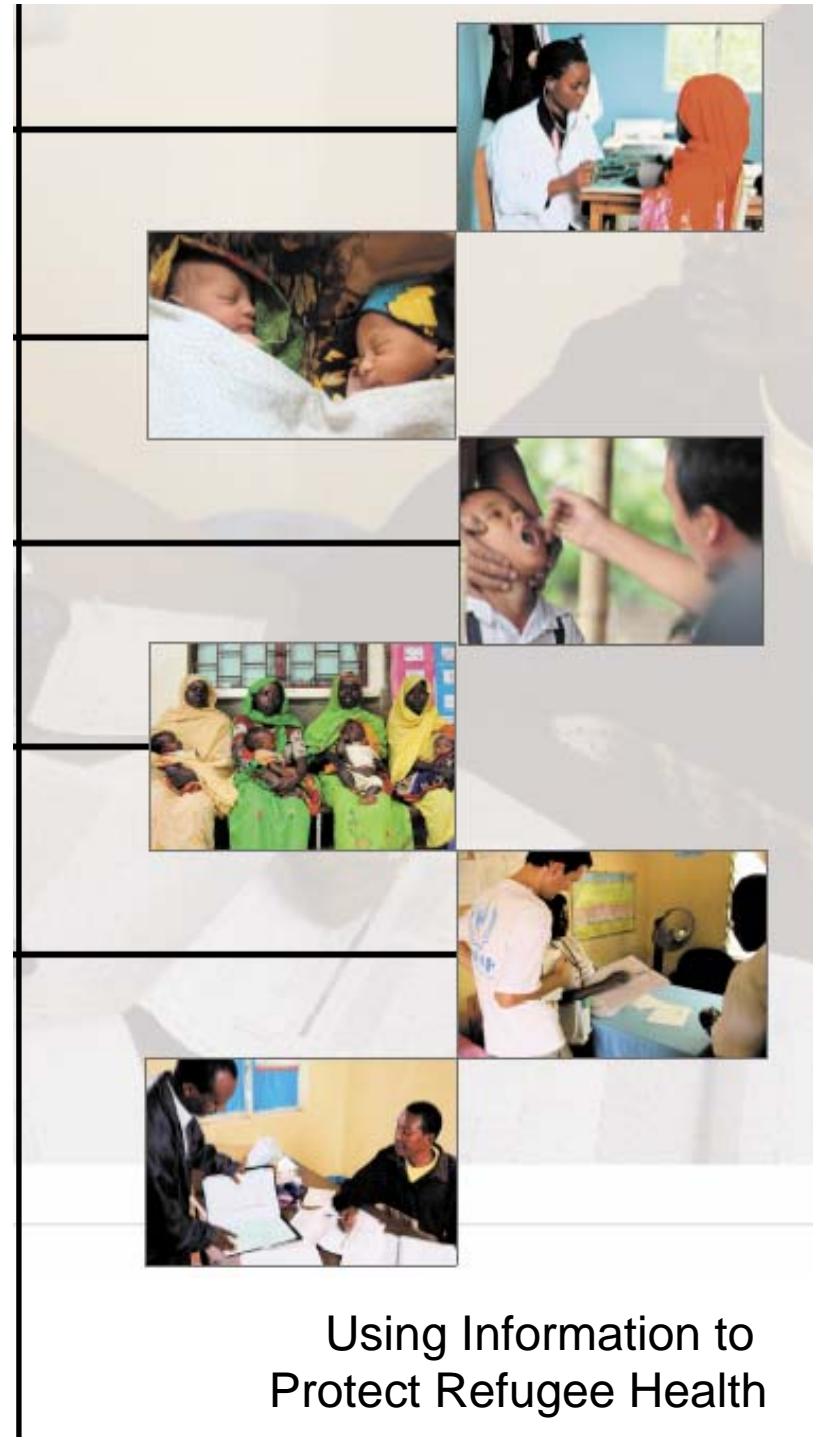


Health Information System (HIS)

Module 2 - Mortality



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 mortality**
- **Understand how to collect and report mortality data**
- **Interpret the data and apply it to public health practice**



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Tools and Guidelines

- >1 What are the tools used for data collection?
- >2 Who is responsible for collecting the data?
- >3 What data should be collected and how?
- >4 How and when should the data be reported?
- >5 How should the data be interpreted and used?



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>1 What are the tools used for data collection?

- Requirements for valid data collection
 - **Good numerator coverage**
 - **Stable data collection over time**
 - **Accurate denominator**
- Prospective vs Retrospective mortality
- Mortality Registers



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>2 Who is responsible for collecting the data?

- Reporting sources:
 - **Health facilities**
 - **Community records**
 - **Cemetery / Burial records**
- Registrar in each camp should take responsibility for recording deaths and triangulating information

>3 What data should be collected and how?

- Critical uses of mortality data in HIS:
 - **Public Health Status**
 - **Vital Statistics**

- Data needs:
 - **Registration**
 - **Classification of cause of death**
 - **Case follow-up**



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Mortality Register

DEATH REGISTRATION							
Serial No.	Ration Card No.	Name	Age [†]	Status (Ref / Nat)	Address	Date of death	Location Home / Hospital / Other (<i>specify</i>)
CLASSIFICATION OF DEATH				CASE FOLLOW-UP			
Direct cause of death*	Underlying cause(s) of death**	Primary cause of death***	Case investigation requested? (Y / N)	Outbreak Alert issued? (Y / N)	Death Notification issued? (Y / N)	→ If YES, enter reference number	

Classification of cause of death

- **1a** Direct Cause
- **(1b** due to)
- **(1c** due to)
- **II** Primary Cause **Malnutrition**

Malnutrition

Malaria



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Health Information System (HIS)

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Classification of cause of death

- **1a** Direct Cause
- **(1b** due to)
- **(1c** due to)
- **II** Primary Cause **HIV/AIDS**

Diarrhoea

Malnutrition

HIV/AIDS

Death Notification / Certification

- Legal role
 - Official record of death
 - Required by relatives and next of kin
- Statistical role
 - Validate population figures
 - Ensure consistent and complete reporting
 - Triangulate across data sources

1. Health Statistics

- Mortality Register

3. Burial Ground

- Graves

Notification

2. Community

- CHW

- Shrouds, Burial materials

Triangulate Information to ensure consistent and complete reporting

Investigation of deaths

- When to investigate
 - **Specific causes determined by health agency**
 - **Prompt convening of investigation team with established ToR**
 - **Maternal deaths**

- What to investigate
 - **Gaps in services**
 - **Referral Procedures**
 - **Areas for skills strengthening / improved performance**



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>4 How and when should the data be reported?

- Retrieve data from Mortality Register
 - **Ensure comprehensive reporting of deaths from all sources**
- Enter into Weekly Mortality Report
 - **Selection of surveillance list**
- Include Line Listing of case-based data

Health Information System

Name of Organisation _____

2.0 Mortality

Name of Camp _____

Weekly and Monthly Reports

Note

Up to six additional causes of death can be reported using this pad. Write the names in the free-spaces on this cover (labelled numbers 12 - 17).

The same names should be written on **all** forms inside this pad.

If you are unsure what to write, please ask your supervisor.

11. Acute malnutrition
12.
13.
14.
15.
16.
17.
18. Unknown
19. Other

*A single form should be used to report weekly / monthly information in each camp.
Provide photocopies if health units wish to prepare individual reports.*

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Health Information System

Name of Organisation _____

Weekly Reporting Form

Name of Camp _____

2.0 Mortality

Current Week & Month _____

2.1 Mortality by Age

	Refugee			National	
	< 1	≥ 1 to < 5	≥ 5	< 5	≥ 5
Male					
Female					

2.2 Mortality by Cause

	Refugee				National	
	< 5		≥ 5		< 5	≥ 5
	Male	Female	Male	Female		
1. Malaria (confirmed)						
2. LRTI						
3. Watery diarrhoea						
4. Bloody diarrhoea						
5. Tuberculosis						
6. Measles						
7. Meningitis						
8. AIDS						
9. Maternal death						
10. Neonatal death						
11. Acute malnutrition						
12.						
13.						
14.						
15.						
16.						
17.						
18. Unknown						
19. Other						

2.3 Maternal Death Investigation

Number of maternal deaths reported	
Number of maternal deaths investigated	

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Country-specific Selection

- 6 'free cells' to name diseases/health events in:
 - **Report forms**
 - **Excel sheet**
- Database will recognise text and store user-defined information
- Requires strong coordination at country and camp level to ensure consistency over time/locations



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Surveillance Criteria

- Does it result in high disease impact?
- Does it have significant epidemic potential?
- Is it a specific target of a national, regional or international control program?
- Will the information collected lead to public health action?



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>5 How should the data be interpreted and used?

- Enter data into Monthly Excel Spreadsheet
- Understand how to interpret and use the indicators that are generated

Health Information System
Weekly Reporting Form
2.0 Mortality

Name of Organisation _____
Name of Camp _____
Current Week & Month _____

2.1 Mortality by Age

	Refugee		National	
	<1	≥1 to <5	<5	≥5
Male				
Female				

2.2 Mortality by Cause

	Refugee		National	
	<5	≥5	<5	≥5
1. Malaria (confirmed)				
2. LRTI				
3. Watery diarrhea				
4. Bloody diarrhea				
5. Tuberculosis				
6. Measles				
7. Meningitis				
8. ACD				
9. Maternal death				
10. Neonatal death				
11. Acute malnutrition				
12.				
13.				
14.				
15.				
16. Other				

Health Information System
Weekly Reporting Form
2.0 Mortality

Name of Organisation _____
Name of Camp _____
Current Week & Month _____

2.1 Mortality by Age

	Refugee		National	
	<1	≥1 to <5	<5	≥5
Male				
Female				

2.2 Mortality by Cause

	Refugee		National	
	<5	≥5	<5	≥5
1. Malaria (confirmed)				
2. LRTI				
3. Watery diarrhea				
4. Bloody diarrhea				
5. Tuberculosis				
6. Measles				
7. Meningitis				
8. ACD				
9. Maternal death				
10. Neonatal death				
11. Acute malnutrition				
12.				
13.				
14.				
15.				
16. Other				

Health Information System
Weekly Reporting Form
2.0 Mortality

Name of Organisation _____
Name of Camp _____
Current Week & Month _____

2.1 Mortality by Age

	Refugee		National	
	<1	≥1 to <5	<5	≥5
Male				
Female				

Health Information System
Weekly Reporting Form
2.0 Mortality

Name of Organisation _____
Name of Camp _____
Current Week & Month _____

2.1 Mortality by Age

	Refugee		National	
	<1	≥1 to <5	<5	≥5
Male				
Female				

Health Information System v0.9.40
Monthly Reporting Form

Name of Organisation	Select Name	Current Month	Select		
10. Neonatal death		0			
11. Acute malnutrition		0			
12.		0			
13.		0			
14.		0			
15.		0			
16. Other		0			
Total		0	0	0	0

51	15	16	17	18
52	22	23	24	25

March 2008

Wk	Sat	Sun	Mon	Tue
10	1	2	3	4
11	8	9	10	11
12	15	16	17	18
13	22	23	24	25

June 2008

Wk	Sat	Sun	Mon	Tue
23	31	1	2	3

Mortality Indicators	Male	Female	Total
Crude Mortality Rate (CMR)			
Under 5 Mortality Rate (U5MR)			
Infant Mortality Rate (IMR)			
Neonatal Mortality Rate (NNMR)			
Maternal Mortality Ratio (MMR)			

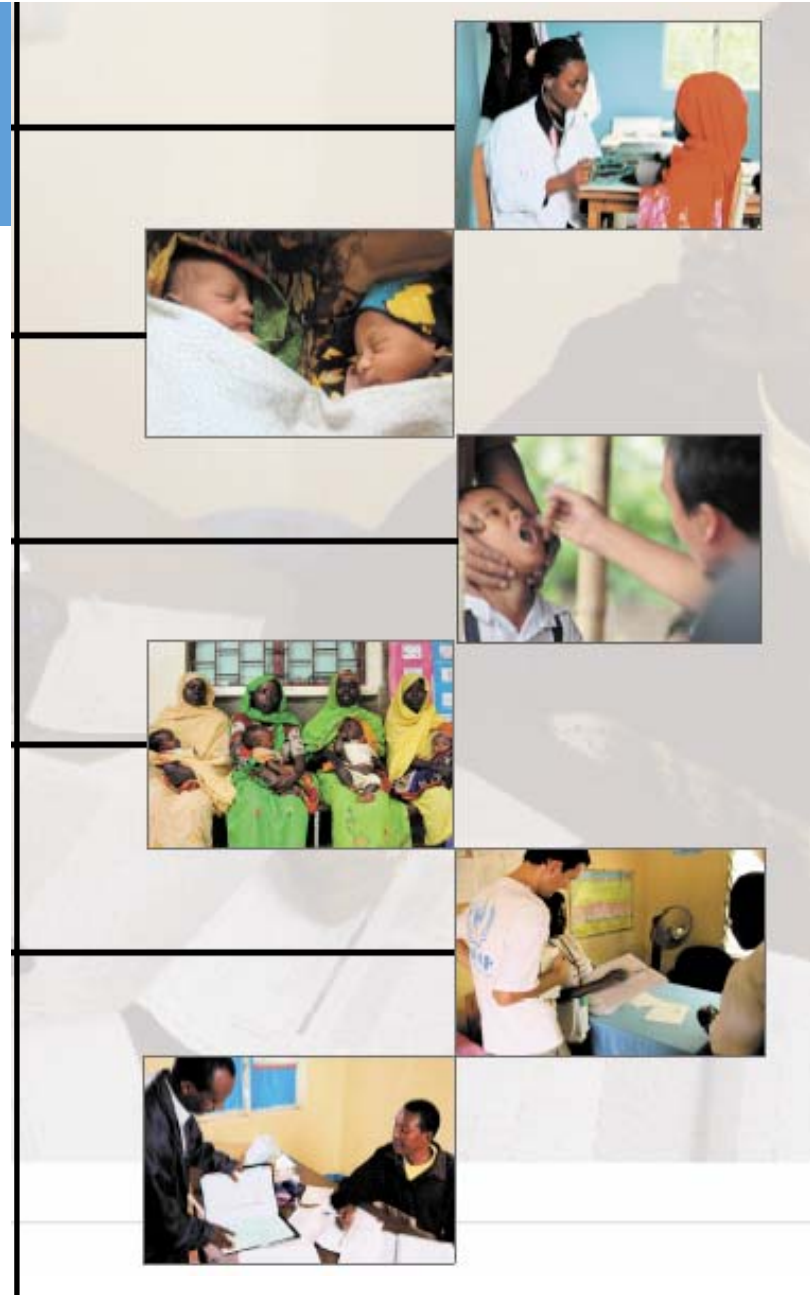
Crude Mortality Rate (CMR)			
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Exercise Work

Health Information System (HIS)

Modules 1 and 2 – Population and Mortality

Questions 1 to 3



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