

> Exercise: Using Health Information

Modules 1 & 2 – Population and Mortality

Q1

You are the Medical Officer in a camp. It is the end of the reporting month, and you are busy compiling the statistics for the Monthly Report.

- Look at Table 1. How is this information currently collected in your camp(s)?
- Complete the missing indicator values for Females 15-49 and Pregnant and Lactating women, using agreed population estimates in the Standard and Indicator Guide.

Table 1

Population	Male	Female	Total
Total Population	16975	17667	34642
Number of live births	60	58	118
Number of infants <1 year	694	602	1296
Number of children <5 years	3332	3291	6623
Number of females 15-49 years			
Number of pregnant and lactating			

Q2

Look at Table 2 showing the number of age-specific deaths this month.

- Using the population figures in Table 1, calculate the following mortality rates per 1000 population per month:
(*Hint – Use Standard and Indicator Guide to help with formulae*)
 - Crude Mortality Rate
 - Under Five Mortality Rate
 - Crude Male Mortality Rate
 - Under Five Female Mortality Rate
- Compare your results with the benchmarks in the Standards and Indicators Guide. Are any results of concern? What else would you like to know?

Table 2

Mortality by Age	Refugee			National	
	< 1	≥ 1 < 5	≥ 5	< 5	≥ 5
Male	3	2	5	1	1
Female	8	4	1	0	0

Q3

You have now received information on the causes of the deaths that occurred during the month (see Table 3).

(a) Calculate the following crude or under five proportional mortality rates for the following diseases (as specified):

- i. Malaria (U5)
- ii. LRTI (U5)
- iii. Tuberculosis (Crude)

(b) Calculate the following mortality indicators:

- i. Neonatal Mortality Rate
- ii. Maternal Mortality Ratio
- iii. Look at the Standards and Indicators Guide. How would you interpret these results and what would your next steps be?

(c) Now calculate the Infant Mortality Rate. Is this within acceptable limits? How does this help explain the U5MR calculated in Q2, and what would your response be to this information?

Table 3

Mortality by Cause	Refugee					Total Crude	National		Total
	< 5		Total < 5	≥ 5			< 5	≥ 5	
	Male	Female		Male	Female				
1. Malaria (confirmed)	2	6	8	3	0	11	1	0	1
2. LRTI	0	2	2	0	0	2	0	0	0
3. Watery diarrhoea	0	0	0	0	0	0	0	0	0
4. Bloody diarrhoea	0	0	0	0	0	0	0	0	0
5. Tuberculosis	0	0	0	1	0	1	0	0	0
6. Measles	0	0	0	0	0	0	0	0	0
7. Meningitis	1	0	1	0	0	1	0	0	0
8. AIDS	0	0	0	0	0	0	0	0	0
9. Maternal death					1	1		0	0
10. Neonatal death	1	2	3			3			0
11. Acute malnutrition	0	0	0	0	0	0	0	0	0
Other	1	2	3	1	0	4	0	1	1
Total	5	12	17	5	1	23	1	1	2