

EPI and VPD Review - 2025

MOH Area:.....

Background information

1-MOH area			
2-RDHS area			
3-Estimated Population for the year 2025			
4-Actual Population for the year 2025			
5-Reasons for differences in actual and estimated populations			
6-Crude Birth Rate for District 2025			
7-Crude Birth Rate for Province 2025			
8-Estimated Number of Births in the year 2025		<i>Based on the Actual Population</i>	<i>Based on the Estimated Population</i>
<i>For District BR</i>			
<i>For Provincial BR</i>			
9-Number of Immunizations performed in the year 2025 (institutions and field) (Data source - EPINET)		PVV1	PVV2
10-Number of pregnant mothers registered for the area in 2024			
11-Number of live births reported for the area in 2025			
12- Number of infants registered for the area in 2025			
13-The most probable number of births for the MOH area			

A. Number of pregnant mothers registered in year 2024	
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	Number	%*
B. Pregnant mothers registered in 2024 and delivered in 2024		
C. Pregnant mothers registered in 2024 who have permanently left the area before delivery		
D. Abortions/ h. mole/ ectopic pregnancies/ pseudo pregnancies etc. in pregnant mothers registered in year 2024		
E. Still births occurred to pregnant mothers registered in year 2024		
F. Number of pregnant mothers who registered in 2025 and delivered a live birth within the same year (2025)		
G. Number of pregnant mothers who have registered in another MOH area and delivered a live birth in 2025, but had come permanently to the MOH area before or immediately following the delivery		

Number of expected births for the year 2025 (H) Formula for H= [A – (B+C+D+E)] + (F+G)	
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Number of births reported for the year 2025 (I)**	
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*Denominator for calculation of % is the number of pregnant mothers registered in 2024 (A)

**Please provide reasons for any disparity between H and I

Background information (Cont.ed)

	Approved cardre	Available cardre	Average Population covered by each category / clinic	Population Range
PHMs				
PHIs				
SPHMs				
PHNS				
SPHI				
MOHs/AMOHs				
MCH Clinics (Except for Central clinic)				
Number of Immunization clinics conducted in District Hospitals (DH) and Primary Medical care Units (PMCU)				
Number of hospitals with established referral immunization clinics				

Area Map indicating access to immunization

(Please present a map indicating immunization clinics and population served by each clinic)

Coverage of BCG vaccination among infants born between 1st of January 2025 to 31st of December 2025 and the protection of their mothers from Tetanus and Rubella vaccination at the time of delivery

Number of registered infants under care (A) $A = (V+W+X) - (Y+Z)$	Number of infants born between 1 st of January 2025 to 31 st of December 2025				
	Registered within 3 months of birth (V)	Registered after 3 months of birth to date (W)	Came newly into the area & registered to date (X)	Left the area to date (Y)	Died to date (Z)

Vaccine	(AA) Number of pregnant mothers registered in year 2024	(A) Number of registered infants under care	(B) Number of estimated births for 2025 #	(C) Number of vaccinations according to BI registers (a)/pregnant mother registers or pregnancy records(b)	(D) Number & % of age-appropriate vaccinations according to BI registers	(E) Number of vaccines given according to EPINET	Coverage according to	
							Registered infants under care *	Estimated births
Formula					$(D/A)*100$		$(C/A)* 100$	$(C/B)* 100$
BCG				(a)				
					Number of mothers unprotected			
TT				(b)				
Rubella				(b)				

To be taken from the slide 2, number 13

Coverage of OPV1 /PVV 1/FIPV1 vaccination among infants born between **01st of November 2024 to 31st of October 2025**

Number of registered infants under care* (A)	Number of infants born between 1st of November 2024 to 31st of October 2025				
	registered within 3 months of birth	registered after 3 months of birth to date	came newly into the area registered to date	left the area to date	Died to date
A = (V+W+X) - (Y+Z)	(V)	(W)	(X)	(Y)	(Z)

Vaccine	(AA) Number of pregnant mothers registered in year 2024	(A) Number of registered infants under care	(B) Number of estimated births For 2025 #	(C) Number of vaccinations according to BI registers	(D) Number & % of age-appropriate vaccinations according to BI registers	(E) Number of vaccines given according to EPINET	Coverage according to		
							Registered infants under care	Estimated births	Number of vaccines given as per EPINET
Formula					$(D/A)*100$		$(C/A) *100$	$(C/B) *100$	$(C/E)*100$
PVV1									
OPV1									
FIPV1									

To be taken from the slide 2, number 13

**Coverage of OPV2 /PVV 2/FIPV2 vaccination among infants born
between 01st of September 2024 to 31st of August 2025**

Number of registered infants under care* (A)	Number of infants born between 01 st of September 2024 to 31 st of August 2025				
	registered within 3 months of birth (V)	registered after 3 months of birth to date (W)	came newly into the area registered to date (X)	left the area to date (Y)	Died to date (Z)
A = (V+W+X) - (Y+Z)					

Vaccine	(AA) Number of pregnant mothers registered in year 2024	(A) Number of registered infants under care	(B) Number of estimated births For 2025 #	(C) Number of vaccinations according to BI registers	(D) Number & % of age-appropriate vaccinations according to BI registers	(E) Number of vaccines given according to EPINET	Coverage according to		
							Registered infants under care	Estimated births	Number of vaccines given as per EPINET
Formula					(D/A)*100		(C/A) *100	(C/B) *100	(C/E)*100
PVV2									
OPV2									
FIPV2									

To be taken from the slide 2, number 13

**Coverage of OPV3 /PVV 3 vaccination among infants born
between 01st of July 2024 to 30th of June 2025**

Number of registered infants under care* (A)	Number of infants born between 01 st of July 2024 to 30 th of June 2025				
	registered within 3 months of birth	registered after 3 months of birth to date	came newly into the area registered to date	left the area to date	Died to date
A = (V+W+X) - (Y+Z)	(V)	(W)	(X)	(Y)	(Z)

Vaccine	(AA) Number of pregnant mothers registered in year 2024	(A) Number of registered infants under care	(B) Number of estimated births For 2025 #	(C) Number of vaccinations according to BI registers	(D) Number & % of age-appropriate vaccinations according to BI registers*	(E) Number of vaccines given according to EPINET	Coverage according to		
							Registered infants under care	Estimated births	Number of vaccines given as per EPINET
Formula					(D/A)*100		(C/A) *100	(C/B) *100	(C/E)*100
PVV3									
OPV3									

**Coverage of MMR1 vaccination among infants born between
01st of April 2024 to 31st of March 2025**

Number of registered infants under care* (A) $A = (V+W+X) - (Y+Z)$	No. of infants born between 01st of April 2024 to 31st of March 2025				
	registered within 3 months of birth (V)	registered after 3 months of birth to date (W)	came newly into the area registered to date (X)	left the area to date (Y)	Died to date (Z)

Vaccine	(AA) Number of pregnant mothers registered in year 2024	(A) Number of registered infants under care	(B) Number of estimated births for 2025 #	(C) Number of vaccinations according to BI registers	(D) Number & % of age-appropriate vaccinations according to BI registers	(E) Number of vaccines given according to EPINET	Coverage according to		
							Registered infants under care	Estimated births	Number of vaccines given as per EPINET
Formula					$(D/A)*100$		$(C/A)* 100$	$(C/B)* 100$	$(C/E) *100$
MMR1									

To be taken from the slide 2, number 13

Coverage of LJE vaccination among infants born between 1st of January 2024 to 31st of December 2024

Number of registered infants under care* (A) $A = (V+W+X) - (Y+Z)$	No. of infants born between 1 st of January 2024 to 31 st of December 2024				
	registered within 3 months of birth (V)	registered after 3 months of birth to date (W)	came newly into the area registered to date (X)	left the area to date (Y)	Died to date (Z)

Vaccine	(AA) Number of pregnant mothers registered in year 2024	(A) Number of registered infants under care	(B) Number of estimated births For 2025 #	(C) Number of vaccinations according to BI registers	(D) Number & % of age-appropriate vaccinations according to BI registers	(E) Number of vaccines given according to EPINET	Coverage according to		
	Registered infants under care	Estimated births	Number of vaccines given as per EPINET						
Formula					(D/A)*100		(C/A)* 100	(C/B)* 100	(C/E) *100
LJEV									

To be taken from the slide 2, number 13

PHM areas with low immunization coverages

(Please include the data for the 3 PHM areas where the lowest immunization coverages have been reported under each category)

Vaccine	PHMM areas with low immunization coverages (%) according to					
	estimated births		registered infants under care		age-appropriate immunizations	
	PHM area	%	PHM area	%	PHM area	%
BCG (ex.)	1	%	1	%	1	%
	2	%	2	%	2	%
	3	%	3	%	3	%
TT(Maternal)						
Rubella(Maternal)						
PVV1/OPV1/FIPV1						
PVV2/OPV2/FIPV2						
PVV3/OPV3						
MMR1						
LJEV						
DPT4/OPV4						
MMR2						
DT/OPV5						

PHM areas with high immunization coverages and high left the area percentages

(Please include the data for the 3 PHM areas with highest coverages under each category/ left the area %)

Vaccine	PHM areas with high immunization coverages (%) according to				PHM areas with highest left the area %	
	estimated births		age-appropriate immunizations		(To be given as a proportion of total number registered (V+W+X))	
	PHM area	%	PHM area	%	PHM area	%
BCG (ex.)	1	%	1	%		
	2	%	2	%		
	3	%	3	%		
TT(Maternal)						
Rubella(Maternal)						
PVV1/OPV1/FIPV1						
PVV2/OPV2/FIPV2						
PVV3/OPV3						
MMR1						
LJEV						
DPT4/OPV4						
MMR2						
DT/OPV5						

The Birth and Immunization Registers should be brought for the PHM areas with highest left the area %

Progress on key recommendations from EPI review 2025 (Refer to the previous minutes)

Issue identified	Root cause/ Gaps identified	Proposed solution	Actions taken	Progress during Q1 and/ or Q2 2026
<p>Eg: Low Age-appropriateness for infant vaccines PVV1 – 88% PVV2 – 90% PVV3 – 86% MMR1-78%</p>	<p>Delays are commonly observed in immunization clinics conducted at PMCUs as they do not receive NIP related updates</p>	<p>Improve awareness among Medical Officers in PMCUs on the importance of maintaining age-appropriate vaccination</p>	<p>Awareness of PMCUs Medical Officers during MOH conferences</p>	<ul style="list-style-type: none"> Age appropriateness in Q1 was >92% for all infant vaccines 3 PMCUs in the MOH. Two PMCUs participated for two MOH conferences held in Q1

Coverage of aTd vaccination among school children in grade 7 & other grades in 2025 (vaccinated from 1Q 2025 to date) by PHI areas

No	PHI area	Number on roll in grade 7 in 2024 (A)		Number of children vaccinated in grade 7 (B)			aTd coverage of year 2025 cohort		Number of vaccinations done for children in other grades (D)	Number of vaccinations done at clinic settings to children WHO attend schools located outside the MOH area (E)	Total number vaccinated in year 2025 (F)=(Ba)+(D)+(E)	
				In Schools and clinics		From other MOOH, PVT sector (Bc)	Total (Bd) (Bd)=(Ba+Bb+Bc)	(C1)=(Bd)/(A1) *100				
		at the time of the survey (A1)	at the time of vaccination (A2)	2025 (Ba)	2026 (Bb)			(C2)=(Bd)/(A2) *100				
								C1				C2
1												
2												
3												
4												
5												
6												
7												
8												
	Total											

(Data source for Column B, D – School Immunization Register)

The School Immunization Registers should be brought for the **ALL** PHI areas

**Coverage of HPV vaccination among female children who were in grade 6 in year 2025
(vaccinated from 1Q 2025 to date) by PHI areas**

No	PHI area	Number of female children on roll in grade 6 in 2025 (A)		Number of HPV1 given (in schools, clinics, by other MOOH, PVT sector) (B)			HPV1 coverage of year 2025 cohort $(C1)=(Bc)/(A1) *100$ $(C2)=(Bc)/(A2) *100$		Number of HPV2 doses given (in schools, clinics, by other MOOH, PVT sector) (D)			HPV2 coverage of year 2025 cohort $(E1)=(Dc)/(A1) *100$ $(E2)=(Dc)/(A2) *100$	
		at the time of the survey (A1)	at the time of vaccination (A2)	(Ba) 2025	(Bb) 2026	(Bc) Total $(Bc)=(Ba+Bb)$	C1	C2	(Da) 2025	(Db) 2026	(Dc) Total $(Dc)=(Da+Db)$	E1	E2
1													
2													
3													
4													
Total													
Number of vaccinations done to children who attend schools located outside the MOH area													

(Data source for Column B, D – School Immunization Register)

The School Immunization Registers should be brought for the **ALL** PHI areas

**Coverage of HPV vaccination among female children who were in grade 6 in year 2024
(vaccinated from 1Q 2024 to date) by PHI areas**

No	PHI area	Number of female children on roll in grade 6 in 2024 (A)		Number of HPV1 given (in schools, clinics, by other MOOH, PVT sector)	HPV1 coverage of year 2024 cohort		Number of HPV2 doses given (in schools, clinics, by other MOOH, PVT sector)	HPV2 coverage of year 2024 cohort	
		at the time of the survey (A1)	at the time of vaccination (A2)		(C1)=(B)/(A1) *100	(C2)=(B)/(A2) *100		(E1)=(Dc)/(A1) *100	(E2)=(Dc)/(A2) *100
				(B)	C1	C2	(D)	E1	E2
1									
2									
3									
4									
Total									
Number of vaccinations done to children who attend schools located outside the MOH area									

(Data source for Column B, D – School Immunization Register)

The School Immunization Registers should be brought for the **ALL** PHI areas

**Coverage of HPV vaccination among female children who were in grade 6 in year 2023
(vaccinated from 1Q 2023 to date) by PHI areas**

No	PHI area	Number of female children on roll in grade 6 in 2023 (A)		Number of HPV1 given (in schools, clinics, by other MOOH, PVT sector) (B)	HPV1 coverage of year 2023 cohort (C1)=(B)/(A1)*100 (C2)=(B)/(A2)*100		Number of HPV2 doses given (in schools, clinics, by other MOOH, PVT sector) (D)	HPV2 coverage of year 2023 cohort (E1)=(Dc)/(A1)*100 (E2)=(Dc)/(A2)*100	
		at the time of the survey (A1)	at the time of vaccination (A2)		C1	C2		E1	E2
1									
2									
3									
4									
Total									
Number of vaccinations done to children who attend schools located outside the MOH area									

(Data source for Column B, D – School Immunization Register)

The School Immunization Registers should be brought for the ALL PHI areas

**Coverage of HPV vaccination among female children who were in grade 6 in year 2022
(vaccinated from 1Q 2022 to date) by PHI areas**

No	PHI area	Number of female children on roll in grade 6 in 2022 (A)		Number of HPV1 given (in schools, clinics, by other MOOH, PVT sector) (B)	HPV1 coverage of year 2022 cohort $(C1)=(B)/(A1) * 100$ $(C2)=(B)/(A2) * 100$		Number of HPV2 doses given (in schools, clinics, by other MOOH, PVT sector) (D)	HPV2 coverage of year 2022 cohort $(E1)=(Dc)/(A1) * 100$ $(E2)=(Dc)/(A2) * 100$	
		at the time of the survey (A1)	at the time of vaccination (A2)		C1	C2		E1	E2
1									
2									
3									
4									
Total									
Number of vaccinations done to children who attend schools located outside the MOH area									

(Data source for Column B, D – School Immunization Register)

The School Immunization Registers should be brought for the ALL PHI areas

Adverse events following immunization (A.E.F.I.)

No. of Monthly AEFI Returns expected to be sent to the Epidemiological Unit during 2025		12
No. of Monthly AEFI Returns sent		
No. of Monthly AEFI Returns sent on time		
No of "Nil" returns sent		
Emergency tray	Availability –Yes/No	Taking to the clinic/school- Yes/No

Types of AEFIs reported during 2025

Type of AEFI	Number Reported	No Investigated	% Investigated
Injection site abscess			
BCG lymphadenitis			
Severe local reactions			
Encephalitis/Encephalopathy			
Meningitis			
Seizures (Febrile + Afebrile)			
Anaphylaxis			
Persistent Screaming			
HHE			
Deaths			
Nodules			
High Fever			
Allergic reactions			

Rates of AEFIs reported during 2025

Antigen	Type of AEFI	Number of AEFI Reported (A)	Number of doses administered (B)	AEFI Rate (C) (C=(A)/(B)*100,000)	National Rates for 2025 (Per 100,000 doses)
BCG	BCG lymphadenitis				0.57
Penta	Seizures (Febrile + Afebrile)				9.62
	Anaphylaxis				0.34
	Persistent Screaming				0.51
	HHE				0.86
	Allergic reaction				94.47
DPT	Seizures (Febrile + Afebrile)				272.65
	Anaphylaxis				0.48
	Persistent Screaming				1.45
	HHE				0.48
	Allergic reaction				425.41
MMR	Seizures (Febrile + Afebrile)				5.16
	Anaphylaxis				4.51
	Allergic reaction				98.82
	Parotitis				
JE	Seizures (Febrile + Afebrile)				15.79
	Anaphylaxis				0.48
	Allergic reaction				31.11
	Encephalitis/Encephalopathy				0.00
	Meningitis				
aTd	Fainting attacks(syncope)				
HPV	Anaphylaxis				1.32
	Allergic reaction				7.02
	Fainting attacks(syncope)				
Other*					

Status of cold chain maintenance

Information regarding cold chain equipment in MOH office

Type	No. available		No. in Working order		Capacity (liters)
	2025	2026 (to date)	2025	2026 (to date)	
ILR					
Freezer					
Domestic Refrigerator					
Thermometer					
Fridge tag					
Freeze tag					

Please bring the temperature charts and printouts of Fridge tag recordings for year 2025 and 2026 to the review.

1	Were there any cold chain breakdowns during the reporting period? (If yes, please describe such situations)	
2	Who is in charge of the refrigerator and vaccine?	
3	Who is in charge of the daily recording of temperature?	
4	Has the temperature chart maintained daily during the reporting period (12 Months)?	
5	How often Fridge tag printout are being taking?	
6	How many print outs available in the file for the year under review?	
7	Were there situations vaccines exposed to sub zero temperatures?	
8	Were there any mismatches in temperature recordings and fridge tag recordings? (If yes, please describe such situations with possible reasons)	

Generator	Availability –Yes/No	In working order- Yes/No	Auto start / Manual start
Voltage Stabilizer	Availability –Yes/No	In working order- Yes/No	
Portable oxygen cylinder	Availability –Yes/No	In working order- Yes/No	Taking to the clinic- Yes/No
Contingency plan	Availability –Yes/No		

Notification and investigation of Vaccine Preventable Diseases (VPD)- 2025

Disease	No. Reported (A)	No. Investigated (B)	No, confirmed (C)	% Investigated (D) (D)=(B)/(A)*100	No. of special investigation forms sent (E)	% of special investigation forms sent (F) (F)=(E)/(C)*100
Whooping Cough						
Tetanus						
NNT						
Fever and Maculopapular rash						
CRS						
AFP						
Encephalitis						
Meningitis						
Mumps						
Total						

REASONS FOR NOT-VACCINATING

REASON	NUMBER OF CHILDREN
Medical reasons	
Vaccine refusal/ hesitancy	
Advised by the VOG without a valid medical reason (for TT)	
Other (specify)	

This slide should be completed for each vaccine separately and be presented with the coverage slides for the respective vaccine

REASONS FOR DELAYS IN VACCINATION

MODIFIABLE REASONS	NUMBER OF CHILDREN	NON-MODIFIABLE REASONS	NUMBER OF CHILDREN

(Should be completed separately for each vaccine and be placed after the coverage slide of the respective vaccine)