

> Exercise: Using Health Information

Module 7: Part 1 – Expanded Programme of Immunization (EPI)

Q1

You are the MCH supervisor, preparing the EPI Report at the end of the month. The total camp population 15, 750 and the under 1 population is 630.

(a) Refer to the sample data provided in Table 1. Using the Standard and Indicator Guide, calculate the following vaccine coverage rates:

- i. BCG
- ii. Polio
- iii. DPT
- iv. Measles
- v. Full Vaccination

(b) Is Measles coverage always the same as Full Vaccination coverage?

Table 1

Children Vaccinated	Refugee		National
	< 1	≥ 1	
BCG	50	0	6
Polio 0	65	0	8
Polio I	77	0	0
Polio II	54	0	0
Polio III	48	0	0
DPT I	60	0	0
DPT II	52	0	0
DPT III	56	0	0
Measles	59	0	0
Fully Vaccinated	59	0	0

Q2

(a) Calculate the program dropout rate. Is this acceptable?

(b) Can you think of another way in which this could be measured?

Q3

Look at the Vaccine Stock Record Form below. This gives information on the number of vials of vaccine distributed to the camp during the month.

(a) Use the Stock Record Form to enter the number of doses of vaccine supplied to the camp in Table 3.

- (b) Use the information given in Table 1 to calculate the number of doses of vaccine that were administered during the month and enter into Table 3.
- (c) Use the completed information in Table 3 to calculate the missing indicators for vaccine wastage. Are any of these of concern?

Vaccine Stock Record Form

Vaccine	Number of vials supplied	Number of doses per vial
BCG	15	20
Polio	13	20
DPT	17	10
Measles	6	10

Table 3

Vaccine Wastage	No. of doses supplied	No. of doses administered	Vaccine wastage rate
BCG			
Polio			
DPT			
Measles			

Q4

- (a) Do we calculate antenatal tetanus toxoid (TT) coverage in the same way as for the other EPI vaccines? Give an explanation for your answer.
- (b) Do you know how antenatal TT coverage is calculated and where the information comes from?

Q5

The next month, you calculate that DPT coverage has fallen to 73%.

- (a) List three reasons that could explain this.

> Exercise: Using Health Information

Module 7: Part 2 – Growth Monitoring

Q6

You are working in the growth monitoring section of one of the camps. Over the course of 7 months, you observe the following trends in the weight of one of the children.

Weight Trend

Age (months)	6	7	8	9	10	11	12
Weight (kg)	6.5	6.8	6.9	6.9	6.8	7.0	7.1

- Plot the figures in the road to health chart provided. Describe what you see. How could you explain what has happened?
- The child returns aged 16 months, and is at the same weight as when aged 12 months. What would your next steps be?

Q7

At the end of the month you receive the monthly growth monitoring data shown in Table 4. The total population is 30, 319, under five population is 6, 064.

- Calculate the coverage of growth monitoring
(Hint – think carefully about the denominator: what is the target population and how often do they attend for growth monitoring?)
- Look closely at this information. Are any figures of concern? What action would you take and where else could you look in the HIS to corroborate this had occurred?

Table 4

Number of children screened	< 1	≥ 1 - 5
weight for age >80%	113	5146
weight for age 60 - 80%	54	378
weight for age < 60%	0	2
oedema	1	0

MAENDELEO YA KUKUA KWA MTOTO

VIDOKEZO VYA HATARI ZILIZOPO CHUNGUZA VYOTE KILA SAFARI WEKA ALAMA (✓) PANAPOHUSIKA

