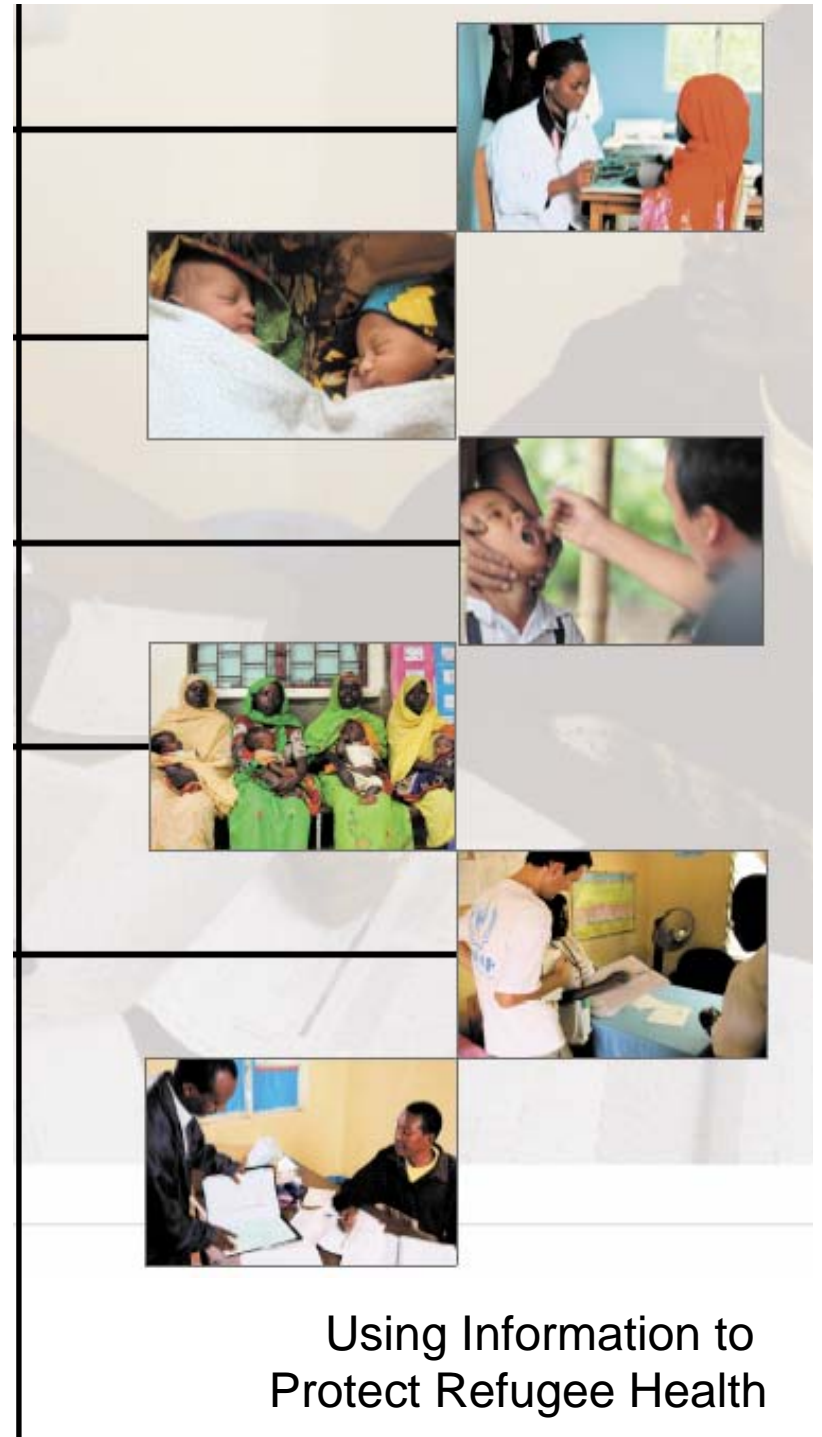


# Health Information System (HIS)

## Module 7 - EPI and Vitamin A



Using Information to  
Protect Refugee Health



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# Learning Objectives

At the end of the module, you should be able to:

- Identify the tools used to monitor the EPI program
- Understand how to collect and report EPI data
- Interpret the data and apply it to public health practice



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# >1 What are the tools used for data collection?

- **Primary Tools**
  - **EPI, Vitamin A, TT and Growth Monitoring Tally Sheets**
  - **Weekly + Monthly EPI Report**
  
- **Secondary Tools**
  - **Road to Health Card**
  - **U5 Register**
  - **NCHS/WHO Reference Values**



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## >2 Who is responsible for collecting the data?

- MCH staff in each camp should take responsibility for recording information
- MCH Supervisor is responsible for compiling Weekly Morbidity Report



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## >3 What data should be collected and how?

- **EPI Tally Sheet:**
  - **Designed according to National MoH schedule**
  - **Each dose must be tallied immediately after it has been administered**
  - **Also recorded in U5 register and in RTH card**
  - **Fully Immunized should be verified using RTH card**

# EPI Vaccination Schedule

Vaccine	Birth	6 wks	10wks	14 wks	9 months
BCG	X				
OPV	X	X	X	X	
DPT		X	X	X	
Measles					X



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Health Information System (HIS)

Slide 6

# Health Information System

Daily Tally Sheet

## 7.1 Children Vaccinated

Name of Organisation \_\_\_\_\_

Name of Camp & Unit \_\_\_\_\_

Date (s) \_\_\_\_\_

Number of doses administered	Refugee						National			
	< 1			≥ 1 to < 5			< 1		≥ 1 to < 5	
BCG	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
Polio 0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
Polio I	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
Polio II	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
Polio III	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
DPT I	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
DPT II	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
DPT III	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
Measles	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			
Fully Vaccinated	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000				0000			

## >3 What data should be collected and how?

- Vitamin A Tally Sheet:
  - **Designed according to National MoH schedule**
  - **Monitoring of post-natal to be adjusted according to agency**





## >3 What data should be collected and how?

- **TT Tally Sheet:**
  - **Designed according to National MoH schedule**
  - **Also record in TT card**
  - **TT administered to pregnant mothers should also be recorded in the ANC Register**



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# TT schedule

Table 2. Recommended schedule for Tetanus Toxoid administration (WHO)

Dose	Time for administration	Duration of protection
TT1	At first contact	No protection
TT2	4 weeks after TT1	Three years
TT3	At least 6 months after TT2	Five years
TT4	At least 1 year after TT3	Ten years
TT5	At least 1 year after TT4	For thirty years**

\*\* throughout a woman's reproductive life



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# Health Information System

Daily Tally Sheet

## 7.4 Tetanus Toxoid

Name of Organisation \_\_\_\_\_

Name of Camp & Unit \_\_\_\_\_

Date (s) \_\_\_\_\_

Number of doses administered	Refugee			National		
	Pregnant	Non-Pregnant	Other	Pregnant	Non-Pregnant	Other
TT 1	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000		00000		00000	
TT 2	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000		00000		00000	
TT 3	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000		00000		00000	
TT 4	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000		00000		00000	
TT 5	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000 00000	00000 00000	00000 00000	00000 00000	00000 00000	00000
	00000		00000		00000	

## >4 How and when should the data be reported?

- Collect tally sheets; convert tallies to numbers
- Enter into Weekly EPI Report
- Vaccine Supply and Wastage calculations



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# Health Information System

Daily Tally Sheet

## 7.1 Children Vaccinated

Name of Org **Health Information System**

Name of Can Daily Tally Sheet

Date (s)

## 7.3 Vitamin A

Name of Organisation \_\_\_\_\_ Organisation \_\_\_\_\_

Name of Camp & Unit \_\_\_\_\_ Camp & Unit \_\_\_\_\_

Date (s) \_\_\_\_\_

Number of doses administered	Refugee				National	
	< 1			≥ 1 to		
BCG	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
Polio 0	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
Polio I	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
Polio II	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
Polio III	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
DPT I	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
DPT II	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
DPT III	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
Measles	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000
Fully Vaccinated	0000	0000	0000	0000	0000	000
	0000	0000	0000	0000	0000	000
	0000	0000	0000		0000	000

Doses distributed	Refugee							National			
	Post-natal	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000		0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000		0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000		0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000		0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000		0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
Dose 1	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
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	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
Dose 2	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
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	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
Dose 3	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000

National				
Pregnant		Non-Pregnant		Other
0000	0000	0000	0000	0000
0000	0000	0000	0000	0000
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0000		0000		
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0000		0000		

## >5 How should the data be interpreted and used?

- Enter data into Monthly Excel Spreadsheet
- Three core, internationally agreed indicators for EPI
  - **A) Vaccination Coverage**
  - **B) Program Drop-out rate**
  - **C) Vaccine Wastage Rate**



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# A) Vaccination Coverage

- Definition:
  - **Proportion of population at risk of disease who have received full course of vaccination for that disease**
- Expressed as:

Number of doses of vaccine administered

x 100%

Target population to be vaccinated



# What is the target population?

## Two commonly used measures:

1. Infant Survival
  - Population under one
2. Child Birth
  - Number of live births

# Routine EPI reporting

## Main weaknesses

- **Under-registration of births**
- **Inaccurate population denominators**

# Coverage rates

Vaccine	Birth	6 wks	10wks	14 wks	9 months
BCG	X				
OPV	X	X	X	X	
DPT	X	X	X	X	
Measles					X

BCG

Polio &  
DPT

Measles

Fully Vaccinated



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## B) Program Drop-out Rate

- Definition:
  - **Proportion of children do not complete a vaccination course after receiving an initial dose**
- Expressed commonly using DPT:

$$\frac{\text{DPT 1 - DPT 3}}{\text{DPT 1}} \times 100\%$$

# Vaccination schedule

Vaccine	Birth	6 wks	10wks	14 wks	9 months
BCG	X				
OPV	X	Y	Y	Y	
DPT		X	X	X	
Measles					X

DPT 1

DPT 3



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# Program Drop-out Rate

- When drop-out rate is less than 10 per cent, children who receive an initial DTP dose are **highly likely** to receive all three required doses, indicating a high level of health-care assistance and performance.



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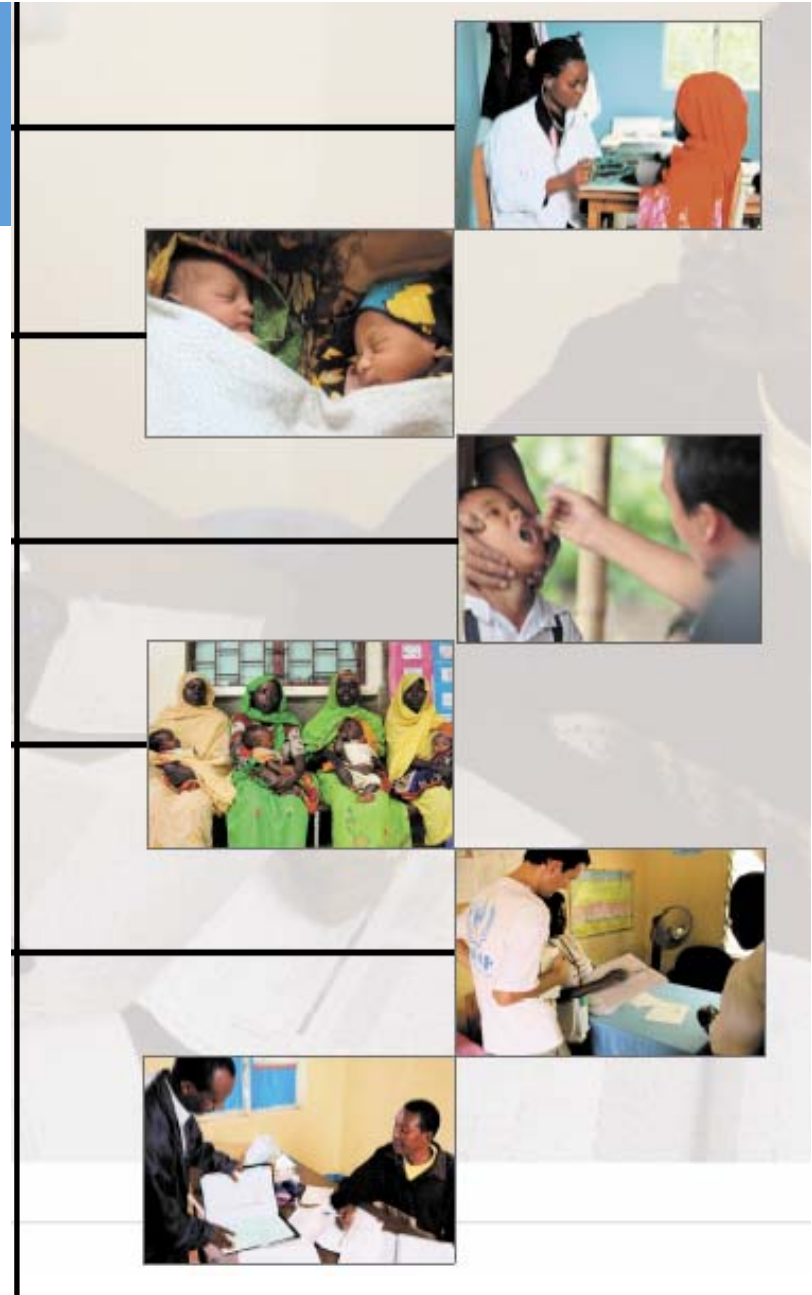
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# Exercise Work

## Health Information System (HIS)

### Module 7: Part 1 – EPI

Questions 1 to 2



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## C) Vaccine Wastage Rate

- Definition:
  - Proportion of vaccine **doses** supplied but not administered
- Expressed as:

Doses supplied - Doses administered

x 100%

---

Doses supplied



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Health Information System (HIS)

Slide 24



# Vials versus Doses

- Important distinction
- Wastage refers to number of **doses**

Doses administered = number of children vaccinated

Doses supplied = obtained from number of doses in each vial

# Common Dose-Vial Sizes

Vaccine	Doses per vial*
BCG	20
Polio	20
DPT	10
Measles	10

\* Also available in 1, 2, 5 , 6 dose vials depending on requirements



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Health Information System (HIS)

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# Example

- 287 newborns receive BCG immunization at birth during one month
- 15 vials of BCG were supplied to the camp pharmacy at the beginning of the month
- $15 \times 20 = 300$  doses supplied

# Example

BCG wastage rate

- = 300 doses supplied - 287 doses given

---

300 doses supplied

= 4.3% of BCG doses supplied were wasted this month



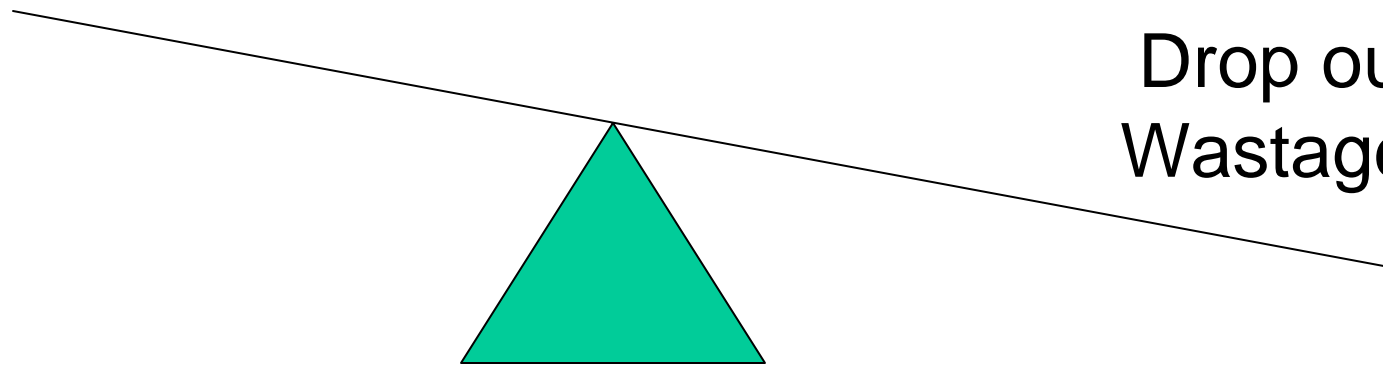
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# Relationship between the indicators

High  
Coverage rate

Low  
Drop out rate  
Wastage Rate



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## Health Information System

Weekly Reporting Form

### 7.0 EPI and Vitamin A

Name of Organisation \_\_\_\_\_

Name of Camp & Unit \_\_\_\_\_

Current Week & Month \_\_\_\_\_

#### 7.1 Children Vaccinated

Doses administered	Refugee		National	
	< 1	≥ 1 to < 5	< 1	≥ 1 to < 5
BCG				
Polio 0				
Polio I				
Polio II				
Polio III				
DPT I				
DPT II				
DPT III				
Measles				
Fully vaccinated				

#### 7.2 Vaccine Supplied

Vaccine	No. of doses supplied
BCG	
Polio	
DPT	
Measles	
Tetanus Toxoid	

#### 7.3 Vitamin A distribution

Doses distributed	Refugee	National
Post natal		
Dose 1		
Dose 2		
Dose 3		
Dose 4 + above		

#### 7.4 Tetanus Toxoid utilisation

Doses administered	Refugee			National		
	Pregnant	Non-Preg.	Other	Pregnant	Non-Preg.	Other
TT 1						
TT 2						
TT 3						
TT 4						
TT 5						

#### 7.5 Growth Monitoring

Number of children screened	Refugee		National
	< 1	≥ 1 to < 5	
Weight for age > 80%			
Weight for age 60 - 80%			
Weight for age < 60%			
Oedema			

## Health Information System

Weekly Reporting Form

Name of Organisation \_\_\_\_\_

Name of Camp & Unit \_\_\_\_\_

Current Week & Month \_\_\_\_\_

### 7.0 EPI and Vitamin A

#### 7.1 Children Vaccinated

Doses administered	Refugee		National	
	< 1	≥ 1 to < 5	< 1	≥ 1 to < 5
BCG				
Polio 0				
Polio I				
Polio II				
Polio III				
DPT I				
DPT II				
DPT III				
Measles				
Fully Vaccinated				

#### 7.2 Vaccine Supplied

Vaccine	No. of doses supplied
BCG	
Polio	
DPT	
Measles	
Tetanus Toxoid	

#### 7.3 Vitamin A distribution

Doses distributed	Refugee	National
Post natal		
Dose 1		
Dose 2		
Dose 3		
Dose 4 + above		

#### 7.4 Tetanus Toxoid utilisation

Doses administered	Refugee			National		
	Pregnant	Non-Preg.	Other	Pregnant	Non-Preg.	Other
TT 1						
TT 2						
TT 3						
TT 4						
TT 5						

#### 7.5 Growth Monitoring

Number of children screened	Refugee		National
	< 1	≥ 1 to < 5	
Weight for age > 80%			
Weight for age 60 - 80%			
Weight for age < 60%			
Oedema			

# Growth Monitoring

- The process of monitoring changes in the weight of a child, every month or at least every 3 months
- The child's weight is plotted on a road health card
- Uses **weight-for-age** index



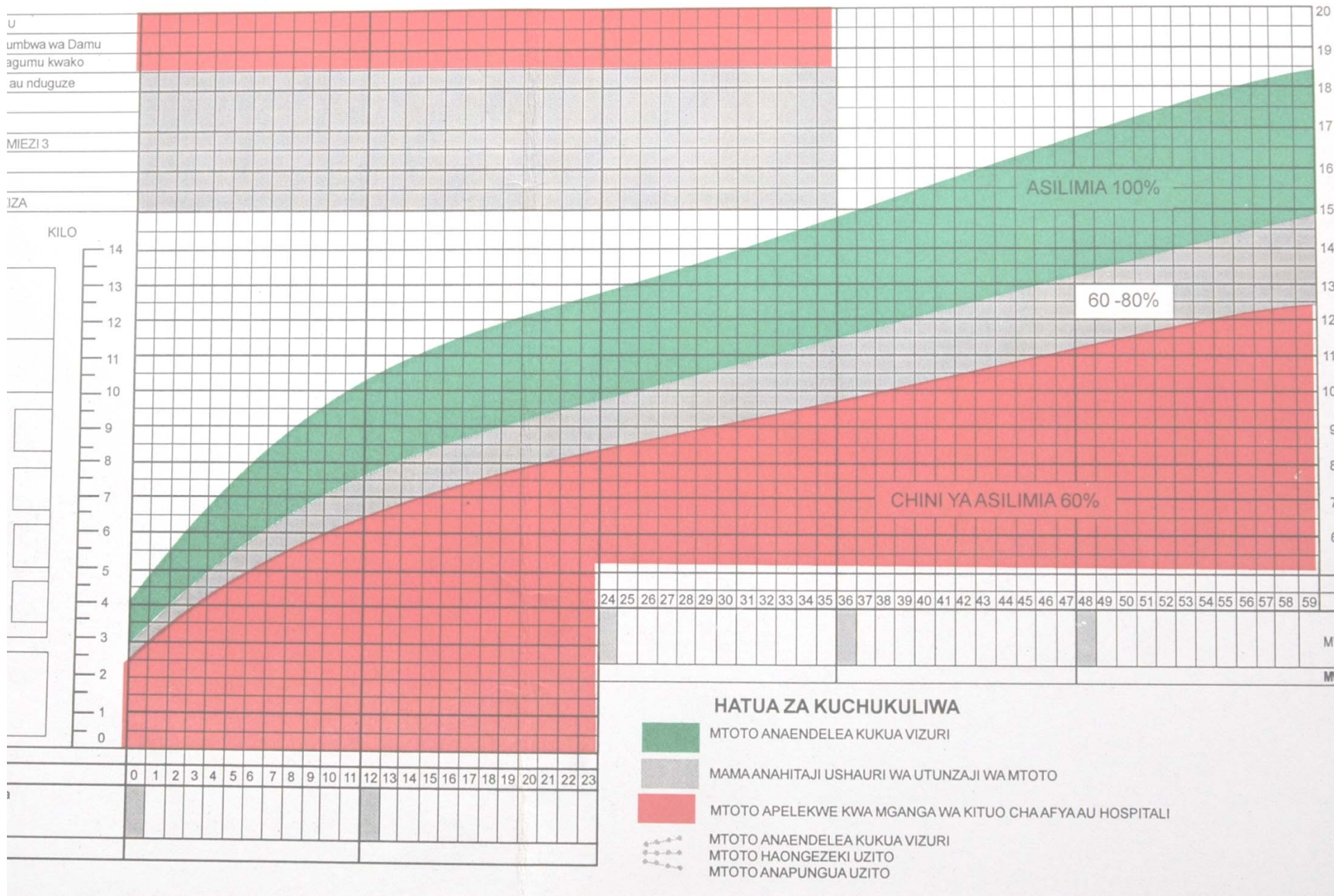
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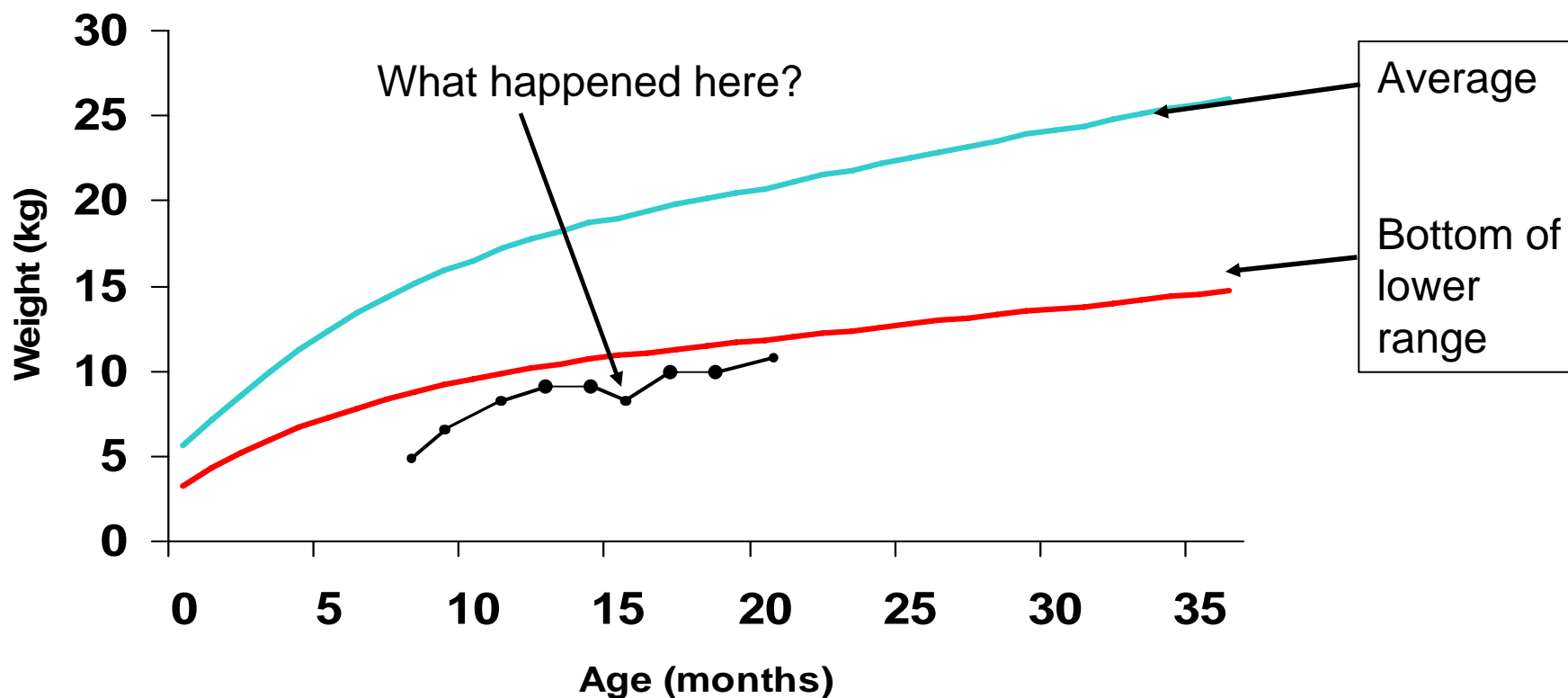


# MAENDELEO YA KUKUA KWA MTOTO

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



# Weight-for-Age Growth Chart



Growth faltering: no change or an actual decrease between successive measurements.

# Uses of Nutritional Indices

- Weight-for-age
  - **Regular screening in growth monitoring**
- Weight-for-height
  - **Entry and discharge from feeding programs**
  - **Measuring nutritional status in populations**



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# What data should be collected and how?

- Growth Monitoring Tally Sheet:
  - **Weight-for-age measurements plotted should be plotted for each child, every month**
  - **According to percentile measurements within MoH RTH cards**
  - **Also include criterion of bilateral, pitting oedema**

# Health Information System

Daily Tally Sheet

Name of Organisation \_\_\_\_\_

Name of Camp & Unit \_\_\_\_\_

## 7.5 Growth Monitoring

Date (s) \_\_\_\_\_

Weight for age	Refugee										National	
	< 1				≥ 1 to < 5							
> 80%	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
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	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
60 - 80%	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
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	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
< 60%	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
Oedema	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	

### 7.3 Vitamin A distribution

Doses distributed	Refugee	National
Post natal		
Dose 1		
Dose 2		
Dose 3		
Dose 4 + above		

### 7.4 Tetanus Toxoid utilisation

Doses administered	Refugee			National		
	Pregnant	Non-Preg.	Other	Pregnant	Non-Preg.	Other
TT 1						
TT 2						
TT 3						
TT 4						
TT 5						

### 7.5 Growth Monitoring

Number of children screened	Refugee		National
	< 1	≥ 1 to < 5	
Weight for age > 80%			
Weight for age 60 - 80%			
Weight for age < 60%			
Oedema			

Health Information System  
Weekly Reporting Form  
7.0 EPI and Vitamin A

Name of Organisation \_\_\_\_\_  
Name of Camp & Unit \_\_\_\_\_  
Current Week & Month \_\_\_\_\_

7.1 Children Vaccinated

Doses administered	Refugee	National
	< 1	≥ 1 to < 5
BCG		
Polio 0		
Polio I		
Polio II		
Polio III		
DPT I		
DPT II		
DPT III		
Measles		
Fully Vaccinated		

7.2 Vaccine Supplied

Vaccine	No. of doses supplied
BCG	
Polio	
DPT	
Measles	
Tetanus Toxoid	

Health Information System  
Weekly Reporting Form  
7.0 EPI and Vitamin A

Name of Organisation \_\_\_\_\_  
Name of Camp & Unit \_\_\_\_\_  
Current Week & Month \_\_\_\_\_

7.1 Children Vaccinated

Doses administered	Refugee	National
	< 1	≥ 1 to < 5
BCG		
Polio 0		
Polio I		
Polio II		
Polio III		
DPT I		
DPT II		
DPT III		
Measles		
Fully Vaccinated		

7.2 Vaccine Supplied

Vaccine	No. of doses supplied
BCG	
Polio	
DPT	
Measles	
Tetanus Toxoid	

Health Information System  
Weekly Reporting Form  
7.0 EPI and Vitamin A

Name of Organisation \_\_\_\_\_  
Name of Camp & Unit \_\_\_\_\_  
Current Week & Month \_\_\_\_\_

7.1 Children Vaccinated

Doses administered	Refugee	National
	< 1	≥ 1 to < 5
BCG		
Polio 0		
Polio I		
Polio II		
Polio III		
DPT I		
DPT II		
DPT III		
Measles		
Fully Vaccinated		

7.2 Vaccine Supplied

Vaccine	No. of doses supplied
BCG	
Polio	
DPT	
Measles	
Tetanus Toxoid	

Health Information System  
Weekly Reporting Form  
7.0 EPI and Vitamin A

Name of Organisation \_\_\_\_\_  
Name of Camp & Unit \_\_\_\_\_  
Current Week & Month \_\_\_\_\_

7.1 Children Vaccinated

Doses administered	Refugee	National
	< 1	≥ 1 to < 5
BCG		
Polio 0		
Polio I		
Polio II		
Polio III		
DPT I		
DPT II		
DPT III		
Measles		
Fully Vaccinated		

7.2 Vaccine Supplied

Vaccine	No. of doses supplied
BCG	
Polio	
DPT	
Measles	
Tetanus Toxoid	

Health Information System  
Weekly Reporting Form  
7.0 EPI and Vitamin A

Name of Organisation \_\_\_\_\_  
Name of Camp & Unit \_\_\_\_\_  
Current Week & Month \_\_\_\_\_

7.1 Children Vaccinated

Doses administered	Refugee	National
	< 1	≥ 1 to < 5
BCG		
Polio 0		
Polio I		
Polio II		
Polio III		
DPT I		
DPT II		
DPT III		
Measles		
Fully Vaccinated		

7.2 Vaccine Supplied

Vaccine	No. of doses supplied
BCG	
Polio	
DPT	
Measles	
Tetanus Toxoid	

### 7.0 EPI and Vitamin A

#### 7.1 Children Vaccinated

Doses administered	Refugee		Total	National	
	< 1	≥ 1 to < 5		< 1	≥ 1 to < 5
BCG			0		
Polio 0			0		
Polio I			0		
Polio II			0		
Polio III			0		
DPT I			0		
DPT II			0		
DPT III			0		
Measles			0		
Fully Vaccinated			0		

EPI Indicators	
Target Population for reporting period	0
<b>a. Program dropout rate</b>	
<b>b. Vaccine coverage rate</b>	
BCG	
Polio	
DPT	
Measles	
Fully Vaccinated	

#### 7.2 Vaccine Wastage

Vaccine	No. of doses supplied	No. doses administered
BCG		0
Polio		0
DPT		0
Measles		0
Tetanus Toxoid		0

c. Vaccine Wastage Rate	
BCG	
Polio	
DPT	
Measles	
Tetanus Toxoid	

#### 7.3 Vitamin A distribution

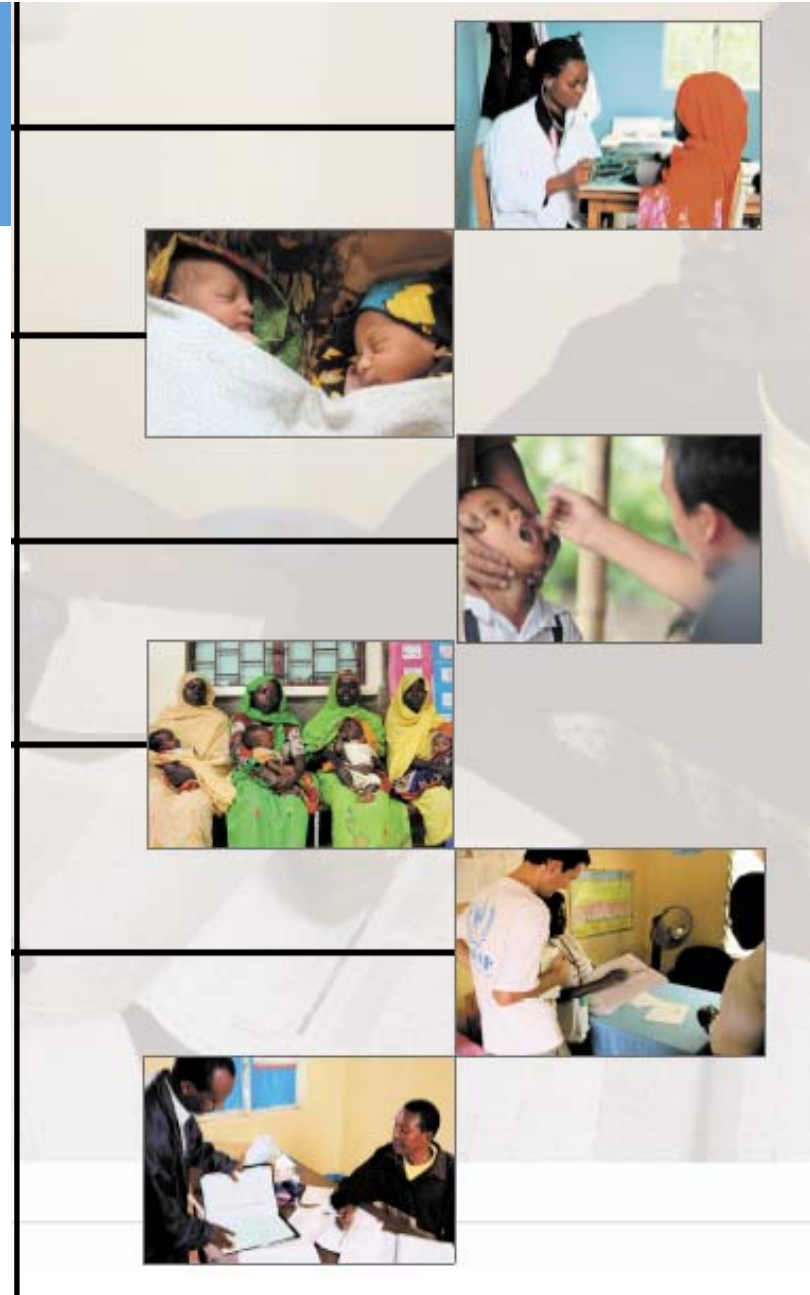
Doses distributed	Refugee	Nat	Total
Post natal			0

# Exercise Work

## Health Information System (HIS)

### Module 7: Part 1 – EPI

#### Questions 3 - 6



**UNHCR**

United Nations High Commissioner for Refugees  
Haut Commissariat des Nations Unies pour les réfugiés