

Quality, Equity, Dignity A Network for Improving Quality of Care for Maternal, Newborn and Child Health

Addressing inequalities through the MPDSR system: Lessons learned from Sierra Leone

Tuesday, 8 March 2022 1pm Freetown, 2pm Geneva, 6:30pm New Delhi



Addressing inequalities through the MPDSR system: Lessons learned from Sierra Leone

INTRODUCTION



Ms Francesca Palestra, Technical Officer, Maternal Health Team Department of Maternal, Newborn, Child and Adolescent Health and Ageing (MCA) WHO Geneva

8 March 2022





INTERNATIONAL

Women's Day

Addressing inequalities through the MPDSR system: Lessons learned from Sierra Leone

Introduction: Ms Francesca Palestra, Technical Officer, Department of Maternal, Newborn, Child and Adolescent Health and Ageing, WHO Geneva

Part 1: Sierra Leone's experience in implementing the MPDSR system: Dr Francis Moses, Programme Manager, Reproductive Health and Family Planning Programme Ministry of Health and Sanitation, Sierra Leone

Part 2: Panel Discussion: Matron Margaret Mannah, Programme Manager, National Quality Management Programme Dr James Squire, Programme Manager, National Disease Surveillance Programme Ministry of Health and Sanitation, Sierra Leone

Questions & Answers

Closing remarks: Ms Francesca Palestra, WHO Geneva





Addressing inequalities through the MPDSR system: Lessons learned from Sierra Leone

QUESTIONS

For the <u>Questions & Answers</u> we invite questions from all participants.

Please place your questions in the CHATBOX





Country Experience: Addressing Preventable Maternal and Perinatal Deaths During Pregnancy and Childbirth by Implementing The Maternal And Perinatal Death Surveillance And Response (MPDSR) System



Dr Francis Moses Program Manager for Reproductive Health and Family Planning Ministry of Health and Sanitation, Sierra Leone









Content

01 Background

02 Current MDSR System

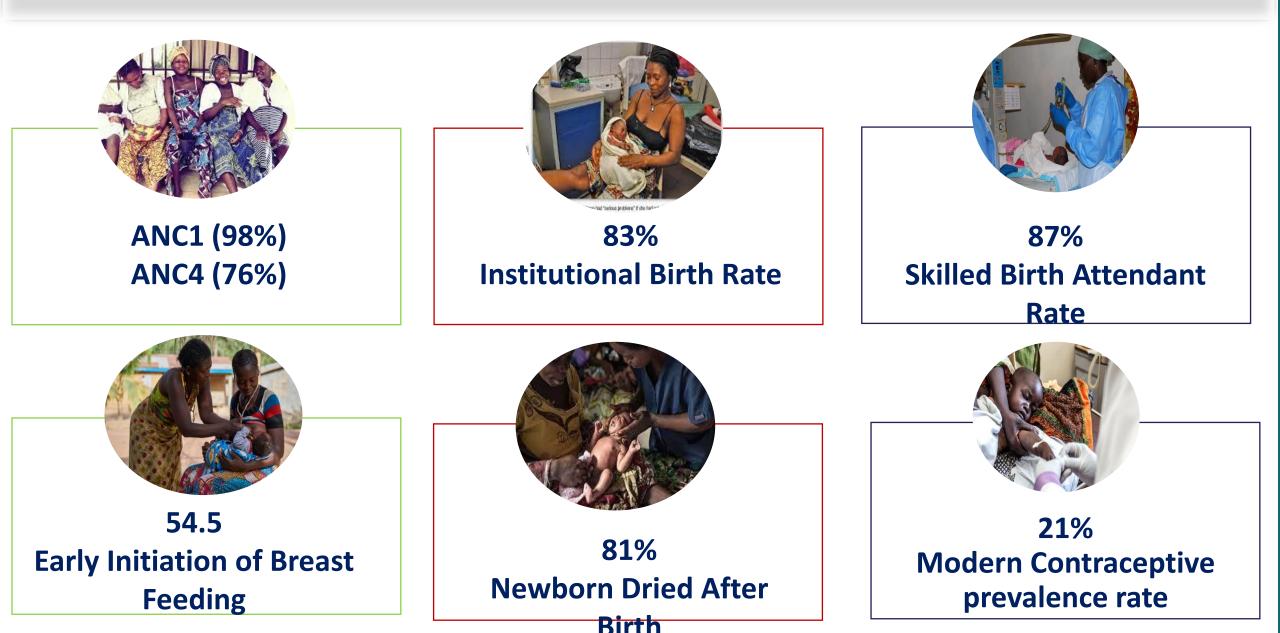
O3 Behind the numbers

04 Challenges, Way forward and Recommendations

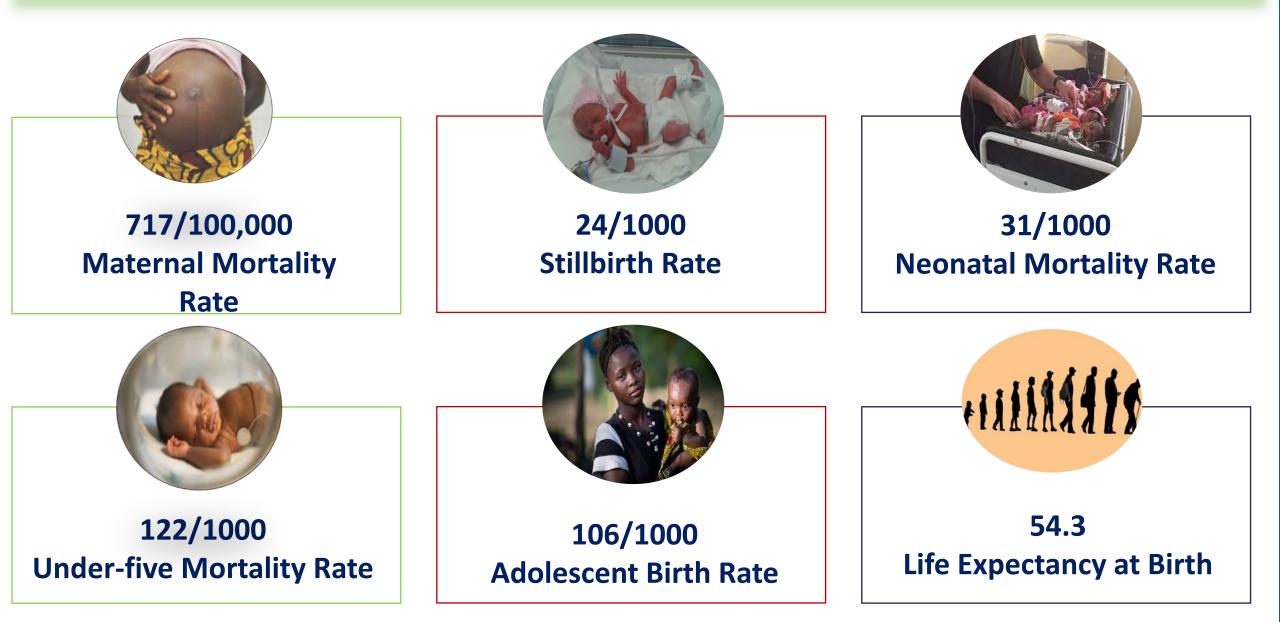
Key Health and Demographic Statistics



Key Maternal and Child Health Statistics



Key Impact Indicators



Gender Related Statistics

Percentage of married women participating in decision making

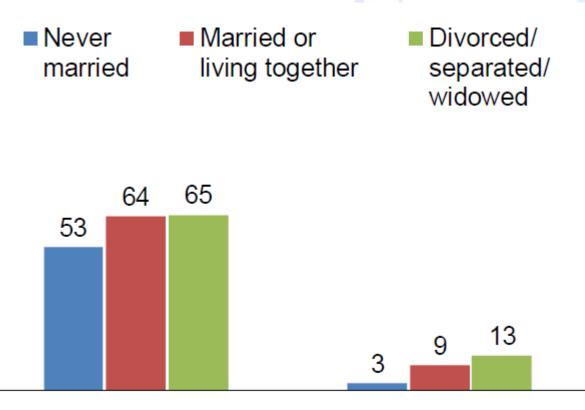
Percentage of women participating in decision Making for Family Planning among current user of FP

Woman's own health care	44
Major household purchases	47
Visits to family or relatives	46
Participate in all 3 decisions	35
Participate in none of these decisions	43

Background characteristic	Main wife	ly hus		Mainly Isband
Age 15-19	55.6	36.8	7.5	0.0
20-24	43.6	38.0	18.4	0.0
25-29	50.6	32.9	16.5	0.0
30-34	46.5	38.1	15.3	0.1
35-39	52.8	35.2	12.0	0.0
40-44	53.3	32.7	13.9	0.0
45-49	46.2	39.2	14.6	0.0
Total	49.7	35.5	14.8	0.0

Key Gender Related Statistics

Women's Experience of Violence by Marital Status (DHS 2019)

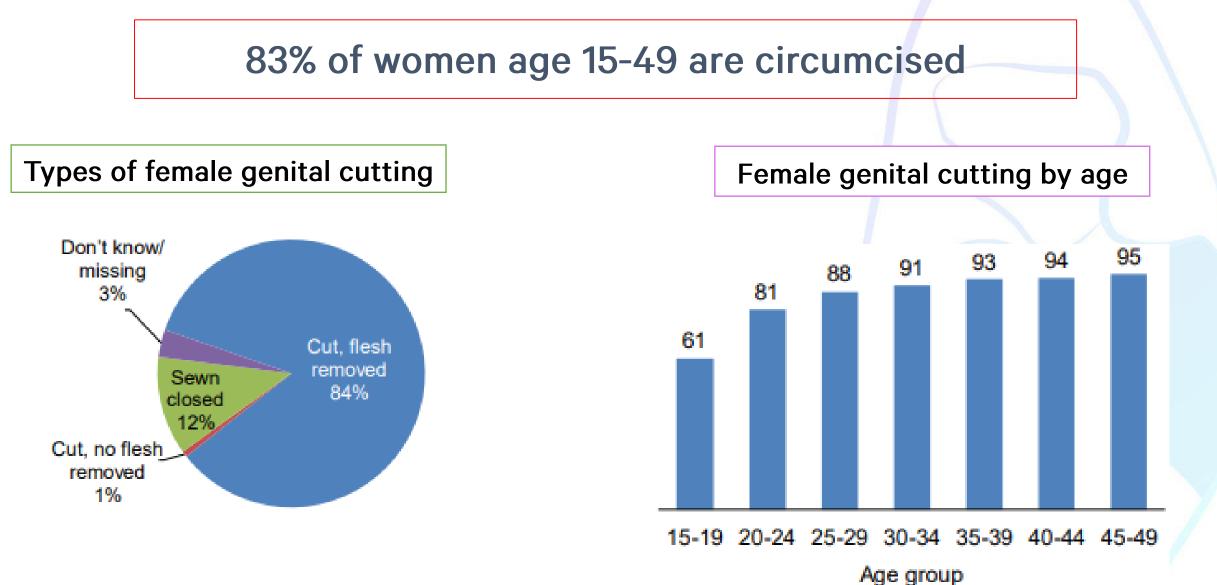


Percentage who have experienced physical have ever experienced violence since age 15 sexual violence

<u>GBV</u>

Overall, 61% of women aged 15 to 49 have experienced physical, sexual, or emotional violence since age 15.

Prevalence of Female Genital Cutting



In Summary

Poor Gender and Women's Empowerment Indicators

Inadequate Skilled Human Resources for Health

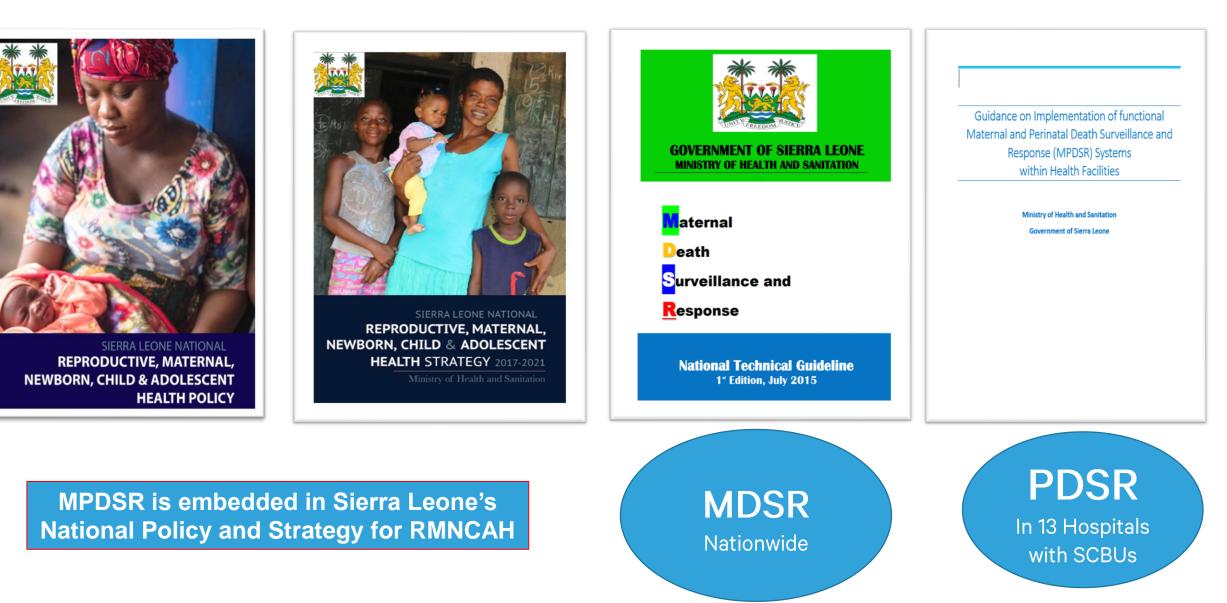
Relatively Good Process Indicators for RMNCAH (Good ANC Coverage and Institutional delivery rates)

Poor Outcome Indicators (High Maternal, Perinatal and Child Mortality Rates)

Goals of RMNCAH Investment Case and Midterm Development Plan

- Achieve gender equity and equality in all sectors and enable women to take their rightful position in national development, and political leadership and decision-making;
- Eliminate all forms of GBV and Discrimination
 - Drastically reduce (**by more than 50 percent**) the number of women experiencing GBV
- Health Systems Strengthening for RMNCAH
 - Accelerate reduction of preventable deaths of women, children and adolescents and ensure their health and well being.

Institutionalization of MPDSR in Sierra Leone



MPDSR System Objective



Reporting System

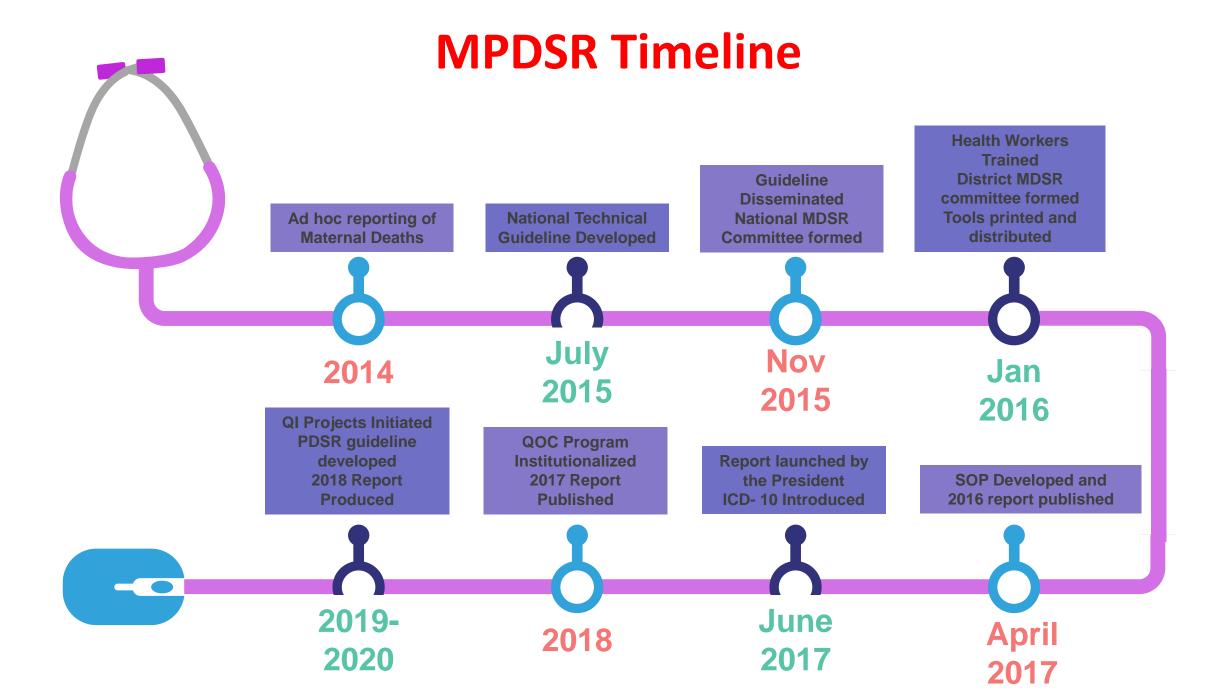
To generate accurate and timely maternal and perinatal mortality data

Review System

To **identify** major medical and non-medical causes of maternal and perinatal death.

To formulate appropriate **interventions** to address these causes.

To institute **improvements** in the service delivery system.



Surveillance System for MPDSR

Maternal and Perinatal Death Screening, Notification and Reporting



MINISTRY OF HEALTH AND SINITATION REPUBLIC OF SIERRA LEONE

TECHNICAL GUIDELINES FOR INTEGRATED DISEASE SURVEILLANCE AND RESPONSE



THIRD EDITION

JANUARY 2020

, 		Week:
Disease	Cases	Deaths
Acute Flaccid Paralysis		
Acute Viral Haemorrhagic Fever		
Acute jaundice syndrome syndrome Adverse events following immunization		
Animal bite – Dog		
Animal Bite – Snake		
Bacterial Meningitis		
Cholera		
COVID-19 (Suspected)		
Diarrhoea with severe dehydration in < 5 years Dracunculiasis (Guinea worm)		
Dysentery (Bloody diarrhoea)		
Measles Malnutrition severe		
Total Clinical Malaria cases		
Total Malaria cases tested		
Total Malaria cases positive		
Maternal death		
Monkey Pox		
Neonatal Tetanus		
Non-Neonatal Tetanus		
Perinatal and Neonatal Death – Stillbirth		
Perinatal and Neonatal Death - Early Neonatal		
Perinatal and Neonatal Death - Late Neonatal		
Pneumonia severe		
Typhoid Fever		
Yellow Fever		

acility name and type:			Chie	fdom:			
eporting Officer:			Sig	nature:			
NC Iron Folic Acid supplementation 3rd				HPV 1st dose			
peat				Live birth in t	facility		HPV 2nd dose
NC deworming medication				Still birth free	sh in facility		
NC 1st visit - screened for syphilis				Still birth ma	cerated in fac	sility	
NC IPTp 1st dose				Birth weighe	d within 24 h	ours	
NC IPTp 2nd dose				Birth weight	under 2.5 kg		Normal Delivery
NC IPTp 3rd dose				Live birth <=	36 weeks ge	estation	Assisted Vaginal De
				Breastfed wi	thin 1 hour of	fbirth	Caesarian Section
	_		_				
Maternal cases and death in facility	Cases			ath Languige			
Complications	All ages	10-14 yrs	15-19 yrs	20-24 yrs	25+ yrs		
bstetric - pregnancy abortive							
bstetric - pregnancy induced hypertension							Misoprostol ONLY
bstetric - Haemorrhage							Combined (Misopro
bstretic - Pregnancy related infection							Manual Vacuum Asp
bstretic -Ruptured uterus							Surgical (Dilatation a
bstretic - ectopic pregnancy							
bstretic - obstructed labor							
direct - Malaria							
direct - Anaemea							
							Postpa
direct - other obstetric complications							Postpartum woman
direct - other obstetric complications bstetric - Other complications							r ootpartan wonan

Electronic Data Entry for IDSR Easier, Faster... Hence more compliance to reporting weekly data

Q	16:39 🗊 🕺 🕷 🖿
≡ Aggregate Repo	ort
Njandama MCHP	×
IDSR Weekly Disease Report(WDR)	×
W44 2016-10-31 - 2016-1	1-06 ×
IDSR Weekly Disease Re Period: W44 2016-10-31 - 2016 Organisation Unit: Njandama	5-11-06 >

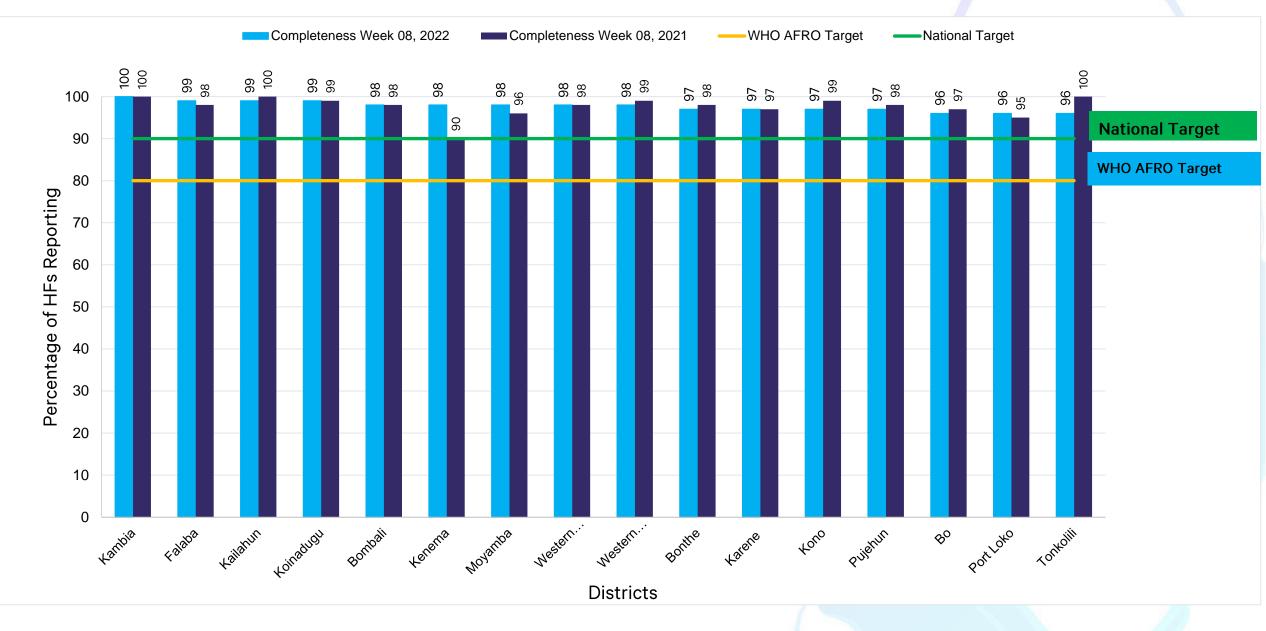
	16:41 🕯 🛋 16:41
← Njandama N Week 44	ИСНР
Disease/Condition/ Event	< 5 Years old> 5 Years oldCasesDeathsCasesDeathsCasesDeaths
Acute Flaccid Paralysis	
² Acute Jaundice Syndrome	
3 Acute Viral Haemorrhagic	
4 AEFI (Adverse Effects Following	
5 Animal Bite (dog, cat)	
6 Anthrax	
7 Buruli Ulcer	
8 Cholera 🗖	SUBMIT

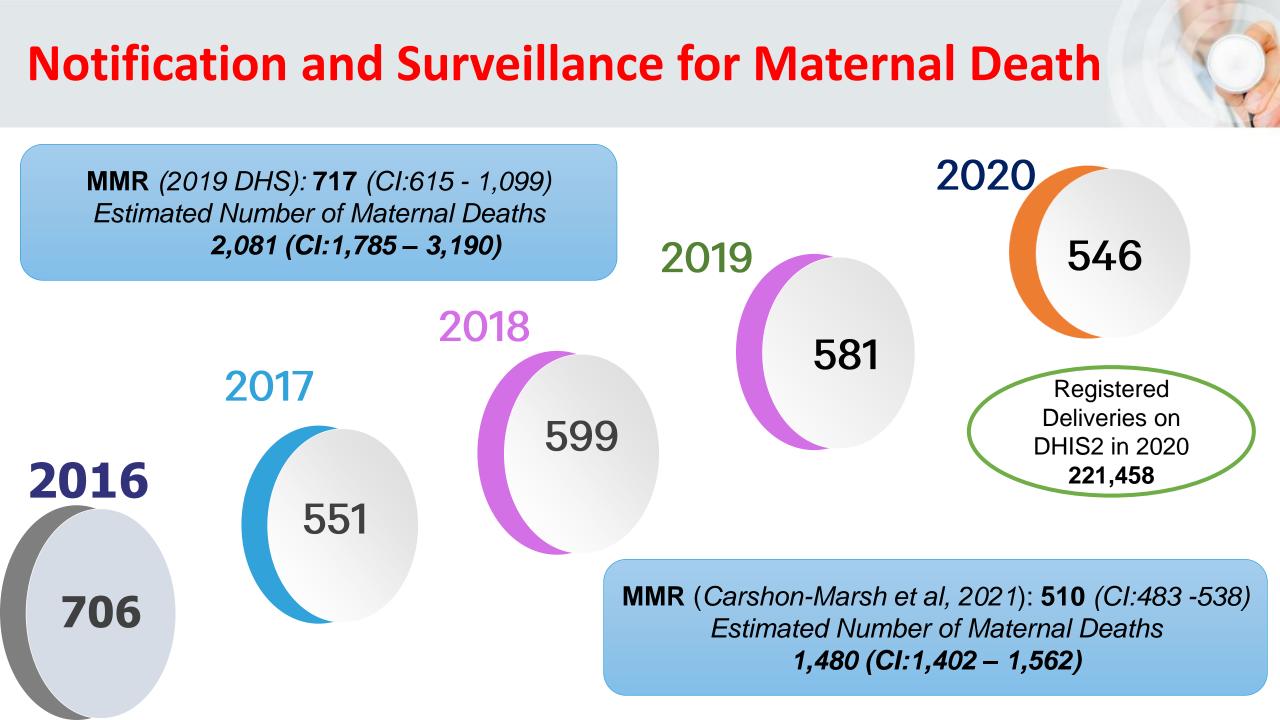


A frontline health worker spends few minutes on Monday morning to transmit weekly surveillance data



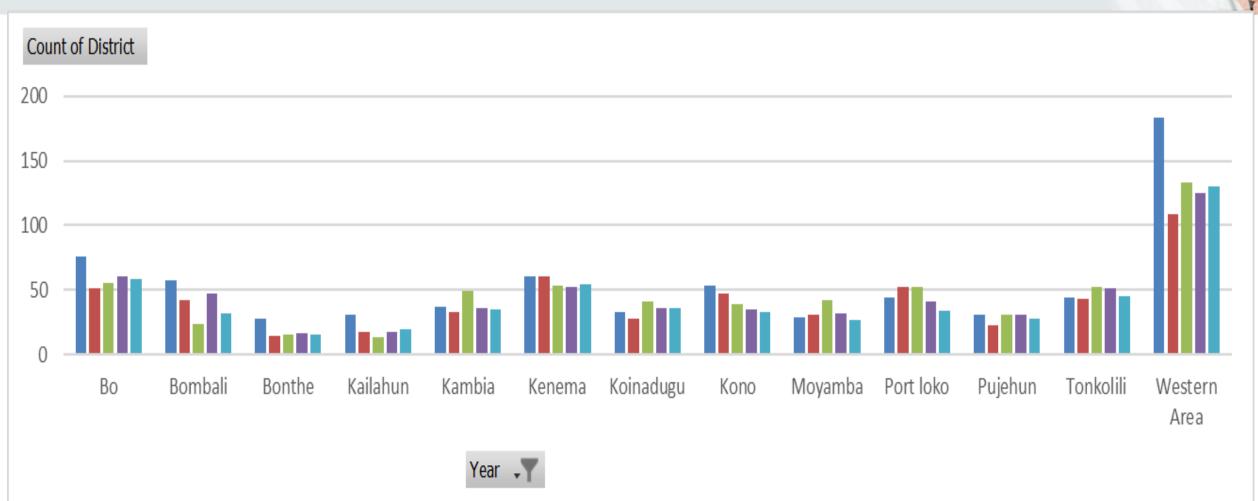
Health Facility Weekly IDSR Reporting Rate





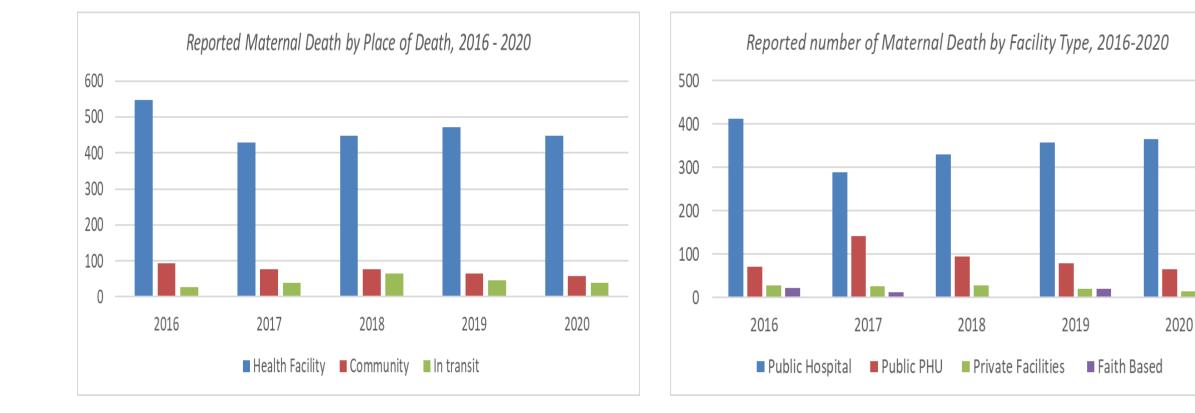
MMR Estimate Carshon-Marsh et al, 2021	Expected Maternal Deaths	Reported Maternal Deathss	% Reported	Unreported (Gap?)		
510 (Cl:483 -538)	1,480 (Cl:1,402 – 1,562)	546	37% (35% - 39%)	63% (61% - 65%)		
					60% of Maternal Deaths unknown	
					MN	

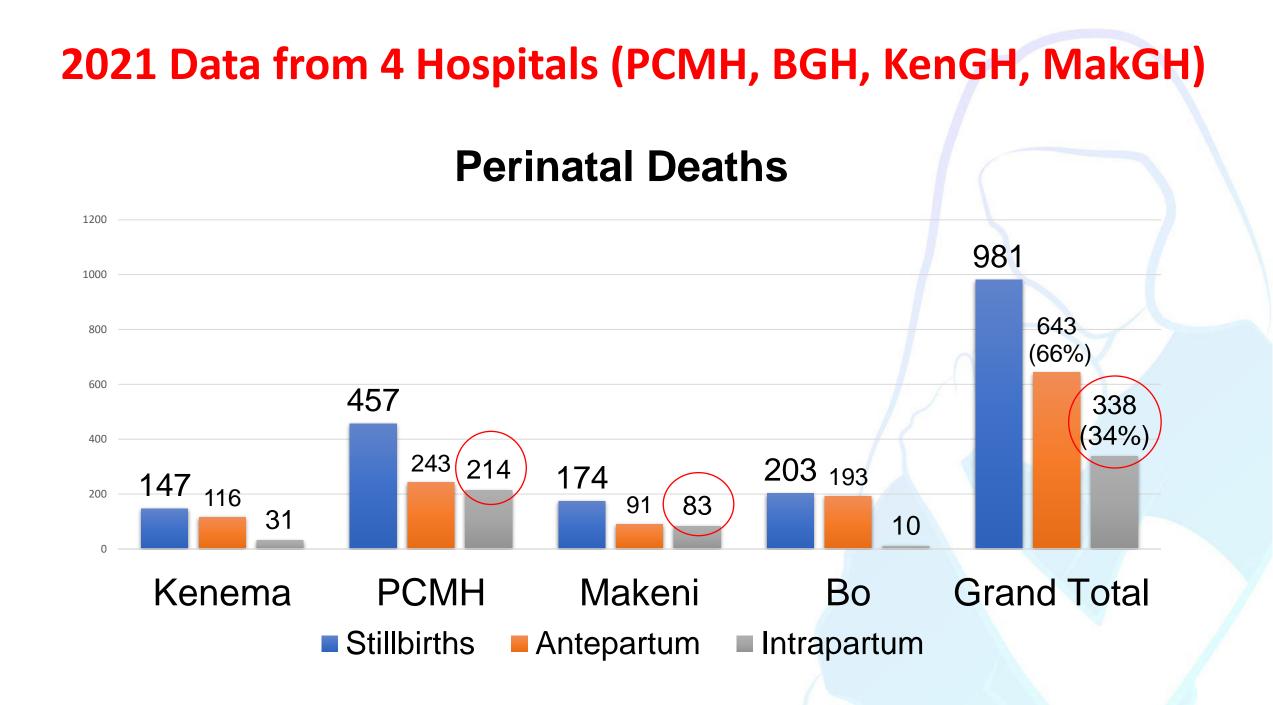
Reported Maternal Death by District (2016-2020)



■ 2016 ■ 2017 ■ 2018 ■ 2019 ■ 2020

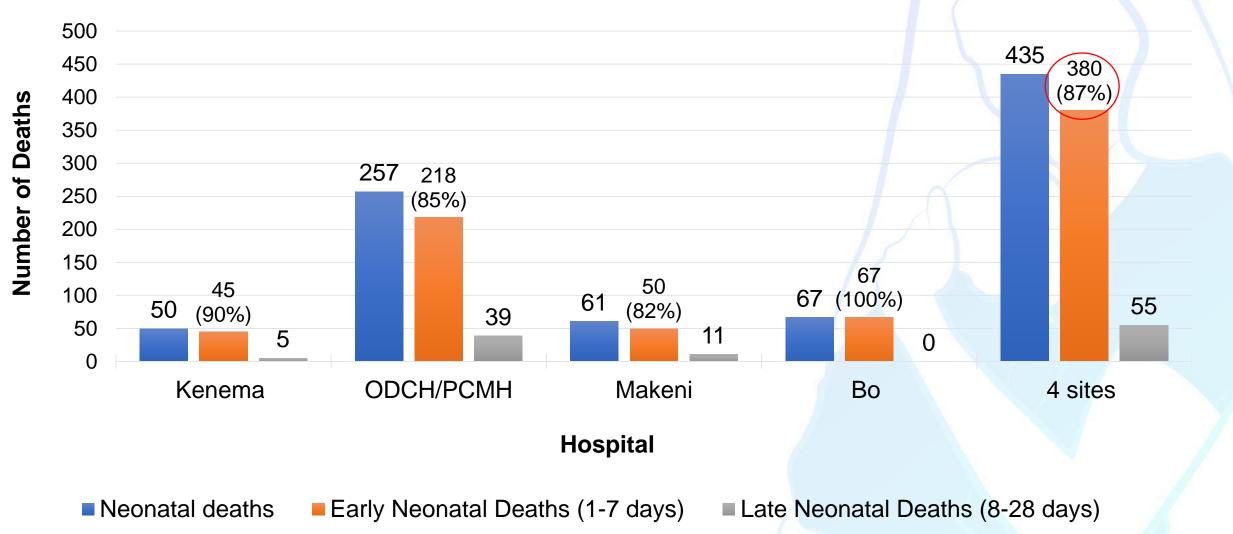
Place of Maternal Death, 2016 - 2020

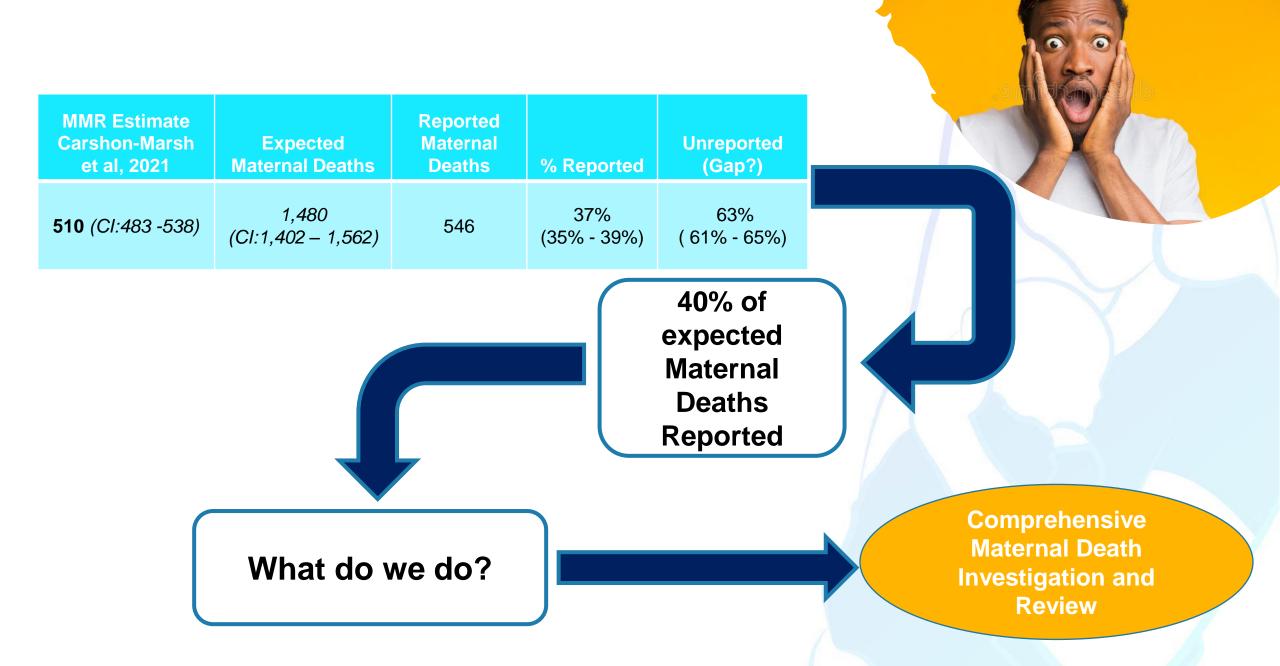




2021 Data from 4 Hospitals (PCMH, BGH, KenGH, MakGH)

Neonatal Deaths





Who Conducts the Maternal Death Investigations and Reviews?

Investigation Team

- District Disease Surveillance Officer
- MDSR Coordinator
- Midwife Investigator

Review Committee

- National Committee meets quarterly
- District Committee meets monthly
- Hospital Committee meets weekly/fortnightly/monthly



Comprehensive Maternal Death Investigation and Reviews

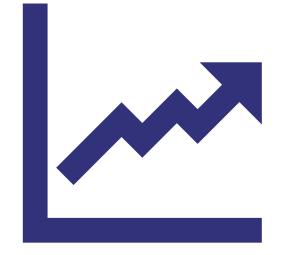




Maternal Death Line List – Online Form Created in DHIS2 (2022)

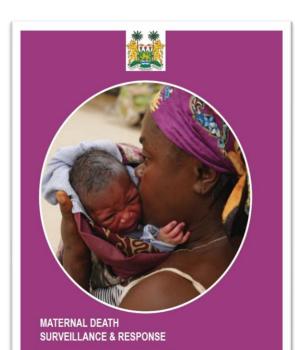
~ ^			-					•	"	•					ч	"	, v	'	, v				
								(Total No.	(No. of	No. of		mother died	Maternal	deaths select	For health	Date of admission	admission (For	Date of death (For	(For health				cause of
		Epi_Week_					Place of residence:	of	previous	ANC		(During	death	category of	facility deaths,	(For health facility	health facility	health facility	facility				death not
_	Date death	Death	Age	District of	District of	Chiefdom	Town OR Village OR	Pregnan <u>cie</u>	deliverie	Contacts	Mode of delivery.	Pregnancy.	(Communi <u>tv</u>	facility	specify Name of	deaths)(Month/	deaths) 24 hr	deaths)(Month/	deaths)24 hr	Reason for		Cause of Maternal Death	listed in
Sno 🔻	occurred 💌	Occurr(*	(Year ▼	Death 🔻	Residen 🔻	/Ward N 💌	Street Address 🔻	s includ 🔻	s liv 🔻	0-> *	Select from me 🔻	During 🔻	In transit, 🍸	(Govt.Hospi 🔻	facility	Day/Year) 💌	System e.g. 🏾 💌	Day/Year) 🖵	System e.g. 🍸	Admission	Referred From 🔻	(ICD-10 Code)	/ previous
37	17 September 2018	38	35	Bo	Во	Kakua	konia	11	10	1	Undelivered	After Delivery	In transit									(072.1)	
38	17 September 2018	28	27	Bo	Во	Baoma	Yakaji	3	2	3	Undelivered	After Delivery	In transit									(072.1)	
52		52		Bo	Во								Health Facility										
53		52		Bo	Во								Health Facility										
54		52		Bo	Во								Health Facility										
55		52		Bo	Во								Health Facility										
81	16 March 2018	11	28	Bonthe	Bonthe	Sogneni	Tihun	6	5	3	Normal SVD	After Delivery	Community									Puerperal Sepsis (085)	
82	13 May 2018	19	32	Bonthe	Bonthe	Jong	Mosavie	5	4	3	Undelivered	During Labour	In transit									Placenta (045.9)	
83	26 May 2018	21	20	Bonthe	Bonthe	Kwame Bai Krim	Fulawahun	2	1	3	Normal SVD	After Delivery	In transit									(072.1)	
84	4 July 2018	27	26	Bonthe	Bonthe	Dema	Moigbo	6	5	2	Undelivered	During Labour	In transit									APH (046)	
103	14 October 2018	41	28	Kailahun	Kailahun	Luawa	Sandia	5	4	0	Miscarriage/Abortion	During Pregnancy	In transit		In transit						No	Pregnancy or Abortion (008.1)	
105	01 November 2018	44	19	Kailahun	Kailahun	Jawei	Folu	1	1	1	l Normal SVD	After Delivery	Community									(072.1)	
160		52	27	Tonkolili	Tonkolili	Yoni	Mile 91	3	2	>4	Normal SVD	After Delivery	In transit		In transit					PPH	In transit	(072.1)	
270		52	25	Moyamba	Moyamba	Kaiyamba	No. 10 Cole street, Salina	4	3	0	Miscarriage/Abortion	During Pregnancy	Community									Malaria (098.6)	
333	28 January 2018	4	34	Western Urban	Western Urban		MAWEL STREET WELLINGT	ron	1			After Delivery	In transit									Rupture of Uterus (071.0)	
351	25 April 2018	17	42	Western Urban	Western Urban		ALLENTOWN	4	4		Normal SVD	After Delivery	In transit							PPH	ALLEN TOWN MCHP	(072.1)	
419	27 January 2018	4	26	Kambia	Kambia	Samu	Camp D	ז	6	>4	Normal SVD	After Delivery	In transit		Transit					Transit	Kassoria CHC	(072.1)	
430	5 June 2018	23		Kambia	Kambia	Mambolo	Matatie						Community		Community					Community	Community		
439	6 November 2018	45		Kambia	Kambia	Magbema	Bamoi Luma		1		Undelivered	During Pregnancy	Health facility	Govt. Hospital	Kambia Govt Hospital	06/09/18							
500		52		Port loko	Port loko	Bakeh Loko							Health Facility	Govt. Hospital	Port Loko Govt Hospi	08/12/18	16:45:00						
512		52	18	Port loko	Port loko	Kaffu Bullom		1	0			After Delivery	Health Facility	Govt. Hospital	Lungi Govt Hospital	07/01/18							
584		52		Western Urban	Western Urban								Health Facility	Private Facility	Aberdeen Women Cen	tre							
585		52		Western Urban	Western Urban								Health Facility	Private Facility	Aberdeen Women Cen								
586		52		Western Urban	Western Urban								Health Facility	Private Facility	Aberdeen Women Cen	tre							
587		52		Western Urban	Western Urban								Health Facility	Private Facility	Aberdeen Women Cen	tre							4
588	2 May 2018	18		Western Urban	Western Urban								Health Facility	Govt. Hospital	Military 34							(072.1)	

Analysis and Reporting

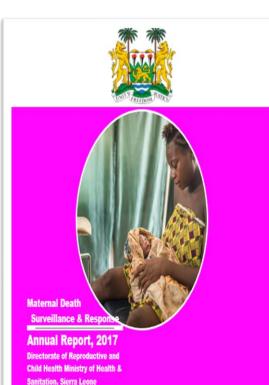




Documentation – Annual MDSR Report



ANNUAL REPORT 2016 Directorate of Reproductive & Child Health





Ministry of Health & Sanitation

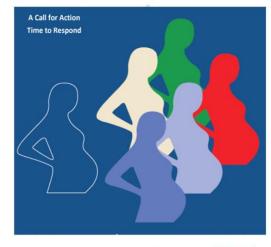


Maternal Death Surveillance & Response

Annual Report, 2018 Directorate of Reproductive and Child Health Ministry of Health & Sanitation, Sierra Leone

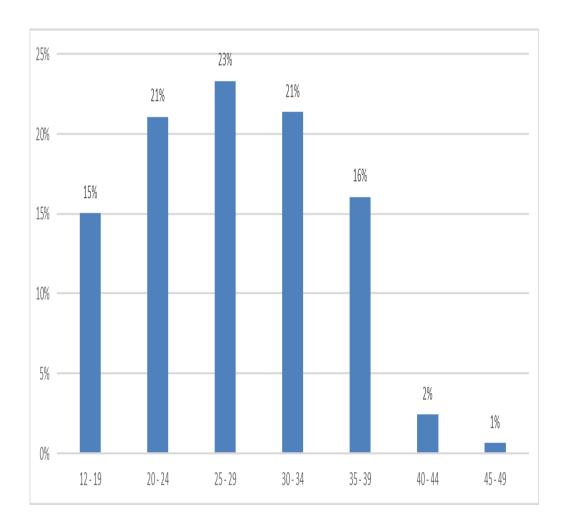


Maternal Death Surveillance and Response Annual Report

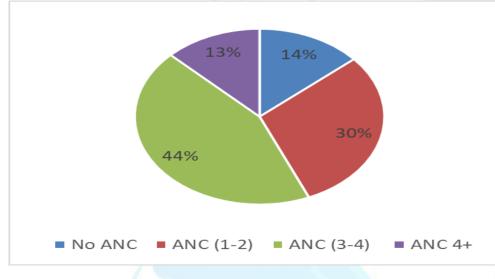


Ministry of Health & Sanitation Directorate of Reproductive and Child Health 2019 Sierra Leone

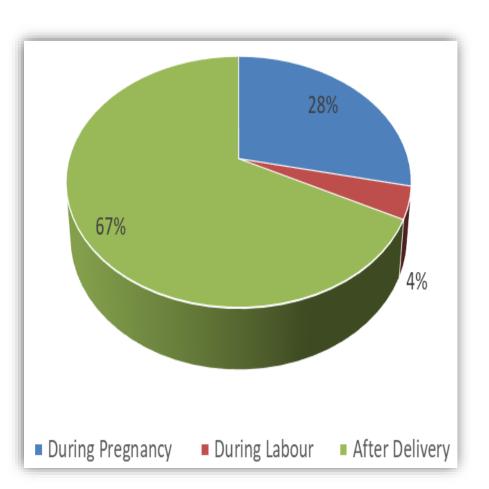
Maternal Death by Age, Gravidity, ANC, 2016-2020



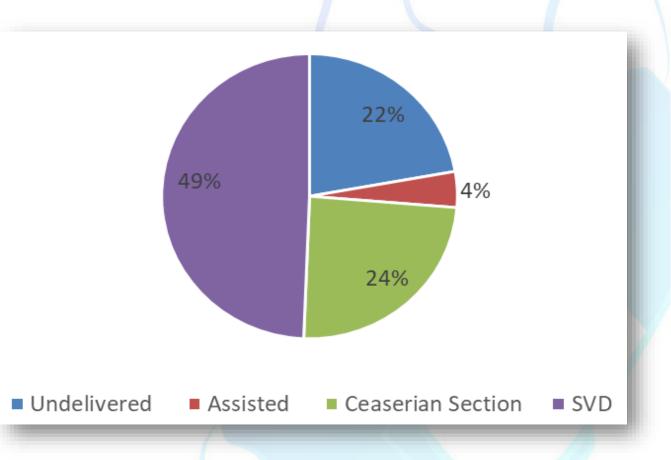




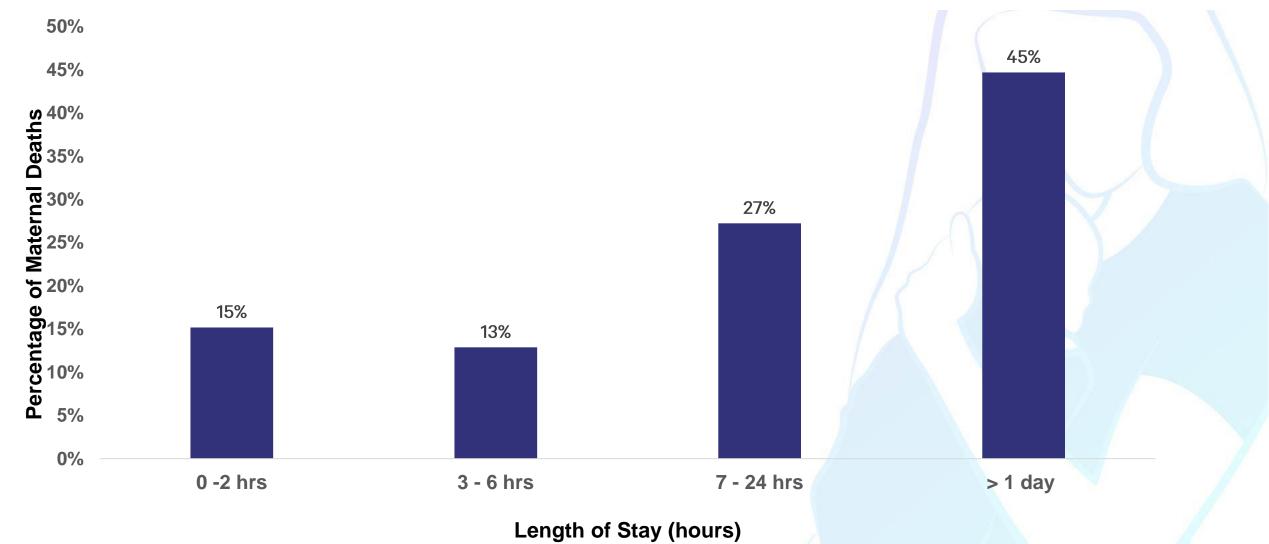
Maternal Death by Stage of Pregnancy and Mode of Delivery, 2016 – 2020



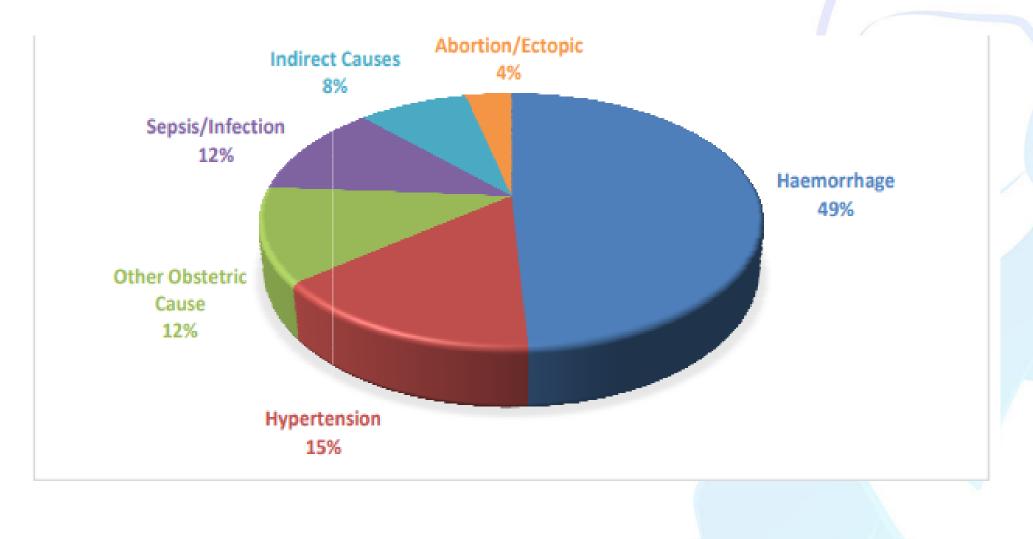
Two-thirds of maternal deaths occurred after delivery

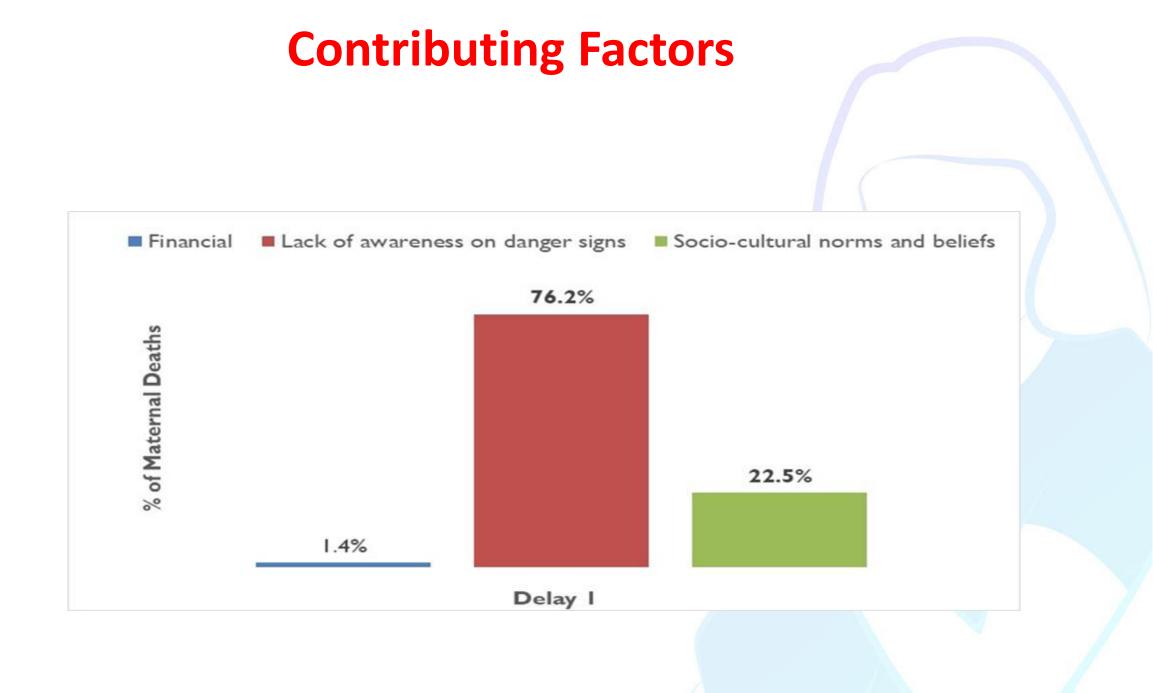


Average Length of Stay in Hospital Before Pronounced Dead, 2016 – 2020

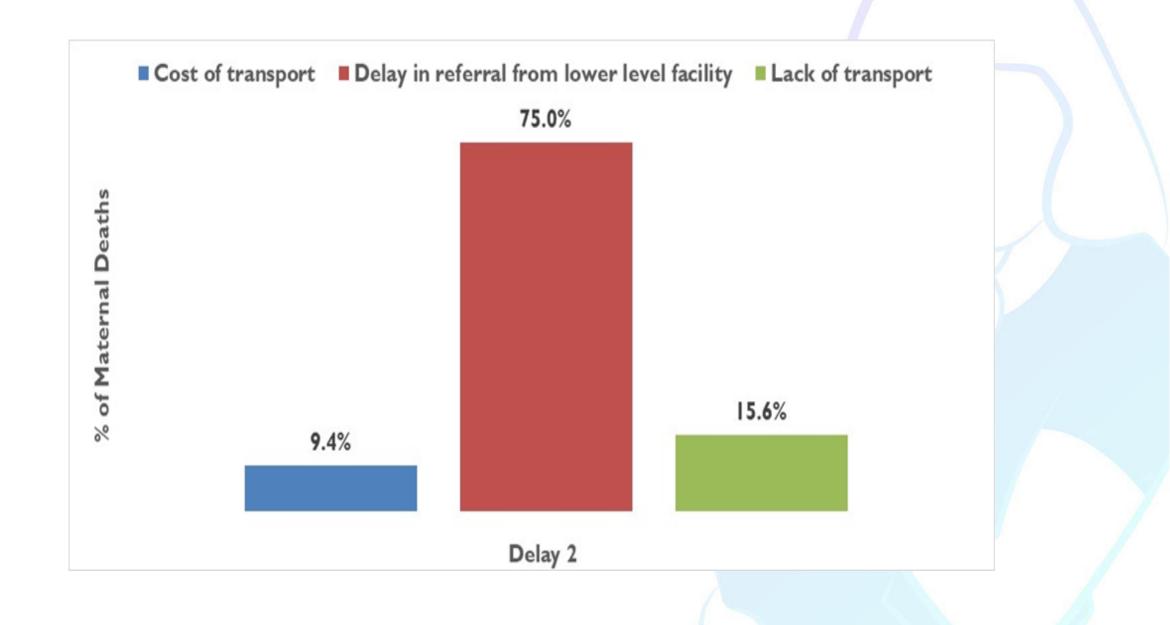


Maternal Death by Cause of Death, 2016 – 2020

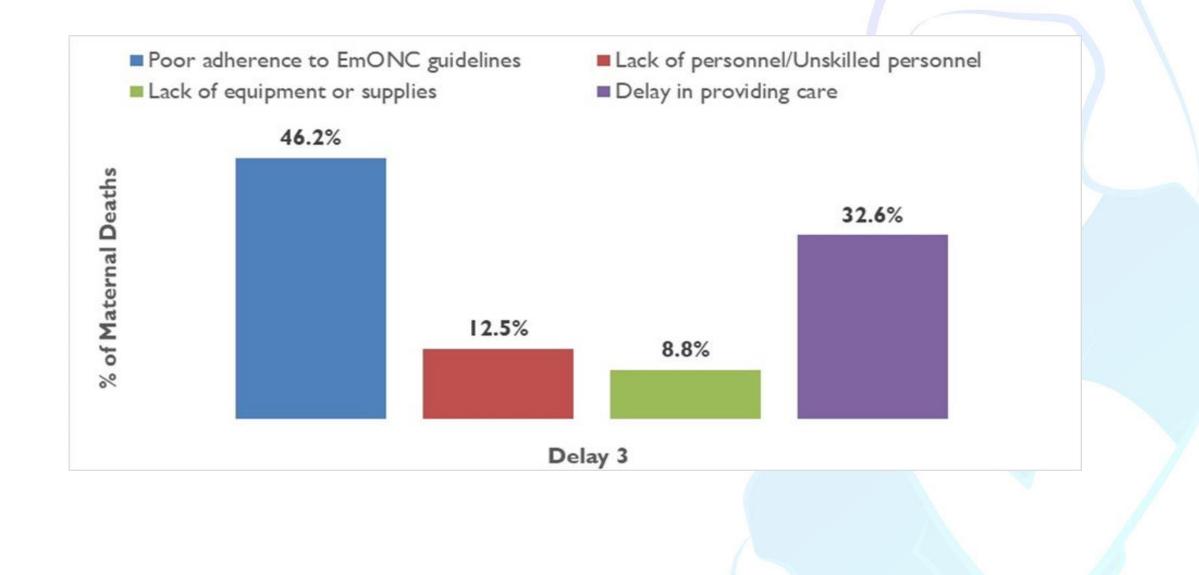




Contributing Factors



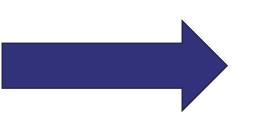
Contributing Factors







We know now women's stories



What are we doing?

Response and Best Practices

Health Systems Strengthening

Building Human Resource Capacity

- ✓ Midwifery education
- ✓ Postgraduate training of specialists
- ✓ In-service training
- ✓ Supportive supervision and mentorship

Strengthening referral systems

- ✓ National Ambulance service
- ✓ Strengthening community referral mechanisms

Strengthening response to SGBV

- New laws against rape and child marriage
- Community engagement and CSE in schools

Legal and policy environment for SRHR

Safe motherhood and reproductive health bill in progress

Quality of Care – Improvement Science at Point of Care Change packages in hospitals for addressing the causes of

- Maternal Deaths (Sepsis, hemorrhage, PIH)
- Perinatal Deaths (Stillbirth, asphyxia, sepsis)

Improving women's experience of care Piloting in learning facilities for nationwide scale up

Challenges

- Blame culture/punitive measures
- Data discrepancy between various sources
- Quality of Investigation and Reviews
- Issues around documentation
- Legal and policy environment
- Inadequate capacity of community based surveillance

Next Steps

- Create friendly policy and legal environment for MPDSR
- Strengthen Quality Improvement Approaches for MPDSR
- Strengthen capacity of MPDSR investigation teams and review committees
- Strengthen community based surveillance system
- Create an enabling environment for service delivery
- Strengthen leadership and coordination for MPDSR/Quality of Care

Panel Discussion and Q&A





Matron Margaret Mannah, Programme Manager, National Quality Management Programme Ministry of Health and Sanitation, Sierra Leone

Vorld Health Organization Dr James Squire, Programme Manager, National Disease Surveillance Programme Ministry of Health and Sanitation, Sierra Leone





What's next?

- We are working with our regions, countries, the MPDSR TWG and partners for an implementation support plan at country level
- <u>WHO website</u> for other materials
- Recording & slides are available at: <u>https://www.qualityofcarenetwork.org/webinars/series-7-webinar-7-maternal-and-perinatal-death-surveillance-and-response-materials</u>
- Please visit **Quality of Care Network website**.
- If you are interested to implement this in your country and context, please reach out to:

Ms Francesca Palestra, Technical Officer, MCA WHO Geneva Email: <u>palestraf@who.int</u>







Quality, Equity, Dignity A Network for Improving Quality of Care for Maternal, Newborn and Child Health

Addressing inequalities through the MPDSR system: Lessons learned from Sierra Leone

Tuesday, 8 March 2022 1pm Freetown, 2pm Geneva, 6:30pm New Delhi