

MONITORING & EVALUATION TOOLS FOR THE USE OF MAGNESIUM SULPHATE IN ECLAMPSIA

FOR HEALTH MANAGERS

Saving Mother's Life: Addressing Barriers to the Use of Magnesium Sulphate



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Dr. Amanullah Khan

President, White Ribbon Alliance-Pakistan

CONTENTS

INTRODUCTION	05
MONITORING & EVALUATIONS INDICATORS	07
ANNEXURES	10
Annexure-I – Obstetric Register DHIS –15 R	11
Annexure-II – DHIS Monthly Report Form PHC – 21 (MR)	12
Annexure III Secondary Hospital Monthly Reports)- (DHIS-22-(MR)	17
Annexure-IV – List of Pregnant Women-LHW Diary	22
Annexure-V – Monthly LHW Report Form	23
Annexure-VI – Treatment Register LHW	24
Annexure-VII – Referral & Feedback Slip for Lady Health Worker	25
LIST OF ABBREVIATIONS	26
BIBLIOGRAPHY	27

INTRODUCTION

In Pakistan, the complications of pregnancy and childbirth are the leading cause of death amongst women of reproductive age. The maternal mortality ratio (MMR) is 276 deaths per 100,000 live births in Pakistan versus 16 per 100,000 in developed countries. Eclampsia (fits with high blood pressure in pregnancy) is among the five leading causes of maternal deaths worldwide. The risk of dying from eclampsia is approximately 14 times higher in a developing country compared to a developed countryⁱ. Eclampsia and severe pre-eclampsia are the third most common causes of maternal mortality in Pakistanⁱⁱ. Evidence from the chochrane review and collaborative eclampsia trial, strongly recommends magnesium sulphate as the first line treatment to prevent fits in these life threatening conditionsⁱⁱⁱ. Magnesium sulphate is recommended by the World Health Organization (WHO) as the most effective, safe, and low-cost treatment available for severe pre-eclampsia and eclampsia and has been on the WHO's essential medicines list since 1996. A significant portion of the maternal deaths from eclampsia reported from many developing countries are among women who had multiple seizures while reaching the tertiary care hospital^{iv}. After a randomized placebo controlled trial (Magpie trial) in 33 countries on over 10,000 eligible women, magnesium sulphate is now considered as standard of care to prevent convulsions in severe pre-eclampsia and eclampsia^v.

Despite compelling evidence, magnesium sulphate use in Pakistan is negligible. The barriers include lack of demand, interrupted availability, training gaps, cumbersome dosage calculation and policy obstacles^{vi}. In addition to these barriers, one of the most important factors is the lack of proper monitoring and evaluation system. The provincial departments of health have two important information systems in place (DHIS and LHW MIS) to assess MNCH services. However, indicators related to the use of magnesium sulphate in eclampsia are rarely available in both systems. In order to assess the progress and to identify gaps regarding the use of magnesium sulphate in eclampsia, it would be of the great importance for health managers to retrieve data and use it for decision making in order to enhance the use of magnesium sulphate so that MMR due to eclampsia could be reduced.

Methodology:

a- Literature Review

Global evidence for effective use of magnesium sulphate and its impact on reducing maternal mortalities was searched through extensive literature review in order to get an insight of the success stories regarding use of Magnesium Sulphate in countries having contexts similar to Pakistan.

b- Review of Existing MIS Systems

Existing DHIS and LHW MIS systems were reviewed to identify gaps and opportunities

for promoting use of magnesium sulphate. Minimum Service Delivery Services (MSDS) documents for Punjab, Khyber Pakhtunkhwa and Sindh governments were reviewed to look into gaps regarding the use of Magnesium Sulphate. While reviewing all these documents, special emphasis has been kept on post devolution scenario i.e. delegation of health care services responsibilities to the provinces after recent 18th amendment in constitution of Pakistan.

c- Consultative Process

A series of consultative meetings was held by the WRA-P to share the draft document including a proposed set of monitoring indicators developed by the consultants. The meetings were attended by the representatives of the Provincial Departments of Health (DoHs), Research and Advocacy Fund, well-renowned Gynaecologists, WRA-P consultants and project staff. The proposed monitoring indicators were discussed in detail, further refined with consensus and endorsed by the DoHs.

MONITORING & EVALUATION INDICATORS

A-COMMUNITY LEVEL

No	INDICATOR	DISTRICT HEALTH INFORMATION SYSTEM (DHIS)		LHW-MIS	
		Recording Tool	Reporting Tool	Recording Tool	Reporting Tool
1	No. of registered pregnant mothers during the month	N/A	N/A	Exist in List of Pregnant Women. (LHW Diary) <u>Annex. IV</u>	Exist in Section IV. (LHW Monthly Report). <u>Annex. V</u>
2	No. of Pre-eclampsia/ Eclampsia cases diagnosed out of total registered pregnancies	N/A	N/A	Proposed to be recorded in List of Pregnant Women in Remarks column (LHW Diary) <u>Annex. IV</u>	Proposed in Section IV. (LHW Monthly Report). <u>Annex. V</u>
3	Availability of MgSO ₄ in the Health House of LHW/CMW.	N/A	N/A	Proposed to be recorded in LHW Kit.	Proposed in Section VIII. (LHW Monthly Report). <u>Annex. V</u>
4	Availability of functional BP apparatus in the Health House of LHW/CMW	N/A	N/A	Proposed to be recorded in LHW Kit.	No need of reporting
5	Availability of dipsticks in the Health House	N/A	N/A	Proposed to be recorded in LHW Kit.	No need of reporting
6	No. of Pre-eclampsia/Eclampsia cases referred after giving MgSO ₄	N/A	N/A	Proposed a new column in Treatment Register. <u>Annex. VI</u> Referred on entering in Referral Slip. <u>Annex. VII</u>	Proposed in Section IV. (LHW Monthly Report). <u>Annex. V</u>

B-PRIMARY HEALTH CARE LEVEL (BHU, RHC & Dispensaries etc.)

No	INDICATOR	DISTRICT HEALTH INFORMATION SYSTEM (DHIS)		LHW-MIS	
		Recording Tool	Reporting Tool	Recording Tool	Reporting Tool
1	No. of Pre-eclampsia/ Eclampsia cases diagnosed out of total registered pregnancies	Exist in Obstetric Register (Diagnosis- Sr. No.11 of DHIS-15-(R)) Annex. I	Proposed in DHIS Monthly report form in Section IV, in row 44 (PHC Monthly Reports)- (DHIS-21-(MR)) Annex. II	N/A	N/A
2	Availability of MgSO ₄ .	Proposed to be recorded in the Stock Register (Medicine) of Health Facility	Proposed in DHIS Monthly report form in Section XII-A, at Sr.No. 19 (PHC Monthly Reports)- (DHIS-21-(MR)) Annex. II	N/A	N/A
3	Availability of functional BP apparatus.	It is mandatory for Health Facilities of PHC	No need of reporting	N/A	N/A
4	Availability of dipsticks	Proposed to be recorded in the Stock Register (Medicine) of Health Facility	No need of reporting	N/A	N/A
5	Percentage of Antenatal care (ANC) coverage	DHIS Software generate this indicator of any given period or facility.		N/A	N/A

C-SECONDARY/TERTIARY HEALTH CARE LEVEL.

No	INDICATOR	DISTRICT HEALTH INFORMATION SYSTEM (DHIS)		LHW-MIS	
		Recording Tool	Reporting Tool	Recording Tool	Reporting Tool
1	No. of Pre-eclampsia/ Eclampsia cases diagnosed out of total registered pregnancies	Exist in Obstetric Register (Diagnosis-Sr. No.11 of DHIS-15-(R)) Annex. I	Exist in DHIS Monthly report form in Section XIII-B, column 44 Secondary Hospital Monthly Reports) - (DHIS-22-(MR) Annex.III	N/A	N/A
2	Availability of MgSO ₄ .	Proposed to be recorded in the Stock Register (Medicine) of Health Facility	Proposed in DHIS Monthly report form in Section XII-A, Sr.No. 19 Secondary Hospital Monthly Reports) - (DHIS-22-(MR) Annex.III	N/A	N/A
3	Availability of functional BP apparatus.	It is mandatory for Health Facilities of PHC	No need of reporting	N/A	N/A

ANNEXURES

LHW TOOLS & INSTRUMENTS

Annexure - I - Obstetric Register DHIS – 15 R

OBSTETRIC REGISTER <i>(To be maintained at Obstetric Ward/Female Ward/Labor Room)</i>																			
Monthly Obs. Serial Number	Time of Admission	Name with Husband's Name	Address	Age (in Years)	Parity	Diagnosis <i>(Complication or illness if any, tick appropriate column)</i>										Management <i>(Tick appropriate column)</i>			
						Ante partum Haemorrhage (APH)	Complications of Abortion	Ectopic Pregnancies	Postpartum Haemorrhage (PPH)	Pre-Eclampsia/Eclampsia	Prolonged/Obstructed Labours	Puerperal Sepsis	Rupture Uterus	Intrauterine Death	Others	Nature of Delivery			Other procedure done
																Normal	Vacuum / Forceps	Caesarean	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<<Total brought from Previous Pages>>																			

Delivery		Outcome: Baby										Outcome Mother					Delivery Conducted by <i>(Name / Signature)</i>	Remarks	
Date /Time	Place of Delivery <i>(Health Facility/ Home)</i>	Live Birth			Still Birth	Neonatal Death <i>(Tick appropriate column)</i>						Complications after delivery <i>(None/ Specify)</i>	<i>(Tick appropriate column)</i>						
		Sex <i>(Tick)</i>		Weight in Kg <i>(Circle if less than 2.5 Kg)</i>		Birth Trauma	Birth Asphyxia	Bacterial sepsis	Congenital Abnormality	Prematurity	Hypothermia		Discharged/DO R	LAMA	Referred	Maternal Deaths			Date and time of Death/ discharge/ DOR/LAMA/
		M	F																
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																			<i>(Transfer total to Next Page)</i>

Annexure - II - DHIS Monthly Report Form PHC – 21 (MR)

Month:, _____ Year: 20_____
Total Working Days:_____

DHIS – 21 (MR)

Date of Submission

PHC Facility Monthly Report
District

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Section I: Identification

1.	Facility ID							4.	Signature of Facility In-charge:
2.	Facility Name								
3.	Tehsil							5.	Designation:

Section II: Monthly Performance (Number or % as appropriate)		Monthly Target	Performance
1.	Daily OPD attendance		
2.	Full immunization coverage		
3.	Antenatal Care (ANC -1) coverage		
4.	Monthly report data accuracy		
5.	Delivery coverage at facility		
6.	TB-DOTS patients missing more than one week		
7.	Total Visits for FP		
8.	LHW pregnancy registration coverage		

Section III: Outpatients Attendance (From OPD Register)				<1yrs	1-4yrs	5 - 14	15 - 49	50 +	Total
1.	Male (New Cases)								
2.	Female (New Cases)								
Grand Total									
3.	Follow-up cases.			4.	Referred cases attended				
5.	Total Homoeo cases		6.	Total Tibb/Unani cases		7.	No. of cases of Malnutrition < 5 yrs children		

Section IV: Cases attending OPD (From OPD Abstract Form)		
Respiratory Diseases		
1	Acute (upper) respiratory infections	
2	Pneumonia < 5 yrs.	

3	Pneumonia > 5 yrs.	
4	TB Suspects	
5	Chronic Obstructive Pulmonary Diseases	
6	Asthma	

Gastro Intestinal Diseases		
7	Diarrhoea / Dysentery < 5 yrs	
8	Diarrhoea / Dysentery > 5 yrs	
9	Enteric /Typhoid Fever	
10	Worm Infestations	
11	Peptic Ulcer Diseases	
12	Cirrhosis of Liver	
Urinary Tract Diseases		
13	Urinary Tract Infections	
14	Nephritis/ Nephrosis	
15	Sexually Transmitted Infections	
16	Benign Enlargement of Prostrate	
Other Communicable Diseases		
17	Suspected Malaria	
18	Suspected Meningitis	
19	Fever due to other causes	
Vaccine Preventable Diseases		
20	Suspected Measles	
21	Suspected Viral Hepatitis	
22	Suspected Neo Natal Tetanus	
Cardiovascular Diseases		
23	Ischemic heart disease	
24	Hypertension	
Skin Diseases		
25	Scabies	
26	Dermatitis	
27	Cutaneous Leishmaniasis	

Endocrine Diseases		
28	Diabetes Mellitus	
Neuro-Psychiatric Diseases		
29	Depression	
30	Drug Dependence	
31	Epilepsy	
Eye & ENT		
32	Cataract	
33	Trachoma	
34	Glaucoma	
35	Otitis Media	
Oral Diseases		
36	Dental Caries	
Injuries /Poisoning		
37	Road traffic accidents	
38	Fractures	
39	Burns	
40	Dog bite	
41	Snake bite (with signs/ symptoms of poisoning)	
Miscellaneous Diseases		
42	Acute Flaccid Paralysis	
43	Suspected HIV/AIDS	
Any Other Unusual Diseases (Specify)		
44	Pre-eclampsia/ Eclampsia	
45		

Section V- Immunization (From EPI Register)			
1.	Children <12 months received 3 rd Pentavalent vacc.	3.	Children <12 months fully immunized
2.	Children <12 months rcvd. 1 st Measles vaccine	4.	Pregnant women received TT -2 vaccine

Section VI: TB-DOTS (From TB Card TB-01)			
1.	Intensive phase TB-DOTS patients	2.	Intensive phase TB-DOTS patients missing treatment >1 week

Section VII: Family Planning Services/Commodities provided (From FP Register)					
1.	Total FP visits	4.	DMPA Inj.	7.	IUCD
2.	COC cycles	5.	Net-En Inj.	8.	Tubal Ligation
3.	POP cycles	6.	Condom Pieces	9.	Vasectomy
				10.	Implants

Section VIII: Maternal and Newborn Health <i>(From Maternal Health & Obstetric Registers)</i>			
1.	1st Antenatal Care visits (ANC-1) in the facility		6. Vacuum / Forceps deliveries in facility
2.	ANC-1 women with Hb. <10 g/dl		7. Live births in the facility
3.	Antenatal Care revisit in the facility		8. Live births with LBW(< 2.5kg)
4.	1st Postnatal Care visit (PNC-1) in the facility		9. Stillbirths in the facility
5.	Normal vaginal deliveries in facility		10. Neonatal deaths in the facility

Section IX: Community Based Data			
<i>(From LHW Report)</i>			
		4.	Infant deaths reported
1.	Pregnant women newly registered by LHW	5.	No. of modern FP method users
2.	Delivery by skilled persons reported	6.	<5 year diarrhea cases reported
3.	Maternal deaths reported	7.	< 5 year ARI cases reported

Section X: Community Meetings					
<i>(From Community Meeting Register)</i>					
		2.	No. of Participant	Male	
1.	No. of community meetings			Female	

Section XI: Diagnostic Services <i>(From Laboratory Register / TB Lab Register/ Radiology Register)</i>							<i>(For RHC ONLY)</i>	
	Services Provided	OPD	Indoor		Services Provided	OPD	Indoor	
1.	Total Lab Investigations			3.	Total Ultra Sonographies			
2.	Total X-Rays			4.	Total ECGs			
Laboratory Investigation for Communicable Diseases								
Malaria T.B			TB			Viral Hepatitis		
1.	Slides examined		1.	Slides for AFB Diagnosis		1.	Patients screened	
2.	Slides MP +ve		2.	Diagnosis slides with AFB +ve		2.	Hepatitis B +ve	
3.	Slides P. falciparum +ve		3.	Follow-up slides for AFB		3.	Hepatitis C +ve	
			4.	Follow-up slides with AFB +ve				

Section XII-A: Stock out Report: Stock out of tracer drugs for any number of days this month
 (From Stock Register for Medicine/ Supplies) **Tick where applicable**

1.	Cap. Amoxicillin		7.	Inj. Ampicillin		13.	Syp. Anthelmintic	
2.	Syp. Amoxicillin		8.	Tab. Diclofenac		14.	I/V infusions	
3.	Tab. Cotrimoxazole		9.	Syp. Paracetamol		15.	Inj. Dexamethasone	
4.	Syp. Cotrimoxazole		10.	Inj. Diclofenac		16.	Tab. Iron/ Folic Acid	
5.	Tab. Metronidazole		11.	Tab. Chloroquin		17.	ORS	
6.	Syp. Metronidazole		12.	Syp. Salbutamol		18.	Oral pills (COC)	
						19.	Injection MgSO ₄	

Section XII-B: Stock out Report: Vaccines (Tick where applicable)

1.	BCG vaccine		4.	Hepatitis-B vaccine		7.	Anti Rabies Vaccine	
2.	Pentavalent vaccine		5.	Measles vaccine		8.	Anti Snake Venom	
3.	Polio vaccine		6.	Tetanus Toxioid		9.	Vaccine Syringes	

Section XIII-A: Indoor Services (From Daily Bed Statement Register) (For RHC ONLY)

		Allocated Beds	Admissions	Discharged/ DOR (not on the same day of admission)	Discharged/ DOR on same day of admission	LAMA	Referred	Deaths	Total of Daily Patient Count	Bed Occupancy	Average Length of Stay (ALS)
1.	Male									%	
2.	Female									%	

Section XIII-B: Cases Attending Indoor
 (From Indoor Register / Obstetric Register)
 (For RHC ONLY)

		Total Number of Admissions	Total Number of Deaths
1.	Diarrhea/Dysentery in < 5 yrs.		
2.	Pneumonia in <5 yrs.		
3.	Malaria		
4.	Pulmonary Tuberculosis		
5.	Obstetric / Maternal Complication		
6.	Other causes		
	Total		

Section XIV: Surgeries (From OT Register) (For RHC ONLY)

1.	Operations under GA		3.	Operations under LA	
2.	Operations under Spinal Anesthesia		4.	Operations under other type of Anesthesia	

Section XV: Human Resource Data <i>(From Facility Records)</i>						
Post Name/Category		Sanctioned	Vacant	Contract	On General duty in Facility	On General duty out of Facility
1	Senior Medical Officer					
2	Medical Officer					
3	Women/ Lady Medical Officer					
4	Dental Surgeon					
5	Head Nurse					
6	Staff Nurse/Charge Nurse					
7	Medical Assistant					
8	Sanitary Inspector					
9	Lab Assistants					
10	Dental Assistant					
11	X-Ray Assistant					
12	Lady Health Visitor					
13	Health Technician / Medical Technician					
14	Dispenser					
15	EPI Vaccinator					
16	CDC Supervisor					
17	Midwife					
18	LHW					
19	Others					

Section XVI-A: Revenue Generated <i>(From Receipt Register)</i>				Total Receipt	Deposited
	Total Receipt	Deposited		Rs.	
5.	X-Ray			Rs.	
1. OPD	Rs.		6. Ultrasound	Rs.	
2. Indoor	Rs.		7. Dental Procedures	Rs.	
3. Laboratory	Rs.		8. Ambulance	Rs.	
4. ECG	Rs.		9. Others	Rs.	

Section XVI-B: Financial Report -for the Current Fiscal Year <i>(From Budget and Expenditure Statement)</i>					
<i>(For RHC ONLY)</i>					
	Total Allocation for the fiscal year	Total Budget Released to date	Total Expenditure to date	Balance to date	
1. Salary & Allowances (Establishment charges)	Rs.	Rs.	Rs.	Rs.	
2. Non-Salary (Operating Expenses)	Rs.	Rs.	Rs.	Rs.	
3. Utilities	Rs.	Rs.	Rs.	Rs.	
4. Medicine	Rs.	Rs.	Rs.	Rs.	
5. General Stores	Rs.	Rs.	Rs.	Rs.	
6. M&R Equip/Transport/Furniture	Rs.	Rs.	Rs.	Rs.	
7. M&R Building Dept	Rs.	Rs.	Rs.	Rs.	
8. Others	Rs.	Rs.	Rs.	Rs.	
9. Annual Development Plan	Rs.	Rs.	Rs.	Rs.	

Section XVII – Achievements/ Issues

Annexure - III - Secondary Hospital Monthly Reports - (DHIS-22-(MR))

Month:, _____ Year: 20 _____
 Total Working Days: _____

DHIS – 21 (MR)

Date of Submission

Secondary Hospital Monthly Reports
Tehsil _____ District _____

Section I: Identification			
1.	Facility ID	3.	Signature of Facility In-charge:
2.	Facility Name	4.	Designation:

Section II: Monthly Performance (Number or % as appropriate)		Monthly Target	Performance	Monthly Target	Performance
1.	Daily OPD attendance			8.	C-Section performed
2.	Fully immunization coverage			9.	Lab services utilization
3.	Antenatal Care (ANC-1) coverage			10.	Bed occupancy rate
4.	Delivery coverage at facility			11.	LAMA
5.	TB-DOTS patients missing more than 1 wk			12.	Hospital death rate
6.	Total Visits for FP			13.	Monthly report data accuracy
7.	Obstetric complications attended				

Section III: Outpatients Attendance (From OPD Register)															
Specialty	New cases										Total	Follow-up	No. of cases of Malnutrition (<5)	Referred Attended	
	MALE					FEMALE									
	<4 year	1-4	5-14	15-49	50+	<4 year	1-4	5-14	15-49	50+					
1.	General OPD														
2.	Medicine														
3.	Surgery														
4.	Pediatrics														
5.	Eye														
6.	ENT														
7.	Orthopedics														
8.	Psychiatry														
9.	Dental														
10.	Skin														
11.	OB/GYN														
12.	Emergency/ Casualty														
13.	Honoco Cases														
14.	Tibb/Unani Shifa Khana OPD cases														
15.	Cardiology														
16.	Others														
Grand Total															

Section IV: Cases attending OPD (From OPD Abstract Form)	
Respiratory Diseases	
1	Acute (upper) respiratory infections
2	Pneumonia < 5 yrs.
3	Pneumonia > 5 yrs.
4	TB suspects
5	Chronic Obstructive Pulmonary Diseases
6	Asthma
Gastro Intestinal Diseases	
7	Diarrhoea / Dysentery < 5 yrs
8	Diarrhoea / Dysentery > 5 yrs
9	Enteric / Typhoid Fever
10	Worm Infestations
11	Peptic Ulcer Diseases
12	Cirrhosis of Liver
Urinary Tract Diseases	
13	Urinary Tract Infections
14	Nephritis/ Nephrosis
15	Sexually Transmitted Infections
16	Benign Enlargement of Prostate

31	Epilepsy
Eye & ENT	
32	Cataract
33	Trachoma
34	Glaucoma
35	Otitis Media
Oral Diseases	
36	Dental Caries
Injuries / Poisoning	
37	Road Traffic Accidents

Other Communicable Diseases	
17	Suspected Malaria
18	Suspected Meningitis
19	Fever due to other causes
Vaccine Preventable Diseases	
20	Suspected Measles
21	Suspected Viral Hepatitis
22	Suspected Neonatal Tetanus
Cardiovascular Diseases	
23	Ischemic Heart Disease
24	Hypertension
Skin Diseases	
25	Scabies
26	Dermatitis
27	Cutaneous Leishmaniasis
Endocrine Diseases	
28	Diabetes Mellitus
Neuro-Psychiatric Diseases	
29	Depression
30	Drug Dependence

38	Fractures
39	Burns
40	Dog bite
41	Snake bite (with signs/ symptoms of poisoning)
Diseases (Surveillance Importance)	
42	Acute Flaccid Paralysis
43	Suspected HIV/ AIDS
Any Other Unusual Diseases (Specify)	
44.	
45.	

Section V- Immunization (From EPI Register)			
1.	Children <12 months received 3 rd Pentavalent vacce	3.	Children <12 months fully immunized
2.	Children <12 months recvd. 1 st Measles vaccine	4.	Pregnant women received TT -2 vaccine

Section VI: TB-DOTS (From TB Card TB-01)			
1.	Intensive-phase TB-DOTS patients	2.	Intensive phase TB-DOTS patients missing treatment >1 week

Section VII: Family Planning Services/Commodities provided (From FP Register)			
1.	Total FP visits	4.	DMPA Inj.
2.	COC cycles	5.	Nct-En Inj.
3.	POP cycles	6.	Condom Pieces
7.	IUD	8.	Tubal Ligation
		9.	Vasectomy
		10.	Implants

Section VIII: Maternal and Newborn Health (From Maternal Health & Obstetric Registers)			
1.	1 st Antenatal Care visits (ANC-1)	9.	Live births with LBW < 2.5kg
2.	ANC-1 women with Hb. <10 g/dl	10.	Stillbirths in the facility
3.	Antenatal Care revisit, in the facility	Neonatal deaths in the facility	
4.	1 st Postnatal Care visit(PNC-1) in the facility	11.	Birth Trauma
Deliveries in the facility		12.	Birth Asphyxia
5.	Normal vaginal deliveries	13.	Bacterial sepsis
6.	Vacuum / Forceps deliveries	14.	Congenital Abnormalities
7.	Cesarean Sections	15.	Prematurity
8.	Live births in the facility	16.	Hypothermia

Section IX: Community Based Data (From LHW Report)			
1.	Pregnant women newly registered by LHW	4.	Infant deaths reported
2.	Delivery by skilled persons reported	5.	No. of modern FP method users
3.	Maternal deaths reported	6.	<5 year diarrhea cases reported
		7.	<5 year ARI cases reported

Section X: Community Meetings (From Community Meeting Register)			
1.	No. of community meetings	2.	No. of Participant
			Male
			Female

Section XI: Diagnostic Services (From Laboratory Register / TB Lab Register/ Radiology Register)							
	Services Provided	OPD	Indoor		Services Provided	OPD	Indoor
1.	Total Lab Investigations			4.	Total CT Scan		
2.	Total X-Rays			5.	Total ECG		
3.	Total Ultrasonographies						
Laboratory Investigation for Communicable Diseases							
Malaria		T.B			Viral Hepatitis & HIV		
1.	Slides examined		1.	Slides for AFB Diagnosis		1.	Patients screened
2.	Slides MP -ve		2.	Diagnosis slides with AFB +ve		2.	Hepatitis B +ve
3.	Slides P. falciparum -ve		3.	Follow-up slides for AFB		3.	Hepatitis C +ve
			4.	Follow-up slides with AFB +ve		4.	HIV +ve

Section XII-A: Stock out Report: Stock out of tracer drugs for any number of days this month (From Stock Register for Medicine Supplies) Tick where applicable							
1.	Cap. Amoxicillin	7.	Inj. Ampicillin	13.	Syp. Anthelmintic		
2.	Syp. Amoxicillin	8.	Tab. Diclofenac	14.	IV infusions		
3.	Tab. Cotrimoxazole	9.	Syp. Paracetamol	15.	Inj. Dexamethasone		
4.	Syp. Cotrimoxazole	10.	Inj. Diclofenac	16.	Tab. Iron/ Folic Acid		
5.	Tab. Metronidazole	11.	Tab. Chloroquine	17.	ORS		
6.	Syp. Metronidazole	12.	Syp. Salbutamol	18.	Oral pills (COC)		
				19.	Injection MgSO ₄		

Section XII-B: Stock out Report: Vaccines (Tick where applicable)							
1.	BCG vaccine	4.	Hepatitis-B vaccine	7.	Anti Rabies Vaccine		
2.	Pentavalent vaccine	5.	Measles vaccine	8.	Anti Snake Venom		
3.	Polio vaccine	6.	Tetanus Toxoid	9.	Vaccine Syringes		

Section XIII-A: Indoor Services (From Daily Bed Statement Register)											
	Specialty	Allocated Beds	Admissions	Discharged/ DOR (not on the same day of admission)	Discharged/ DOR on same day of admission	IAMA	Referred	Deaths	Total of Daily Patient Count	Bed Occupancy	Average Length of Stay (ALS)
1.	Medicine									%	
2.	Surgery									%	
3.	Pediatrics									%	
4.	OB/GYN									%	
5.	Eye									%	
6.	ENT									%	
7.	Orthopedics									%	
8.	Cardiology									%	
9.	Neuro Surgery									%	
10.	Psychiatry									%	
11.	TB/ Chest									%	

12	Skin							%
13	Others							%
Grand Total								%

Section XIII-B: Cases attending Indoors (From Abstract Forms for Indoor)		Total Admissions	Total Deaths
Medical			
1.	Diarrhoea/Dysentery < 5		
2.	Diarrhoea/Dysentery > 5		
3.	Pneumonia < 5		
4.	Pneumonia > 5		
5.	Malaria		
6.	Asthma		
7.	Chronic Obstructive Airways		
8.	Pulmonary Tuberculosis		
9.	Extra Pulmonary Tuberculosis		
10.	Enteric / Typhoid Fever		
11.	Diabetes Mellitus		
12.	Viral Hepatitis A & E		
13.	Viral Hepatitis B		
14.	Viral Hepatitis C		
15.	Meningitis		
16.	Chronic Liver Diseases		
17.	Chronic Renal Diseases		
Cardiac Diseases			
18.	Congestive Cardiac Failure (CCF)		
19.	Hypertension		
20.	Ischemic Heart Diseases (IHD)		
Vaccine Preventable Diseases			
21.	Neonatal Tetanus		
22.	Acute Flaccid Paralysis (AFP)		
Surgical			
23.	Acute Appendicitis		
24.	Burns		
25.	Cholelithiasis / Cholecystitis		
26.	Hernias		
27.	Hyperplasia of Prostate		
28.	Urolithiasis		

Section XIII-B: Cases attending Indoors (From Abstract Forms for Indoor)		Total Admissions	Total Deaths
Orthopedic Diseases			
29.	Arthropathies		
30.	Fractures		
Eye			
31.	Cataract		
32.	Cornical Opacity		
33.	Glaucoma		
ENT			
34.	Chronic Otitis Media		
35.	DNS		
Gynecological			
36.	Fibroid Uterus		
37.	Inflam. diseases of female pelvic organs (PID)		
38.	Uterine Prolapse		
39.	Vesico-Vaginal Fistula		
Obstetrics/Maternal Complications			
40.	Ante partum Hemorrhage (APH)		
41.	Complications of Abortion		
42.	Ectopic Pregnancies		
43.	Postpartum Hemorrhage (PPH)		
44.	Pre-Eclampsia/ Eclampsia		
45.	Prolonged/ Obstructed Labour		
46.	Puerperal Sepsis		
47.	Rupture Uterus		
48.	Other Obstetric Complications		
Neurological/Neurosurgical			
49.	CVA/Stroke		
50.	Head Injuries		
Mental Behavioral Disorder			
51.	Drug Abuse (Psych-Active substance use)		
52.	Mental Disorder		
Any other Unusual Diseases (Specify)			
53.			
54.			

Section XIV: Surgeries (From OT Register)	
1.	Operations under GA
2.	Operations under Spinal Anesthesia
3.	Operations under LA
4.	Operations under other type of Anesthesia

Section XV: Human Resource Data (From Facility Records) Sanc.=Sanctioned, V=Vacant, C=Contracted, G-In=Working on General Duty in the facility, G-Out=Working on General Duty out of facility

Post Name/Category		Sanc.	V	C	G-In	G-Out	Post Name/Category		Sanc.	V	C	G-In	G-Out
1	MS/AMS /Deputy MS						18	Dental Surgeon					
2	Medical Specialist						19	Physiotherapists					
3	Surgical Specialist						20	Matron					
4	Cardiologist						21	Head Nurse					
5	Chest Specialist						22	Staff Nurse/Charge Nurse					
6	Neurosurgeon						23	Lab Assistant/Techs.					
7	Orthopedic Surgeon						24	X-Ray Assist./Techs					
8	Child Specialists						25	Dental Assist./Techs					
9	Gynecologists						26	EKG Assist./Techs.					
10	Eye Specialists						27	Lady Health Visitors					
11	ENT Specialists						28	Health/Medical Technicians					
12	Anesthetist						29	Dispensers					
13	Pathologist						30	EPI Vaccinators					
14	Radiologist						31	Sanitary Inspectors					
15	PMO/APMO/CMO/SMO/MO						32	Midwives					
16	PWMO/FPWMO/BWMO/WMO						33	LHWs					
17	Medical Assistant						34	Others					

Section XVI-A: Revenue Generated (From Receipt Register)

		Total Receipt	Deposited			Total Receipt	Deposited
1.	OPD	Rs.		6.	CT Scan	Rs.	
2.	Indoor	Rs.		7.	Ultrasound	Rs.	
3.	Laboratory	Rs.		8.	Dental Procedures	Rs.	
4.	EKG	Rs.		9.	Ambulance	Rs.	
5.	X-Ray	Rs.		10.	Others	Rs.	



Section XVI-B: Financial Report-for the Current Fiscal Year (From Budget and Expenditure Statement)

		Total Allocation for the Fiscal Year	Total Budget Released to-date	Expenditure to-date	Balance to date
1.	Salary & Allowances (Cash/Non-Cash)	Rs.	Rs.	Rs.	Rs.
2.	Non-Salary (Operating Expenses)	Rs.	Rs.	Rs.	Rs.
3.	Utilities	Rs.	Rs.	Rs.	Rs.
4.	Medicine	Rs.	Rs.	Rs.	Rs.
5.	General Stores	Rs.	Rs.	Rs.	Rs.
6.	M&R Equip/Transport/Furniture	Rs.	Rs.	Rs.	Rs.
7.	M&R Building Dept	Rs.	Rs.	Rs.	Rs.
8.	Others	Rs.	Rs.	Rs.	Rs.
9.	Annual Development Plan	Rs.	Rs.	Rs.	Rs.

Section XVII - Achievements / Issues

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Annexure - VII - Referral & Feedback Slip for Lady Health Worker

 <p>نیشنل پروگرام برائے خاندانی منصوبہ بندی و بنیادی صحت</p> <p>ریفرل سلیپ</p>	 <p>نیشنل پروگرام برائے خاندانی منصوبہ بندی و بنیادی صحت</p> <p>ریفرل فیڈ بیک سلیپ</p>
<p>مریض / کلائنٹ کا نام _____ عمر _____ خاندان نمبر _____</p> <p>مریض کے گاؤں / علاقہ کا نام _____</p> <p>ریفر کرنے کی وجہ _____</p> <p>مرکز صحت کا نام _____</p> <p>لیڈی ہیلتھ ورکر کا نام _____</p> <p>دستخط لیڈی ہیلتھ ورکر _____ کوڈ نمبر _____ تاریخ _____</p> <p>یہ حصہ LHW پر کرے گی اور مرکز صحت کے ریکارڈ میں رہے گا۔</p>	<p>مریض / کلائنٹ کا نام _____ عمر _____ خاندان نمبر _____</p> <p>ریفر کرنے والی LHW کا نام _____</p> <p>مرکز صحت آنے کی وجہ _____</p> <p>فراہم کردہ علاج / سہولت _____</p> <p>مزید ہدایات _____</p> <p>دستخط انچارج _____ مرکز صحت _____ تاریخ _____</p> <p>نوٹ یہ حصہ انچارج مرکز صحت بھر کر مریض کو واپس کرے گا تاکہ وہ لیڈی ہیلتھ ورکر کو دے سکے۔</p>

<p>ہدایات برائے مرکز صحت</p> <p>☆ مریض / کلائنٹ کو مطلوبہ علاج / سہولت مہیا کرنے کے بعد اس سلیپ کو بھریں اور اس کے حوالے کریں تاکہ وہ لیڈی ہیلتھ ورکر تک پہنچا سکے۔</p> <p>ہدایات برائے لیڈی ہیلتھ ورکر</p> <p>☆ مرکز صحت کی طرف سے دی گئی ہدایات کے مطابق مریض / کلائنٹ کی راہنمائی کریں اور اس کا فالو اپ کریں۔</p>	<p>ہدایات برائے لیڈی ہیلتھ ورکر</p> <p>☆ مریض / کلائنٹ کو ابتدائی طبی امداد / مشورہ دینا ریفرل سلیپ کا یہ حصہ بھرنے کے بعد مرکز صحت بھیج دیں۔</p> <p>ہدایات برائے مرکز صحت</p> <p>☆ سلیپ کا یہ حصہ مرکز صحت کے ریکارڈ میں محفوظ رکھیں۔</p>
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LIST OF ABBREVIATIONS

ACRONYMS	DESCRIPTION
ANC	Ante Natal Care
BHU	Basic Health Unit
BP	Blood Pressure
CBA	Child Bearing Age
DGHS	Director General Health Services
DHIS	District Health Information System
DHQH	District Headquarter Hospital
DOH	District Officer (Health)
DoH	Department of Health
EDOH	Executive District Officer (Health)
FLCF	First Level Care Facility
LHV	Lady Health Visitor
LHW	Lady Health Worker
MCHC	Maternal & Child Health Centre
MS	Medical Superintendent
PHC	Primary Health Care
PNC	Post Natal Care
RAF	Research and Advocacy Fund
RHC	Rural Health Centre
SHC	Secondary Health Care
SMO	Senior Medical Officer
TCH	Tertiary Care Hospital
THQH	Tehsil/ Taluka Headquarter Hospital

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