

**EPI QUARTERLY RETURN
EXPANDED PROGRAMME ON IMMUNIZATION (EPI)**

EPID/EPI/1/2013

Year	Quarter

RDHS area- <i>For RDHS/MOOH only</i>	MOH area- <i>For MOOH only</i>
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MOH area- <i>For institutions /GPP only</i>	Institution /GP- <i>For institutions /GPP only</i>
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1. CALCULATION OF PERCENTAGE COVERAGE – EXPLANATORY NOTES

(i) CALCULATION OF % COVERAGE OF INFANTS (According to estimated births) **FOR MOOH and RDDHS ONLY**

Estimated population for the year (from the Medical Statistician) =Say A

CBR for the year per 1000 population =Say B

∴ Estimated No. of infants for the year = $\frac{A \times B}{1000}$ = Say C

∴ Estimated No. of infants for the quarter =C/4 = Say D

Total No. of infants immunized during the quarter =Say E

∴ % coverage of infants =E/D x 100

Registered births for previous Year (From Birth & Immunization registers of all PHMM)

Actual population	Urban	Rural	Estate	Total

Estimated population (From the medical statistician) (A)

CBR(Crude Birth Rate)for the year per 1000 population (B)

Estimated infants for the current Year (C)

Estimated infants for the current Quarter (D)

(ii) CALCULATION OF % COVERAGE OF PREGNANT WOMEN PROTECTED AGAINST TETANUS

Immunization with Tetanus Toxoid vaccine during pregnancy should be interpreted as follows.

(a) 1 st dose	=	During 1 st pregnancy
(b) 2 nd dose	=	During 1 st pregnancy
(c) 3 rd dose	=	During 2 nd pregnancy
(d) 4 th dose	=	During 3 rd pregnancy
(e) 5 th dose	=	During 4 th pregnancy
(f) One booster dose (TTb)	=	During 1 st pregnancy with a written evidence of previously being immunized with six (6) doses of Tetanus Toxoid according as per National EPI schedule (3 doses of DPT in infancy + DPT at 18 months+ DT at 5 years+ aTd at 12 years) during childhood and adolescent and a gap of 10 years or more after last Tetanus vaccination
(g) Not indicated	=	(i) Mothers who have received five doses of tetanus toxoid during previous pregnancies and who are now protected and thus do not need a dose of TT for the present pregnancy (ii) Mothers who have received 6 doses of Tetanus Toxoid according to the National EPI schedule during childhood and adolescent and have received at least one booster dose of Tetanus Toxoid during pregnancy or due to trauma within last 10 years

(iii) ENUMERATION OF TETANUS TOXOID DOSES USED FOR OTHER (TRAUMA) CASES

Number of Tetanus Toxoid doses used in the medical institutions (OPD and inward patients), Central Dispensaries (CD) and by the General Practitioners for immunization other than the EPI schedule.

2. EPI QUARTERLY RETURN SHOULD BE SENT

- (i) By O/I.C of Med Institutions/ Estate and General Practitioners to the MOH of the area before the 10th of the month following the quarter.
- (ii) By MOH , two copies to the RDHS/Regional Epidemiologist before the 20th of the month following the quarter.
- (iii) By RDHS/Regional Epidemiologist one copy of corrected MOOH EPI quarterly returns to the Epidemiologist before the 10th of the second month following the quarter.
- (iv) By RDHS/Regional Epidemiologist consolidated district EPI quarterly return to the Epidemiologist before the 10th of the second month following the quarter.

MOH Area / RDHS Division / Institution / General Practitioner :

Year Quarter Estimated No. of Infants for the Quarter (from page 1, (I) (D)) =

ANTIGEN / DOSE	No. of Immunization from the returns of					% ** Coverage	% ** Coverage
	MOH Clinics	Hospitals	Estates	GPP	Total	(Est. Births)	#
B.C.G.							
Infants 1 st dose							
2 nd dose							
PENTAVALENT VACCINE (PVV)							
1 st dose							
2 nd dose							
3 rd dose							
DPT							
4 th dose							
ORAL POLIO VACCINE (OPV)							
1 st dose							
2 nd dose							
3 rd dose							
4 th dose							
(At 5 years) 5 th dose							
Extra dose							
MEASLES MUMPS & RUBELLA VACCINES (MMR)							
1 st dose(on completion of 1 st year)							
2 nd dose(on completion of 3 rd year)							
As Rubella containing vaccine (For females at 16-44 years)							
LIVE JE VACCINE(LJEV)							
1 st Birth Cohort (on completion of 9 months)							
Other Birth Cohorts							
DOUBLE VACCINE (DT)							
1 st dose							
2 nd dose							
3 rd dose							
4 th dose							
(At 5 years) 5 th dose							
TETANUS TOXOID (TT)							
Pregnancy (a) 1 st dose							
(b) 2 nd dose							
(c) 3 rd dose							
(d) 4 th dose							
(e) 5 th dose							
(f) Booster dose							
(g) Not indicated							
Total No. of mothers Protected = (b+c+d+e+f+g)							
Other (Trauma) 1 st dose							
2 nd dose							
3 rd dose							
Booster doses							
OTHER VACCINES							
aTd VACCINE (on completion of 12 years)	No. of aTd vaccinations given during the quarter					Total No. of students in grade 7 (No on roll)	
	In schools (SMI)	MOH clinics	Hospitals	Estates	GPP	Total	
No. of aTd vaccinations given during							
No. given to children	(a) 1 st quarter	(b) 2 nd quarter	(c) 3 rd quarter	(d) 4 th quarter	(e) Total up to end of this quarter	Coverage (%) (e)/Estimated births(year)*100	Coverage (%) (e)/Total no of students in grade.7 *100
In grade 7							
In other grades							
Total							

Calculate the coverage according to the antigen (PVV1, PVV2, PVV3) which has reported the highest number of immunizations during the quarter

** Only for MOH and RDHS/RE

Vaccine and AD Syringes STOCK POSITION & WASTAGE at MOH / RDHS level
 (Please specify the quantity of syringes in numbers & quantity of vaccines in doses)

Antigen	Physical balance at the beginning of the quarter (A)	No received during the quarter (B)	No distributed (DIS) to other institutions /discarded due to expiry (EXP) or cold chain failure (CCF) during the quarter (C)			Physical balance at the end of the quarter (D)	Total used in clinics during the quarter (E) = (A + B) – (C+D)	Number of immunizations performed during the quarter (F)	% Wastage (G) = 100 – usage = 100 - (F/E)× 100
			DIS	EXP	CCF				
BCG									
PVV									
DPT									
OPV									
MMR									
JE (Live)									
DT									
TT									
aTd									
Other									
Syringes									
0.05 ml (BCG)							*1		
0.5 ml							2		
2 ml							3		
5 ml							4		

*1 -Total BCG immunizations 2 -Total immunizations performed except BCG and OPV 3 -Total BCG vials used 4 – Total MMR, LJE vaccine vials used

Instructions to calculate vaccine wastage and wastage of AD syringes

- Data for the number of doses of vaccine and AD syringes used in all clinics (**E**) for each vaccine/ AD syringes can be obtained by subtracting the number distributed (**DIS**) to other institutions /discarded due to expiry (**EXP**) or cold chain failure (**CCF**) + physical balance at the end of the quarter (**C+D**) from the physical balance at the beginning of the quarter + doses of vaccine / number of AD syringes received during the quarter (**A+B**)
- Number of Immunizations performed during quarter (**F**) should be extracted from the total column in the **Quarterly EPI Return minus number of immunizations performed** in institutions/estates where vaccines/AD syringes were not obtained from MOH office.
- Please calculate the vaccine wastage as indicated below.

$\text{Wastage (G)} = 100 - \text{Usage (F/E)} * 100$

Instruction on correct collection & transmission of EPI data from MCH clinics

- All immunizations carried out at immunization, antenatal and other clinics should be accurately entered in the **Clinic Immunization Register**.
- Entries in the Clinic Immunization Register should be added correctly at the clinic session and totals should be recorded in the **Clinic Summary**.
- At the end of every month, entries in the clinic summary should be totaled and immunizations performed during the month should be recorded in the **MCH Quarterly Clinic Return**.
- At the end of every quarter the totals in the MCH Quarterly Clinic Return should be sent to the MOH office before the 5th of the following month.
- At the MOH office, entries in all Quarterly MCH clinic Returns received from all immunization clinics in the division and data on all immunizations done in schools should be summarized on a ruled master summary sheet and totaled to get the total immunizations performed during the quarter by the health unit staff.
- All institutions receiving vaccines direct from the RMSD, should complete a Quarterly EPI Return adhering to the above procedure and send it to the MOH/DDHS of the area before the 10th of the month following the quarter.
- MOH/DDHS should make separately total the data receives Quarterly EPI Returns from all institutions, General Practitioners, who receive vaccines from the MOH/DDHS and all the estates in his/her division in time.

- h. MOH/DDHS should make separately total the data received from the above sectors using separate master sheets and the total should be entered in the EPI Quarterly Return under the columns of the respective sector.
- i. Immunizations carried out by different sectors in the MOH/DDHS division for each antigen should be totaled and entered in the "Total" column of the Quarterly Immunization Return.
- J. Immunization coverage for each antigen should be calculated using both estimated births for the quarter and the number of PVV1/PVV2/PVV3, which has reported the highest number of immunizations during the quarter as the denominator and should be entered in the relevant % coverage column.
- k. Immunization coverage for aTd should be calculated using both estimated births for the quarter and the total number of students in grade 7 as the denominator and should be entered in the relevant % coverage column.

Comments & reasons for low/high coverage, high vaccine wastage and issues in use of AD syringes

Name of • Institution • General Practitioner • Estate • MOH Area	Whether Return Received or Not		Name of • Institution • General Practitioner • Estate • MOH Area	Whether Return Received or Not	
	Yes	No		Yes	No

Prepared by (MOH/RDHS level)

Name.....

Designation.....

Signature.....

Date.....

Checked & Signed by (MOH level)

Name.....

Designation.....

Signature.....

Date.....

Checked & Signed by (RDHS level)

Name.....

Designation.....

Signature.....

Date.....

For office use only

- Completeness checked
- Timeliness checked
- Data entry completed