
- What is the timing of funds disbursements

SfM Experience – Commodity procurement process mapping

SfM Experience

Appendix

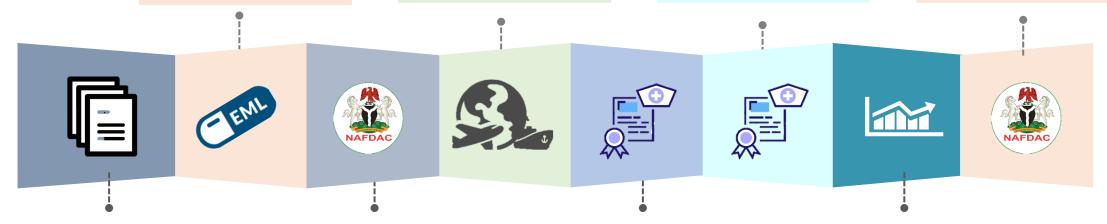
The introduction of heat-stable Carbetocin involved a range of activities, including regulatory approval, supplier prequalification, procurement, and delivery of the drug

> **Updated the states'** essential medicines list to include heat-stable Carbetocin for use in both secondary and primary healthcare facilities

Imported HSC for the training of healthcare workers in Kano, Lagos, and Niger states and stored the commodity in the states' central medical stores

Trained clinicians on **Emergency Obstetric** and Newborn Care (EmONC) to ensure appropriate use of HSC within the program facilities

Finalized registration with NAFDAC and receive the NAFDAC certificate



Updated policy documents including the National Essential medicines list and Life Saving Skills manual to include heat-stable Carbetocin

Registered HSC with the National Agency for Food and Drugs Administration and Control (NAFDAC) and received administrative approval detailing the NAFDAC number of the product

Trained and conducted on-the-job coaching for Pharmacists and **Pharmacy technicians** on supply chain management processes to strengthen supply chain for uterotonics including HSC

Conducted implementation research study across 6 high volume secondary health facilities in each program states to test the acceptance of the new commodity by healthcare workers

5.2 Capacity building for pharmacists and logisticians

Training curriculum was developed and implemented in collaboration with the National Product Supply Chain Management Program to address capacity building gaps

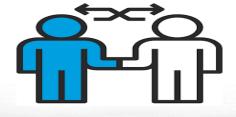
Theme	Topics	Sub-topics	
1 Quantification	 Forecasting methodologies, data collection and collation for forecasts 	 Quantification and forecast methodologies Tools for quantification Quantification in health facilities 	Module: Quantification
Commodity inspection	 Strengthening quality assurance systems for medical products 	 Inspection of health commodities and quality assurance Tools for commodities inspection Systems for the monitoring of commodities storage 	Module: Commodity Inspection
Warehousing, distribution, reorder	 Standard storage, inventory and facility management practices 	 Storage requirements for essential medicines Maintenance of storage facilities and equipment Inventory management for essential medicines 	Module: Warehousing
Data management	Effective data management	 Supply chain data management Tools for data management Use of data management tools 	Module: Data Management
5 Pharmacovigilance	 NAFDAC's good pharmacovigilance practices 	 Pharmacovigilance for health commodities Tools for pharmacovigilance Structures and processes for adverse reaction reporting 	Module: Pharmacovigilance

Appendix

5.2 Capacity building for pharmacists and logisticians

A blend of two approaches can be adopted for the capacity building intervention for health workers and state logistics managers





Approach

Details

In-class session

- Workshop sessions conducted centrally and in clusters
- Participants trained on selected topics as part of the capacity building
- Training technique includes lectures, demonstrations, group and individual works

Materials used

- PowerPoint presentations on supply chain management
- Video presentation
- Group exercises

On-the-job coaching

- Observed participants as they conducted their job routines
- Provided feedback on where and how to improve
- Provided assistance to participants as required
- Coaching flow map
- **ODK** Data collection tool





- In class sessions and on the job coaching are best implemented in phases starting with the in-class sessions
- The National Product Supply Chain Management Program provides training materials and resource persons for implementation

5.2 Capacity building for pharmacists and logisticians

The in-class training sessions were cascaded from a national training of trainers to the state level and health facilities

Training	Proposed duration	₩ I I I I I I I I I I I I I I I I I I I	Objective
National training of trainers	One day	Train the trainer	Ensure a shared understanding of the training curriculum and prepare trainers for in-class sessions
Training of state logisticians	Two days	Direct	Equip state logisticians and warehouse managers with the knowledge required to effectively manage the supply chain for the states
Training of health facility pharmacists and technicians	Two days	Direct	Equip health facility Pharmacists and Technicians with the knowledge to manage essential medicines supply to prevent stockouts, ensure proper storage and improve Pharmacovigilance processes

Table of contents

5.2 SfM Experience – Capacity building for pharmacists and logisticians

SfM Experience

The program identified challenges across various supply chain themes which can be addressed through capacity building to inform the development of a training curriculum

Verified NA - Not Applicable

Theme	Challenges observed	Kano	Lagos	Nige
1 Quantification	 Inaccurate quantification of state needs due to unawareness of complete data sets relevant for accurate quantification 	√		√
	 Non-standardized quantification of health facility's essential medicines needs as a result of knowledge gaps in standard quantification processes 	✓	✓	✓
2 Commodity inspection	 Incomplete physical examination of received commodities due to the use of an outdated monograph to guide inspections 	NA	NA	✓
	 Inability to use inspection tools – e.g., refrigerator tags, to verify compliance with the right storage condition for delivered commodities especially heat-sensitive uterotonics 	✓	✓	✓
3 Warehousing, distribution and reorder	 Incorrect storage of heat-sensitive uterotonics resulting from knowledge gaps in the storage of heat-sensitive uterotonics 	✓	NA	✓
	Lack of standardized commodity reorder level to trigger procurement of commodities	✓	✓	✓
	 Poor maintenance of storage facilities and equipment especially for cold chain due to knowledge gaps on facility maintenance 	✓	✓	✓
4 Data management	 Errors during the record of health facility data in the LMIS tools by health workers due to unawareness of best data recording practices 	✓	✓	✓
	 Inability to use data tools for data management due to knowledge gaps in the use of data tools 	✓	NA	NA
5 Pharmacovigilance	 Inability to use soft and hard copies of the pharmacovigilance reporting forms for reporting cases of adverse drug reactions and non-efficacy of drugs resulting from knowledge gaps on the tools usage 	✓	✓	✓

5.2 SfM Experience - Capacity building for pharmacists and logisticians

SfM Experience

SfM trained health facility pharmacists and state logistics officers across the 3 program states between March 07 and April 05, 2022

Kano State



Lagos State



Niger State



Training of health facility Pharmacists and Technicians

Date: March 14 – March 17, 2022

Date: March 28 – March 31, 2022

Date: April 04 - April 05, 2022

Number of Participants: 51 (100%)

Number of Participants: 56 (100%)

Number of Participants: 29 (100%)

Training of state warehouse managers and logisticians

Date: March 07 – March 08, 2022

Date: March 21 – March 22, 2022

Date: Deprioritized

Number of Participants: 11 (100%)

Number of Participants: 16 (100%)

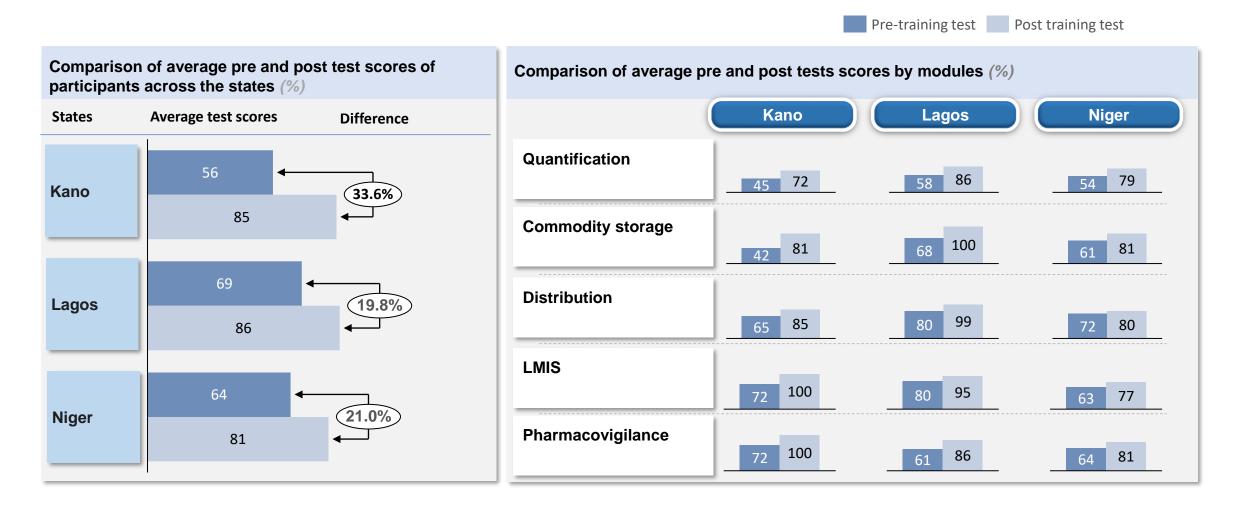
Number of Participants: NA

Source: Team analysis

SfM Experience

5.2 SfM Experience – Capacity building for pharmacists and logisticians

SfM's supply chain training recorded significant knowledge gain across the states in each of the training modules



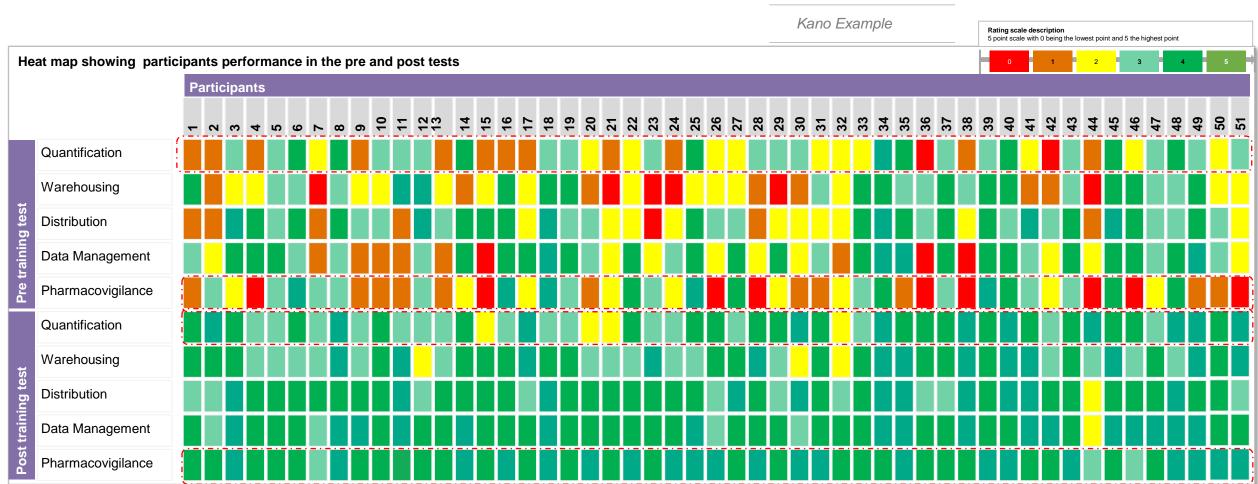
Source: Team analysis

^{*} Test of statistical significance was carried out using a Single Factor ANOVA and compared the results between states

5.2 SfM Experience - Capacity building for pharmacists and logisticians

SfM Experience

In Kano, participants recorded significant knowledge gain on the quantification and pharmacovigilance modules



- Significant jumps in the performance of a few participants with "0" and "1" pre-test scores, and varied improvements in participant knowledge suggest excellent delivery of training materials by the facilitators, especially the pharmacovigilance module
- The team targeted participants' areas of weakness during the rounds of on-the-job coaching, especially participants who ended with "less than 3 post-test scores" in any of the modules 73

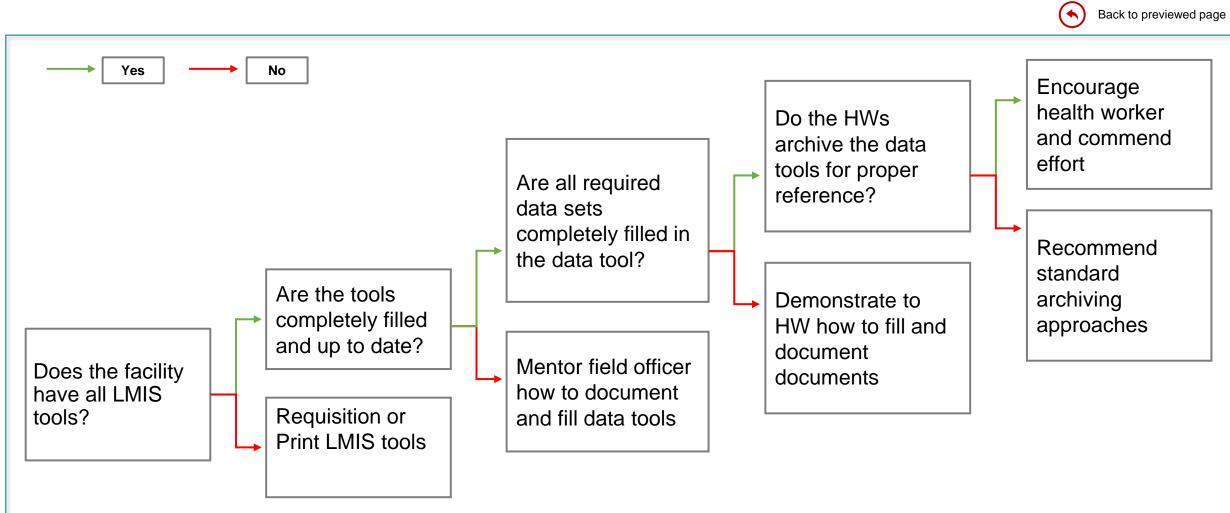
Playbook Introduction

Appendix

5.2 SfM Experience – Capacity building for pharmacists and logisticians

SfM Experience

The program also deployed flow maps as part of the on the job coaching support. These were utilized to diagnose challenges with LMIS data management within facilities and to routinely measure improvements in the data management processes within health facilities

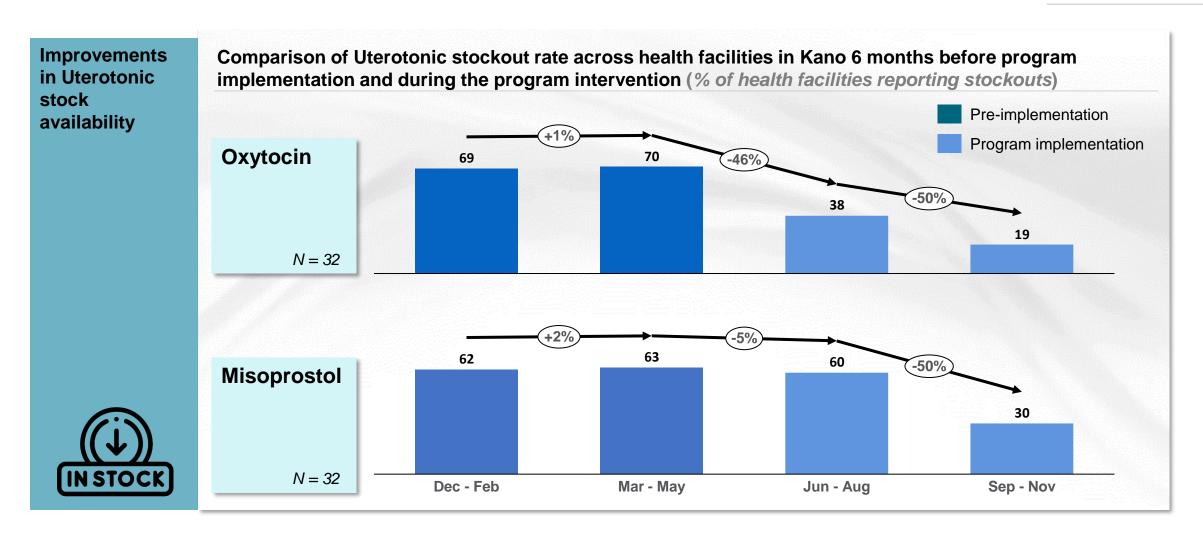


5.2 SfM Experience – Capacity building for pharmacists and logisticians

SfM Experience

The program facilities recorded significant reduction in stockout rates during the on the job coaching

Kano Example



5.3 Pharmacovigilance strengthening

There are 3 Pharmacovigilance tools used by NAFDAC for ADR reporting



ADR Reporting form (Yellow Form)

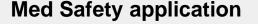
- A paper-based form produced by NAFDAC to be used to input patients ADR experiences
- The ICSR forms can be obtained from:
 - Any NAFDAC state office in the 36 states of the country
 - The NPC headquarters, Wuse, Abuja
 - Any of the zonal pharmacovigilance centres



ADR e-Reporting form

- This is an online portal that permits all users to enter information on **ADRs**
- The portal is available on NAFDAC's website and is available to the general public





- A mobile application that is used to input information on ADRs
- It is available on the Google Play store and the Apple store for Android and IOS devices
- It can be used by the general public to input information



5.3 Pharmacovigilance strengthening

What should be Reported about ADRs?

- 1 All suspected reactions including minor ones.
- 2 If an increased frequency of a given reaction is observed.
- All suspected ADRs associated with drug-drug, drug-food or drug-food supplement interactions.
- 4 ADRs occurring from overdose or medication error.
- Lack of effectiveness of the medicine (if the medicine did not achieve the desired result), or when suspected pharmaceutical defects are observed.
- Reactions suspected of causing death, danger to life, admission to hospital, prolongation of hospitalization, or birth defects.

- Everyone should report ADRs!
- This Includes
 - Health workers
 - Traditional Medicine practitioners
 - Consumers
 - Manufacturers and Suppliers

5.3 SfM Experience – Pharmacovigilance systems strengthening

SfM Experience

Smiles for Mothers implemented a 2-pronged approach to strengthen pharmacovigilance across its program states

Developed a pharmacovigilance plan for a new product rollout in line with NAFDAC recommendations and supported Pharmacovigilance reporting in program facilities to strengthen existing National pharmacovigilance structure across health facilities (+)



- Outlined the safety profile of the new product highlighting common adverse reactions, potential drug interactions and effects of overdose
- Developed SOPs for Pharmacovigilance reporting outlining reporting responsibilities and instructions for frequency of reports
- Routinely visited health facilities and engaged health workers to prompt ADR reporting and submission using the NAFDAC pharmacovigilance forms
- Conducted audits of submitted reports for completeness and accuracy and provided feedback to healthcare workers to encourage continuous reporting of ADRs

Trained healthcare workers on proper identification and reporting of detected ADRs to the National Pharmacovigilance Centre (NPC) and increase awareness and use of available ADR reporting tools



- Supported the training of health workers on Pharmacovigilance to:
 - Understand the key concepts and principles of Pharmacovigilance
 - Understand the step-by-step approach to undertaking Pharmacovigilance and ensuring safety of medicines
- Collaborated with the National Agency for Food and Drug Administration and Control (NAFDAC) to review the training curriculum and provided resource persons to train health workers

5.4 Lessons learned

- Supply planning should factor in potential delays in the supply chain processes that may extend the lead time for delivery of supplies, including unforeseen geopolitical events such as wars and pandemics like COVID19
 - Bureaucratic processes often cause significant delays in activities like product registration despite the best efforts of regulatory agencies
- Utilizing adult learning techniques like on-the-job coaching in addition to didactic training approaches is effective in ensuring capacity transfer and behavior among health workers
 - However, cost-effective and scalable approaches like e-learning options need to be explored to drive new knowledge among health workers
- Pharmacovigilance can be greatly strengthened if governments as well as partners prioritize ADR reporting as a cornerstone for all program interventions and commit resources to ensure that capacity and tools are readily available at health service points and workers frequently sensitized
 - While everyone is responsible for pharmacovigilance, clinicians have a unique role to play in ensuring that ADRs are routinely reported because they are frequently the first point of contact for patients and are best suited to investigate the occurrence of ADRs

Service Provision

- 6.1 Health care provider training
- 6.2 Clinical mentorship
- 6.3 Lessons learned

SECTION 6

Section Overview

Service Provision



Objectives of playbook chapter

- Describe the process for developing tailored EmONC training strategy and materials for health care providers using updated national LSS Manual
- Describe the training cascade and mentorship approaches used to ensure appropriate use and documentation of uterotonics among health care providers
- Share challenges and lessons learned from the Smiles for Mothers experience in building the capacity of health care providers



Key activities

- Curriculum development
- Clinical training and mentorship



Relevant documents





Materials included













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6.1 Health care provider training – Curriculum development

Develop the health worker training curriculum using existing resources materials





8-module curriculum for the Health worker training developed with oversight from the FMoH

The curriculum comprised the following modules:

- Module 1: EmONC
- Module 2: Antenatal Care
- Module 3: Postnatal Care (Post-partum family planning focus)
- Module 4: Maternal and Perinatal Death Surveillance Review (MPDSR)
- Module 5: Quality of Care (QOC)
- Module 6: Data tools and Data Management Module (Presentation and Group work)
- Module 7: Pharmacovigilance Module (Presentation and review of ADR form)
- Module 8: Supply Chain Module (Presentation and Case studies)



Health care provider training – Identifying participants

Conduct training from the National to the states and health facilities



National trainers

FMoH certified LSS and ELSS master trainers

State trainers

ObGyn consultants, nurses and midwives from the teaching hospitals, SMoH, or retired experienced ObGyn consultant

Health facilities

Clinicians providing obstetric services across maternity units

The trainings of the health care providers were cascaded to ensure a wider reach for a short amount of time

6.1 Health care provider training – Delivery approach

Conduct training using a mix of didactic training and in-facility practical sessions

Didactic Session

- The didactic sessions involve the facilitators introducing the healthcare workers to the training modules and also answering any immediate questions from the participants.
- This session also includes live and video demonstrations, role plays using case scenarios/case studies and some group work activities

In-facility training sessions

- Involves the deploying the training cohorts to selected facilities for clinical practical sessions under the guidance and supervision of the trainers.
- Trainees are batched in groups to observe vaginal and caesarian section deliveries and are guided on how to perform a range of EmONC services

Other resources used for the training besides the training curriculum include:

- Mentoring Workbook
 - Demonstration videos •
- Partographs

- 0
- Markers, notepads & pens
- Fake blood
- Sanitary Pads and towels
- Samples of Heat stable Carbetocin
- Non-Pneumatic Anti-shock Garment

Health care provider training – Performance assessment

Administer pre and post assessments to each participant to assess the impact of the training on their knowledge, as well as skills-confidence level

Knowledge assessment

- The knowledge assessment comprised 30 questions covering the scope of the training curriculum.
- The same assessment was administered to the participants at the beginning and end of the training to assess the knowledge gained.
- The assessment results demonstrated a significant improvement in participants' knowledge of EmONC.

Confidence Assessment

- The confidence assessment measures the participants' self-appraisal or perceptions in their ability and confidence in providing specific EmONC services.
- The participants reported a significant increase in their confidence in their capacity for service delivery, particularly for AMTSL, use of the Partograph and administration of HSC for PPH prevention.

SfM Experience

6.1 SfM Experience – Program state examples

The EmONC training was delivered using three key facilitation techniques

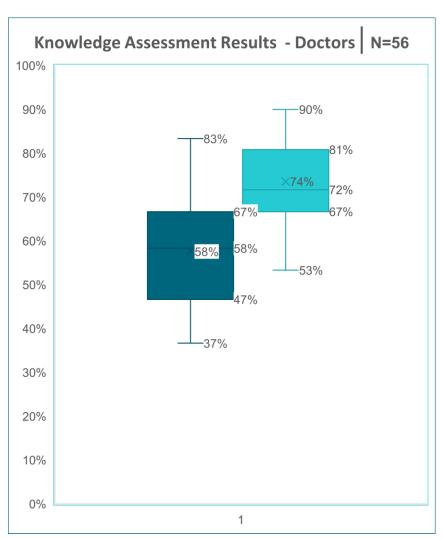
Techniques	Description	Modules	Examples		
Lectures	 An in-class session that provides in- depth overview into the training topics 	All modules	■ For all modules		
Demonstrations	 Audio-visuals: Videos were used to demonstrate best practices in conducting clinical activities 	Caesarean sectionSepsis	Performing a Caesarean SectionPreoperative aseptic techniques		
	 Live Demo: Job aides and other resources were used to demonstrate best practices 	PPHLabour and delivery	Blood loss estimationApplication of NASGPartograph filling		
Case Study Reviews	 Using the training workbook, participants tackled clinical scenarios individually or as small groups 	All modules	Diagnosing and Managing PPHRecognizing Danger Signs		

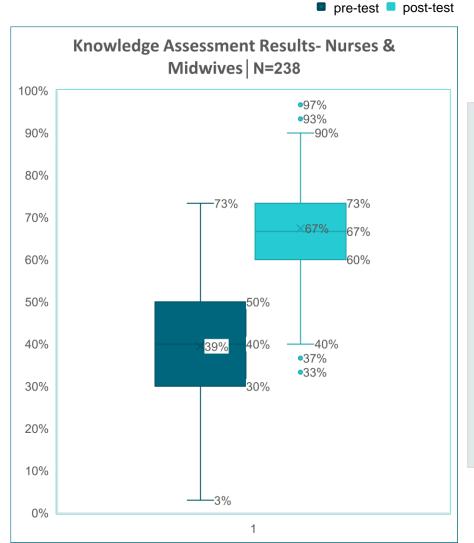
- The training was designed as a 3-day training with 2 and half days of in-class sessions and a half day visit to health facilities to observe deliveries and carry out AMTSL using heat-stable carbetocin
- The 8-module curriculum approved by the FMoH was used as the reference material for the training. Resources such as laminated partographs, training workbooks, NASG, injection pads and HSC were used during the training,

6.1 SfM Experience – Program state examples

SfM Experience

Knowledge assessment results in Kano state demonstrated significant improvement in participants' knowledge in EmONC



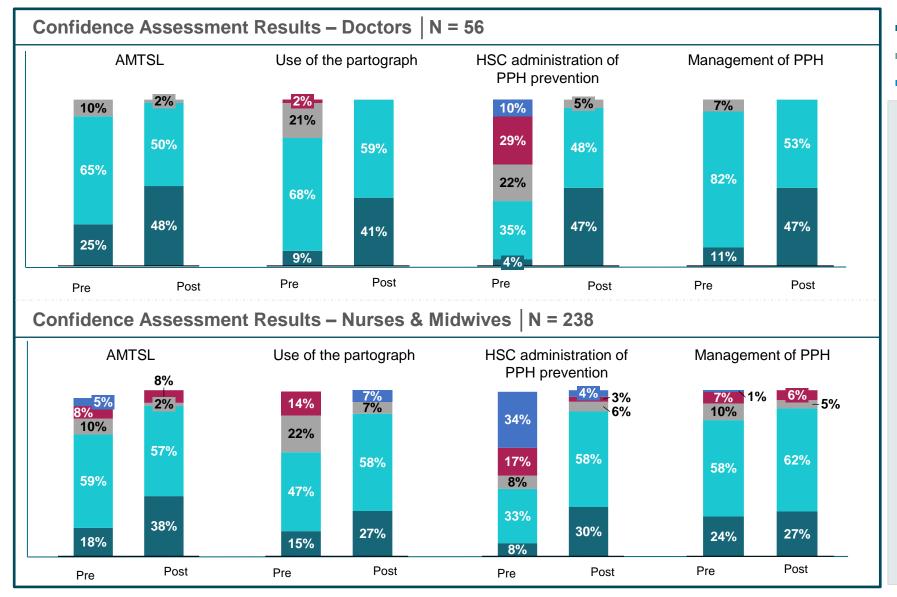


Kano Example

- The knowledge assessment results demonstrated a 24-percentage point increase overall (10-percentage point increase for doctors and 28-percentage point increase for nurses & midwives).
- The average score increased from 43% to 68% (58% to 74% for doctors, and 39% to 67% for nurses & midwives).

SfM Experience – Program state examples

In Kano state, participants' confidence levels in providing EmONC services increased



SfM Experience

Kano Example

- extremely confident
- very confident
- somewhat confident
- not very confident
- not at all confident
- The participants reported a significant increase in their confidence in their capacity for service delivery, particularly for AMTSL, use of the Partograph and administration of HSC for PPH prevention.
- Following training, 95% of doctors were at least "very confident" to use HSC; the proportion of doctors reporting "extremely confident" increased by 43 percentage points.
- Similarly, following training, 88% of nurses and midwives were at least "very confident" to use HSC, from 41% prior to training.
- The outstanding trainees who did not display confidence were prioritized for supportive supervision and mentoring after the training

6.2 Clinical mentorship

Training should be backed-up with close mentoring to reinforce the skills acquired during the training and create more learning opportunities

Objectives

- 1. Reinforce knowledge and skills gained by health care workers during the EmONC training
- 2. Foster team growth and overall improvement in service delivery and health outcomes
- 3. Provide the opportunity to establish mentorship structures for continuous building of competences

Period: Clinical Mentoring will be conducted in 3 stages

Pre-mentoring assessment

Clinical Mentoring

Post-mentoring assessment

Approach

- Use a hybrid mentoring approach for capacity building
- Ensure mentees have regular contacts with a facility-based clinical mentor
- Provide external support from a more experienced/senior clinical mentor
- Outline tools and resources for each stage of the clinical mentoring cycle for each stakeholder

6.2 SfM Experience – Implementation Research

Conceptualization

SfM Experience

Implementation Research (IR) was carried out to generate context-specific evidence for safe and effective use of uterotonics to provide and manage PPH

Study Questions



Objectives



How acceptable is heat-stable Carbetocin to clinicians administering the uterotonic prophylactically?

What are the uterotonic drug use practices of clinicians in public health facilities for postpartum haemorrhage prevention?

What are the factors that enable the use of uterotonics in health facilities?

Ascertain acceptability of HSC to physicians, nurses, midwives in secondary health facilities for prophylactic use

Describe the current clinical administration practices for three prophylactic uterotonics in use in secondary and tertiary public health facilities: heat-stable Carbetocin, oxytocin, and misoprostol

Investigate the factors that enable the appropriate use of uterotonics in health facilities i.e., understand structural, behavioral, and procedural factors that support clinicians to use uterotonics

Data collection types targeted a variety of stakeholders as respondents in order to best respond to the aims of the study

Chart	Clinician	Facility
Abstraction	Assessment	Assessment
940 respondents	177 respondents	18 respondents
Training	In-depth	Key Informant
Evaluation	Interviews	Interviews
770 respondents	18 respondents	18 respondents

Collection and analysis of both quantitative and qualitative data were carried out to better understand and report on factors that determine the clinical management decisions on the utilization of a newly introduced medicine (HSC) for the prevention of PPH

6.2 SfM Experience – Implementation Research

SfM Experience

Assessment of clinicians acceptability of heat-stable Carbetocin for prophylactic use

Acceptance of heat-stable Carbetocin n(%)					
Uterotonic	Carbetocin	Oxytocin	Misoprostol		
Easy to administer	175 (99%)	176 (99%)	175 (99%)		
Safe for use during AMTSL	170 (96%)	151 (85%)	174 (98%)		
High risk of side effects	6 (3%)	66 (37%)	31 (18%)		
Side effects are easy to manage	102 (58%)	157 (89%)	141 (80%)		
Effective in preventing blood loss	167 (94%)	175 (99%)	171 (97%)		
Expensive	32 (18%)	27 (15%)	16 (9%)		

Comments on acceptability of heat-stable Carbetocin for prophylactic use

"Well, I would like to tell you that it is very, very effective and fast. Very fast. And the chances of bleeding is minimal, because I told you that if patient still bleeds after administering, it's due maybe to tear or retained tissue". [GH New Bussa, Principal Medical Officer]

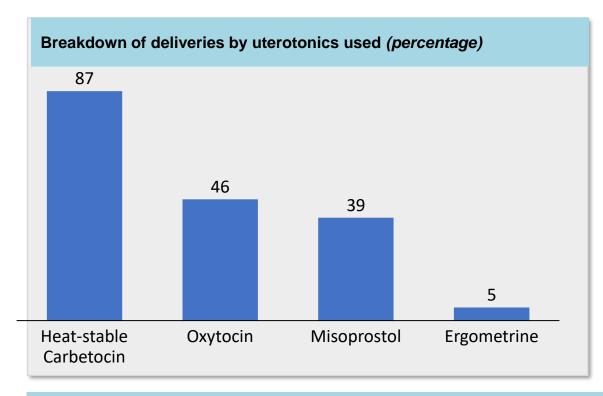
"Since they introduced carbetocin to us, it has really helped. It is a big relief to the patient and the husband, and we've been using it and so far, I have not noticed any side effect on any patient". [Gbagada GH, labour unit head; Deputy Director of Nursing Services]

"I think it is a wonderful drug that we have here. Where you might appreciate it more is in the theatre. The occasions we had CS, you know, when you are looking at the uterus live, most of the cases we give Carbetocin and you look at the uterus, it is so contracted". [Bida GH, Principal Medical Officer]

6.2 SfM Experience – Implementation Research

SfM Experience

Clinicians provided a description of intrapartum uterotonic drug use during the clinician assessments while chart reviews provided information on practices during AMSTL and conditions for use



Comments on clinical administration practices for three prophylactic uterotonics in use in secondary and tertiary health facilities

"Okay, with the introduction of the heat stable Carbetocin, postpartum, I give Carbetocin 100 microgram IV, deliver the placenta and then observe the patient. If I achieve a very good result, good uterine contraction, then I know there is no problem, vital signs are good, every thing is fine

"Well, oxytocin is an injectable uterotonic agent that is usually used as a prophylaxis for postpartum haemorrhage and then we also use it for induction of labour or augmentation of labour. Yes, so, while misoprostol, is in tablet form and we use it either sublingual or vaginally in the posterior fornix". [Bichi GH, Facility Manager; Chief Medical Officer]

"Once the patient is 8cm to 9cm dilated, then you set up your drip, then you can put oxytocin inside for it to be going slowly. Immediately after delivery, you give your heat-stable Carbetocin and if the patient is okay, there is no need adding anyone again".

Feedback on availability storage and ease of access

- Most of the KII and IDI respondents informed that uterotonics are always available at their facility
- One respondent complained about ease of access, as heat-stable Carbetocin is only available in the pharmacy and not in the labour unit
- A respondent noted that in some cases, one type of uterotonic drug might be stocked out while others are readily available
- The uterotonics commonly available across all facilities are Oxytocin, Misoprostol, and HSC
- In some facilities in Lagos, Ergometrine and a brand of Carbetocin, Pabal are also commonly available



"Presently now,
heat-stable
Carbetocin is
mostly
available".
[SMJGH,
Assistant Chief
Nursing Officer]

6.3 Lessons learned

- A mix of didactic training, on-the-job training, and mentoring yields better results in achieving the overall training objective of passing knowledge
 - Government needs to institutionalize the use of didactic training alongside on-the-job training and mentoring as the standard training approach
- Trainings should target the different cadres of health care workers to ensure uniform understanding and continuity of best practices
 - Some of the trainees, especially junior doctors and nurses, lacked prior knowledge on topics such as quality of care, pharmacovigilance, and MPDSR
 - Provision should also be made for in-facility step-down trainings in cases where there are insufficient resources to train all health workers across the state
- Health workers' training curriculum should also include modules on proper clinical documentation.
 - Many clinicians struggled to complete the partograph and were generally unaware of how clinical data is used across national data-collection platforms
 - More effort should be channeled by the government and partners to fill the gap with proper clinical documentation through routine trainings, demonstrations of the use of data for action, and regular supervision of health facilities
- The involvement of relevant stakeholders at the national and state levels, including institutions of higher learning is critical to ensure the institutionalization of training on new policies and guidelines
 - Government and partners should periodically explore updating the preservice training curriculum to include new policies and guidelines 93

Demand Generation

7.1 Development of a program communication plan

7.2 Lessons learned

SECTION 7

Section Overview

Demand Generation



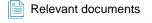
Objectives of playbook chapter

- Describe the approach for developing a robust communications plan to drive advocacy efforts
- Describe the advocacy approach to key stakeholders for the adoption of the WHO recommendation on use of uterotonics for PPH prevention
- Highlight continued engagements with facilitybased clinicians on their experience with the available uterotonics
- Share lessons learned from SfM's advocacy experience in the adoption of the WHO recommendations on use of uterotonics for PPH prevention



Key activities

- Development of a program communication plan
- Advocacy to national and state-level stakeholders
- Targeted healthcare worker engagement





Materials included









Smiles for Mothers' communications plan

Smiles for Mothers year 1 brief

7.1 Development of a program communication plan

Advocacy is very critical to demand generation. To drive demand for the implementation of an innovation, it is important to understand the relevant stakeholders' preferences

Stakeholder communication plan/advocacy plan comprise three main components



Message

Define the key messages for the advocacy and demand generation. These messages need to align with the program goals



Stakeholders mapping

Identify the relevant stakeholders, understand their roles and define expectations for each stakeholder



Channel of communication

Identify the best approach of communication with the stakeholders and frequency of communication

7.1 Development of a program communication plan – Key messages

There is a need to clearly define program's key messages, communication objectives, and rationale. This is very crucial to identifying the relevant project stakeholders.

Key messages

The adoption and the implementation of the 2018 WHO recommendations on the use of uterotonics for PPH prevention

Communication objectives

- To inform all relevant stakeholders of the 2018 WHO recommendations on the use of uterotonics for the prevention and management of postpartum haemorrhage
- To share the implementation experience from the rollout of the 2018 WHO recommendations on the use of uterotonics in Kano, Lagos, and Niger states
- To provide a rationale for the introduction of heat-stable carbetocin for the prevention of postpartum haemorrhage

- Rationale
- To inform policy change and systems improvement for PPH response
- To guide state governments and implementing partners on the adoption of the 2018 WHO recommendations using experiences from the Smiles for Mothers project
- To inform policy updates and potentially catalyze the adoption of heat-stable Carbetocin as a uterotonic option for the prevention of postpartum haemorrhage

- The use of the Human-Centered Design (HCD) as a tool for designing and implementing public health interventions
- To inform all relevant stakeholders on the use of human centered design approach as a tool for designing and implementing interventions
- To share the lessons learned and the impact from the innovations developed during the project using the humancentered design approach
- To educate the relevant stakeholders on the Human-Centered Design approach
- To accelerate the adoption of HCD for designing and implementing public health interventions
- To improve government's capacity to use HCD

SfM Experience

Appendix

SfM Experience – Key messages

The key messages must be aligned with the project deliverables

Key messages	Sub-themes	Sample topics (project deliverables)
The adoption and implementation of the 2018 WHO recommendations on the use of uterotonics	Financing and resource management	 Costed road maps for new drugs introduction Results from the cost-effectiveness model analysis for heat-stable carbetocin introduction Business case for heat-stable carbetocin Financing plan for uterotonics and phased introduction of HSC
	Patient Literacy and community sensitization	 Status update on community sensitization meetings Community sensitization plan Patient literacy materials on pregnancy and safe management of complications
	Service delivery	 Systems strengthening plan for MPDSR or QI teams Availability and uptake of uterotonics (including heat-stable carbetocin) in health facilities Innovative approaches to health worker training on the new WHO recommendation Lessons learned from the updates of the national protocols Safety update report on the use of heat-stable carbetocin
	Supply chain	 Situational analysis report from the quantification of heat-stable carbetocin Pharmacovigilance plan for heat-stable carbetocin introduction Strengthening cold chain system for oxytocin Innovations for the optimization of the supply chain for uterotonics Innovations for improving uterotonics data reporting
	I design, a tool for designing ublic health interventions	 Methodologies, tools and guides for HCD application Innovation roadmaps Stakeholders' ecosystem journey maps

Each message will be disseminated in line with the defined timelines for the completion of the deliverables

7.1 Development of a program communication plan – Stakeholders mapping

The RACI framework can be used to categorize stakeholders based on their level of involvement in the program sub-themes

		Target audience										
Key message	Sub-themes	National policy makers	State policy makers	Health Managers	Donor Organizations	Implementing partners	Health workers	Civil Society Organizations	Professional associations	Academia and researchers	Governor's wives	Communities
2018 WHO recommendations on the use of uterotonics for the prevention of postpartum haemorrhage	Financing and resource management	NA	✓	✓	✓	✓	NA	NA	NA	NA	NA	NA
	Patient Literacy and community sensitization	✓	✓	√	✓	✓	✓	✓	✓	✓	√	✓
	Service delivery	✓	✓	✓	✓	✓	✓	NA	✓	✓	NA	NA
	Supply Chain Management	√	✓	√	√	√	√	NA	√	√	NA	NA
	nan-centered design as a ing and implementing	✓	✓	✓	✓	✓	NA	NA	✓	✓	NA	NA

SfM Experience

SfM Experience – Stakeholders mapping

The target audience cuts across all relevant stakeholders in the maternal health space

Level	Designation of target audience	Expected role on the project
National policy	 Honorable Minister for Health 	 Endorse project implementation in Kano, Lagos, and Niger
makers	 Head of Department of Family Health, FMoH Head of Reproductive Health Division, FMoH Head of Safe Motherhood Unit, RH Division, FMoH 	 Facilitate the review of all relevant national protocols and guidelines in line with the 2018 WHO recommendations Promote scale-up of project innovations to the remaining states in Nigeria Oversee project implementation at the state level
	 Head of Food and Drugs Department, FMoH Head of Pharmaceutical Services Division, FMoH Assistant Director, Dept. of Food and Drugs, FMoH 	 Facilitate the review of all relevant national protocols and guidelines to include heat-stable carbetocin Disseminate updated document to states for adoption
	 Executive Secretary, NPHCDA Director Community Health Services, NPHCDA Program Manager, NEMCHIC 	 Oversee project implementation at the PHC levels Support alignment of project innovations with NEMCHIC strategies Promote scale-up of project innovations to other states in Nigeria
	Director General, NAFDACDirector, Pharmacovigilance	 Approve and register heat-stable carbetocin for vaginal delivery Facilitate and ensure publication of information on quality uterotonics
State policymakers (Executive leaders)	 State Commissioners for Health Permanent Secretaries Heads of agencies (SPHCMB/DAs, HMBs, DMAs) 	 Endorse and oversee project implementation at the state level Update all necessary state protocol and guideline in line with the 2018 WHO recommendations Mobilize resources to implement project innovation and procure uterotonics
State Health managers	 Directors of Family Health Directors Medical Services Directors of Pharmaceutical Services Director of Drugs, Drugs Management Agencies Directors, Community Health Services Directors, Planning and Research Services State MNCH coordinators State Reproductive Health coordinators 	 Facilitate planning and discussions to drive policy changes on the use of uterotonics in the state Implement and track the use of the updated state's policy at the facility and community levels Manage day-to-day implementation of the project innovations across all state levels and track results
	Chairmen, MPDSR committees	100

Development of a program communication plan

There are various communication channels to engage stakeholders and also disseminate program lessons

Categories	Medium	Definition
Events	1 Seminars/webinars	 A gathering of people primarily for the purpose of discussing a topic or teaching a new concept
	2 Conferences	 A meeting with a larger audience primarily for consultation and exchange of idea on a particular theme
	3 Liaison/review meeting	 A small group meeting with key stakeholders to align on specific project ideas
4444	Learning exchange meetings	 A knowledge sharing/problem solving forum with stakeholders on a topic of interest
Print media	5a Briefs	 A document that outlines a summary of the project ideas
	5b Program reports	 A document that details the status update of the project
Publications	6 Published scientific articles	 An academic documentation of a study published in a journal
Electronic media	7a Update e-mails	 An electronic messaging platform to defined stakeholders
	7b E-newsletters	 An electronic report detailing the highlights of activities/events conducted
Online media	8a Medium	A web-platform used for displaying and archiving information related to the project
Broadcast media	9 Video documentaries	 A short motion picture used for visual documentary of specific information
	10 Radio talk shows	 An interactive radio program in which listeners are invited to contribute via call or physical presence

The program also leveraged the Nigeria Health Watch existing platforms -Radio shows, blogs, social media handles, and events to disseminate the program key messages

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7.1 SfM Experience – Dissemination of program learnings to stakeholders

SfM Experience



Panel session with UNFPA, Sosocares, ARC-ESM and rep from Yobe state DMA



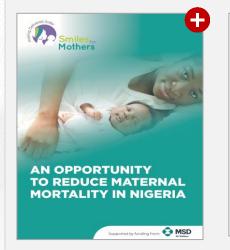
Participants in state-based groups engage in discussions at the Learning Exchange workshop



Screenshot of the human-centered design (HCD) webinar



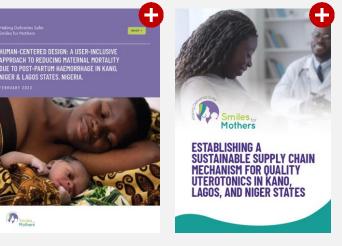
Human Centered Design poster



Front cover of the year 1 program brief



Screenshot of the fifth edition SfM monthly newsletter



Supply Chain and Human-centered

Design briefs

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Conceptualization

Appendix

SfM Experience – Heat-stable Carbetocin Launch Event

SfM Experience

- Smiles for Mothers program in collaboration with the Federal Ministry of Health, the State Ministries of Health and health agencies of Kano, Niger, and Lagos States, World Health Organization, MSD for Mothers, Ferring Pharmaceuticals, and IDA Foundation to mark the first use of heat-stable Carbetocin (HSC) in Nigeria and sub-Saharan Africa.
- The goal of the event was to spotlight efforts to improve maternal health outcomes in Nigeria by ensuring the availability of uterotonics and improving healthcare provider knowledge and practices.

Pictures from the event



Participants at the HSC Launch Event



SfM program director giving a speech



Stakeholders at the event



SfM team at the event

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7.2 Lessons learned

- Mapping out a clear communication strategy for stakeholders helps to ensure targeted engagements throughout the program implementation
 - A strategic communication plan helps define the engagement scope for each stakeholder
- Strategic and continuous engagement with stakeholders helps identify new opportunities to leverage for the scale-up of innovations
 - There is a need to coordinate with donors and implementing partners to integrate resources for the scale-up of program innovations
 - Seeking feedback from stakeholders on a regular basis helps to strengthen their commitment
- Tracking stakeholder engagement helps refine communication approaches
 - Analyzing stakeholder engagement with the different communication approaches is key to improving advocacy

Client's Journey

- 8.1 Development of patient literacy materials
- 8.2 Demand generation for facility based antenatal services and delivery
- 8.3 Lessons learned

SECTION 8

Section Overview

Client's Journey



Objectives of playbook chapter

- Share the process and tool for developing the patient literacy materials
- Describe how the patient literacy materials will be used as a community engagement tool to generate demand for facility-based antenatal services and delivery
- Share challenges, lessons learned and recommendations for implementing a community engagement tool to increase demand for facility-based antenatal services and delivery



Key activities

- Development of patient literacy materials
- Demand generation for facility based antenatal services and delivery





Materials included



Patient Literacy Materials

Development of patient literacy materials 8.1

Develop Patient Literacy Materials through research and stakeholder consultations in each state



Development process

Conversations with women in the communities to understand the knowledge gap and their delivery experiences

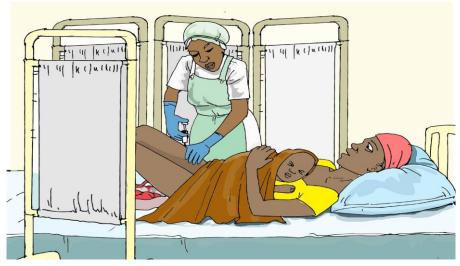
Synthesized concise messages from the conversations

Refined messages through engagements with key opinion leaders

Final set of images across 4 themes

The patient literacy materials are used as a community engagement tool to generate demand for facility-based antenatal services and delivery





8.1 SfM Experience – Development of patient literacy materials

SfM Experience

Multi-stakeholder consultations informed revisions

Finalization of key messages



Development of illustrations



Internal review of illustrations and messages



State-level testing and approval



Final printing and dissemination

Kano

- Worked with State Health Educator to select 2 communities
- Translated key messages to Hausa Language
- Liaised with TBAs and health facilities to identify 20 women who qualify as target audience
- Conducted testing sessions
- Updated documents and finalize with State Health Educators
- Received government approval for the materials

Lagos

- Worked with State Health Educator to select 2 LGAs
- Liaised with LGA Health Educators to select participants
- Conducted pilot testing sessions with 16 women
- Updated documents and review with State Health Educators
- Translated materials into Yoruba and Pidgin English
- Finalized and received government approval for the updated materials

Niger

- Selected 3 communities where 31 women participated in the focus group discussions
- Translated key messages into Hausa, Nupe, and Gbagyi
- Liaised with state HCD champions to test the patient literacy materials
- Reviewed and finalized documents with state to make updates



Testing of patient literacy materials in Ibeju-Lekki LGA, Lagos State

The Patient Literacy Material is designed to be relevant the local community context and can be translated into various local languages to address specific knowledge gaps related to maternal health.

Demand generation for facility-based antenatal services and delivery

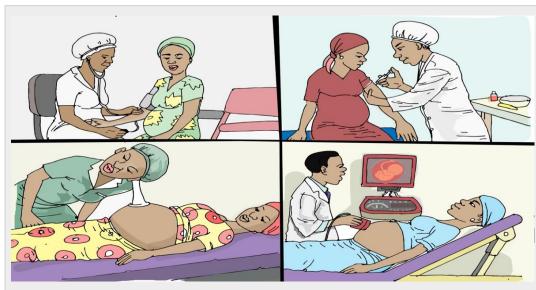
Design patient literacy materials to drive uptake of ANC services and delivery at the health facilities



During antenatal sessions. you will receive information about what to expect throughout pregnancy, during labour and after delivery, and how to have a safe pregnancy and delivery



You could be at risk of PPH if you have low blood levels in pregnancy (anemia), many previous births, hypertension, pre-eclampsia in pregnancy or a family history of PPH, etc. Register in a facility near you and complete 8 antenatal visits.



The health care worker will examine you during the antenatal sessions to ensure that you remain healthy, identify if you are at risk of serious illness and help you to prevent complications.



You should ensure to keep fit and active before pregnancy so that you can remain healthy. You can speak to a healthcare worker for quidance on exercise.

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8.2 SfM Experience – Demand generation for facility-based antenatal services and delivery

Patient literacy materials are used to educate women on the importance of seeking care at the health facilities

SfM Experience

The patient literacy materials were primarily used within communities, to educate women who may not ordinarily attend health facilities in order to generate demand for facility-based antenatal services and delivery. They were disseminated to different health facilities in the program states to raise awareness about the use of uterotonics to prevent PPH.





The program worked with state officers in the community engagement space to identify 90 community engagement personnel (30 in each program state) who were local to communities surrounding the 18 program implementation facilities.

Over a **6-month period**, the community engagement personnel reached **13,985** women of reproductive age, and men with relevant information to increase demand for facility-based services. The health literacy enhancement efforts especially targeted wellness in pregnancy, danger signs of pregnancy, and health care services required to significantly reduce maternal and newborn mortality in Nigeria.

Conceptualization

Appendix

8.3 Lessons learned

- Women in the community remain open-minded and embrace opportunities to gain more knowledge on their reproductive life, and respectful maternity
 - There is a need for integration of community engagement platforms and resources as well as improve coordination of community engagement activities across programs.
 - Government and partners need to channel more resources to strengthen community engagement in order to promote health knowledge in communities.
- The use of patient literacy materials (PLMs) is a good first step in addressing beliefs and perceptions in the community about facility deliveries
 - This would help drive demand for in-facility deliveries especially if engagement is sustained.
- The adoption of the responsive feedback approach in developing patient literacy materials helped to ensure relevant, concise, fit-for-purpose information material that met the expectations of various stakeholders
- The focus on purposeful visuals and translation into the local languages helps to enhance the ease of use of the PLMs and drives target users' interest
 - Community volunteers needs to be empowered to deliver health talks in the community using PLMs (flip charts and posters).

Conclusion

General lessons learned 9.1

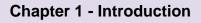
- A diverse set of stakeholders, including government and partners play a role in the contextualization, dissemination, and application of a new guideline.
- Government ownership and early buy-in of stakeholders is essential for a holistic and rapid review of any guideline or document.
- Sustainable financing for life-saving commodities requires understanding the total commodity requirements through effective quantification or commodity forecasting; an investment case is also critical to enable policymakers to make the right choice on uterotonics and also help drive the interest of potential investors.
- Supply planning should factor in potential delays in the supply chain processes that may extend the lead time for delivery of supplies, including unforeseen geopolitical events such as wars and pandemics like COVID-19.
- A mix of didactic training, on-the-job training, and mentoring yields better results in achieving the overall training objective of passing knowledge.
- Strategic and continuous engagement with stakeholders helps identify new opportunities to leverage for the scale-up of innovations.
- The use of patient literacy materials (PLMs) is a good first step in addressing beliefs and perceptions in the community about facility deliveries the scale-up of innovations.

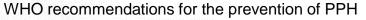
Appendix

Playbook Introduction

Supporting documents

Click the text to access the documents on the shared drive





WHO model list of essential medicines

Chapter 2 - Conceptualization

Costed roadmap guide/template

Journey Map

Conceptualization report

Policy adoption journey

Product pathways

Project kick-off agenda and document

Stakeholder ecosystem map

Chapter 3 - Policy Review

Life Saving Skills Manual

NAFDAC approval

Nigeria essential medicines list

States essential medicines list



Chapter 4 - Sustainable Financing

Cost-effectiveness and clinical impact models

DRF playbook

Forecast and quantification models

State specific roadmaps for sustainable financing

Chapter 5 - Supply Chain

ADR reporting form

ADR e-reporting form

Health Facility Pre & Post Test Assessment Questions

Health facility training Workbook

Med safety application



NPSCMP SOPs

Paper-based and electronic LMIS tools

Pharmacovigilance plan for HSC introduction

Pharmacovigilance training material

Process flow map for mentoring

Supply chain training materials - Managers & Logisticians

Supply chain training materials – Pharmacists & pharmacy technicians



Chapter 6 - Service Provision

Demonstration videos

Partographs

FIGO guidelines

Mentoring workbook SOGON guidelines

Training agenda

Training modules

Training pre and post tests

Chapter 7 - Demand Generation

Learning exchange documents and technical reports

Smiles for Mothers communication plan

Smiles for Mothers' 2-pager brief

Smiles for Mothers' program newsletters

Smiles for Mothers' program pitch deck

Smiles for Mothers year 1 brief

Chapter 8 - Client's Journey

Patient Literacy Material







10.2 Supporting documents

Scan the QR code to access the supporting documents on the shared drive

