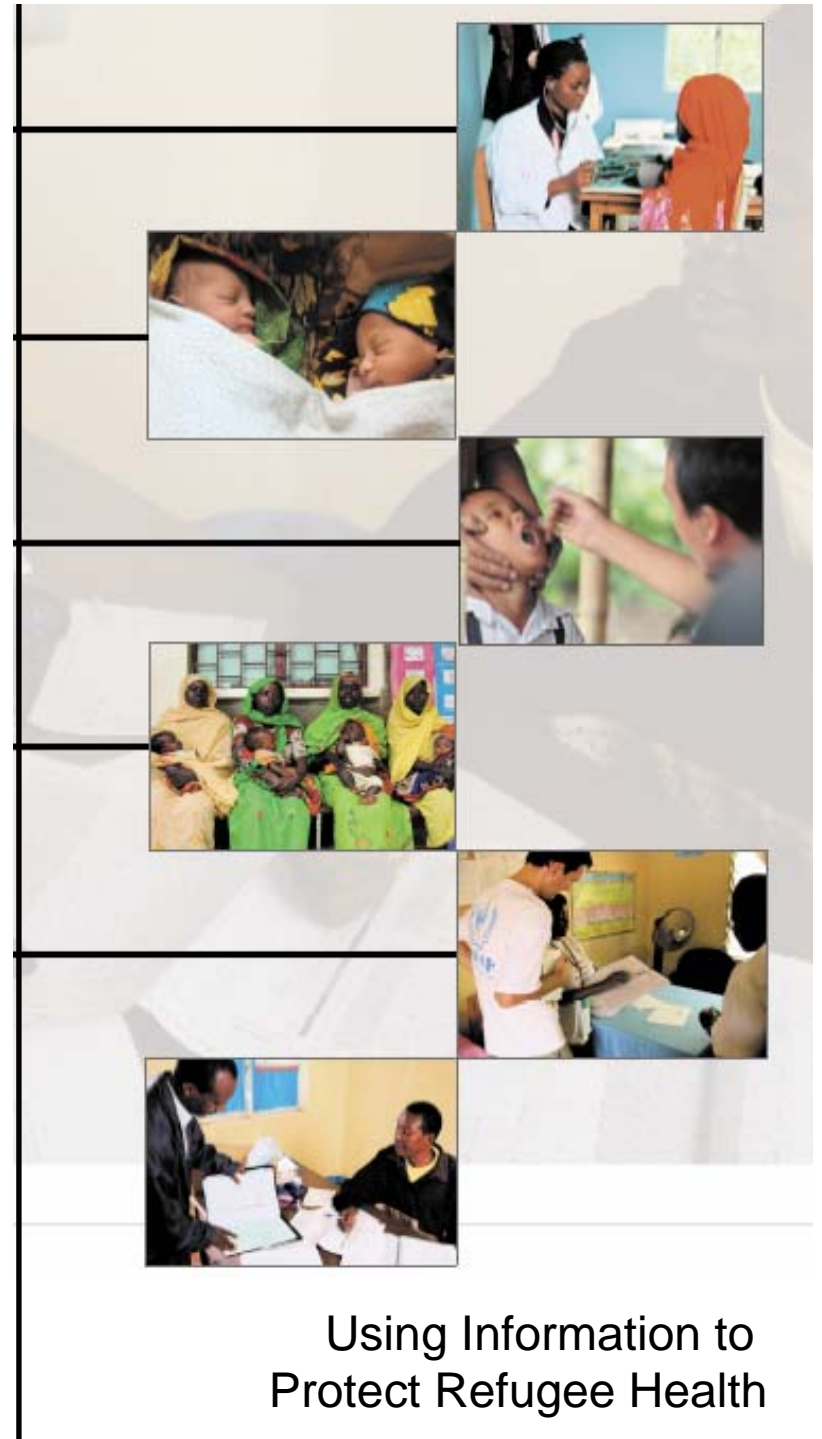


# Health Information System (HIS)

## Module 8 – Nutrition

### Supplementary Feeding Programme



Using Information to  
Protect Refugee Health



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

- **Primary Tools**
  - **Moderate Malnutrition Register**
  - **Pregnant Register**
  - **Lactating Register**
  - **Medical Register**
  - **Weekly + Monthly Nutrition Report**
  
- **Secondary Tools**
  - **Road to Health Card**
  - **ANC card**
  - **NCHS/WHO Reference Values**



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

- SFP staff in each camp should take responsibility for recording information
- Feeding Centre Supervisor is responsible for compiling Weekly Nutrition Report

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

- Registers to monitor care of following nutritionally at-risk groups:
  - **Moderately Malnourished Children**
  - **Pregnant and Lactating Women**
  - **Medical cases**
- Types, objectives and criteria for each program to be based upon nutrition situation on the ground



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# How do we make comparisons?

- Children's weight changes as their height changes
- Weight of a person cannot be compared with another who is taller / shorter
- So what do we use?



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# Importance of Reference Values

An individual child's measurement is compared with the **expected value** of a child of the same height from a **reference population**...

...also known as reference standards or reference values.



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Health Information System (HIS)  
Slide 6

# Which reference values should you use?

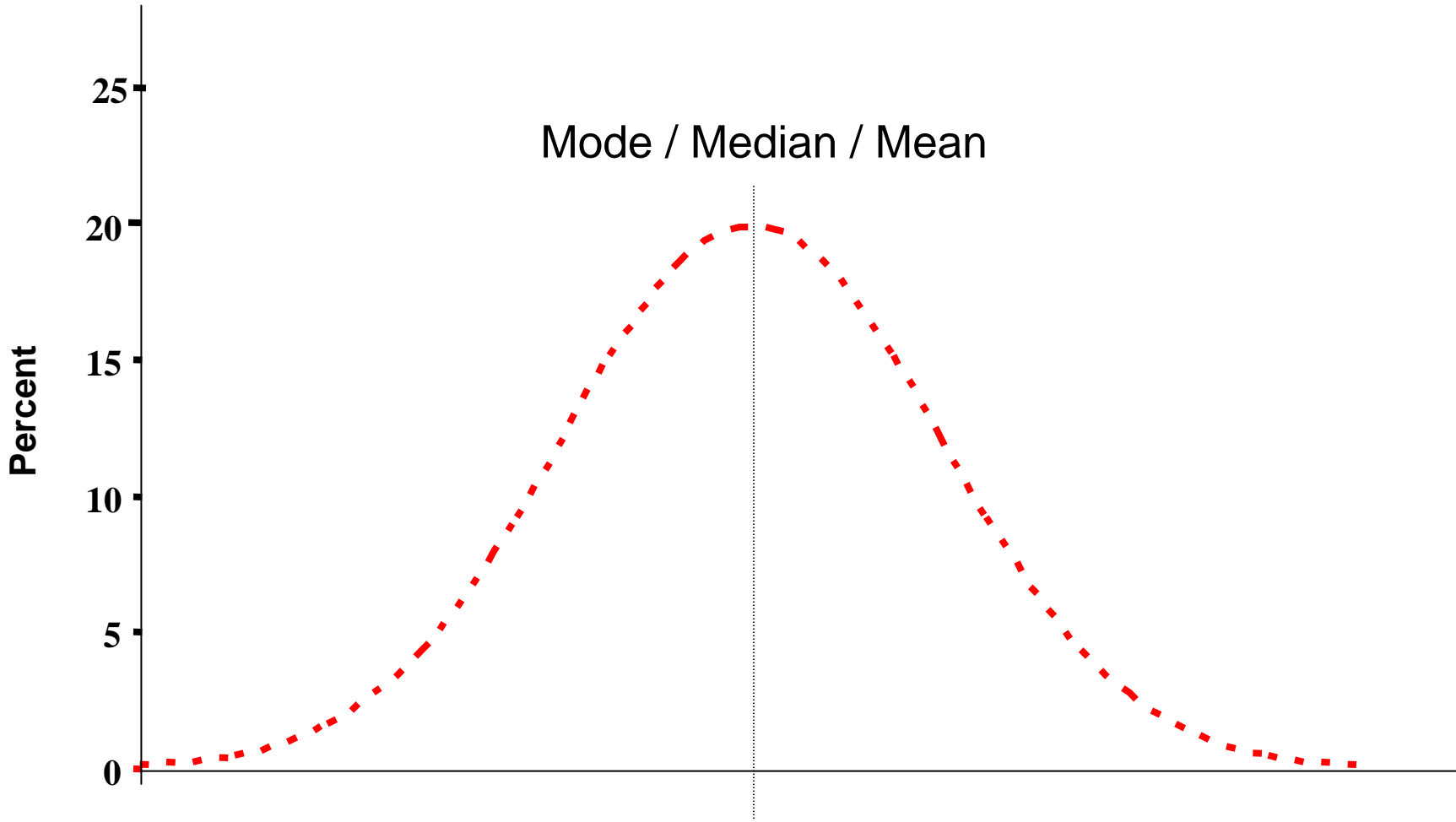
**WHO** recommends

***International Reference Values,***

...known as the NCHS/WHO/CDC reference values.

What does a reference population look like?

# Normal Distribution of Data





# NCHS/WHO Reference Table - Girls

What is median weight for girls with height 85.0cm?

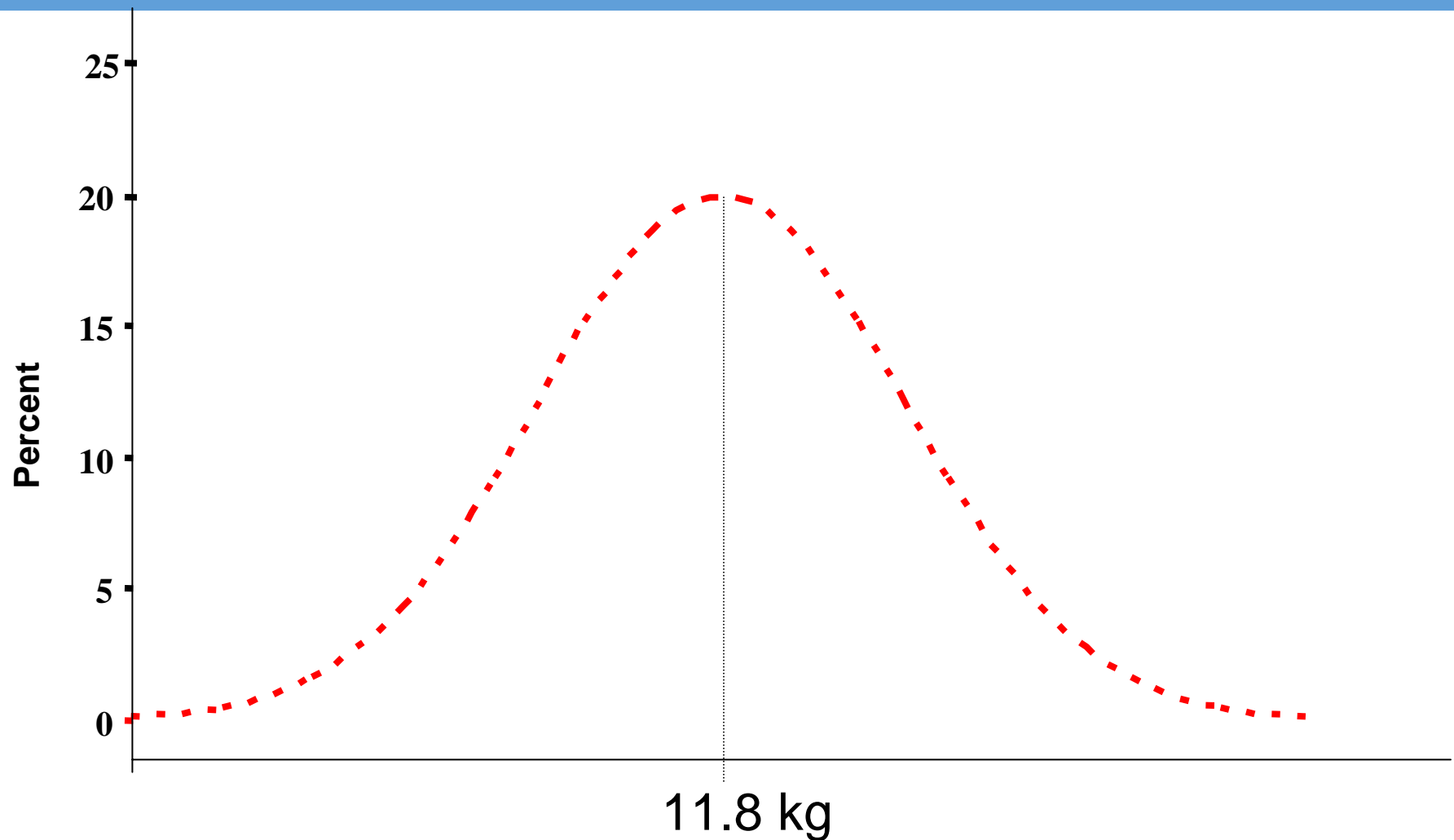
Ht (cm)	Median wt (kg)	< 90%	< 80%	<70%
84.0	11.4	10.5	9.6	8.7
85.0	11.8	10.8	9.7	8.6
86.0	12.0	11.0	9.9	8.8
87.0	12.3	11.2	10.1	9.0



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# Normal Distribution of weight for girls with height 85.0 cm



These reference values are used to calculate....

An individual's nutritional status (their anthropometric status) as either:

Z-score  
(or SD)

Percent (%) of the  
median



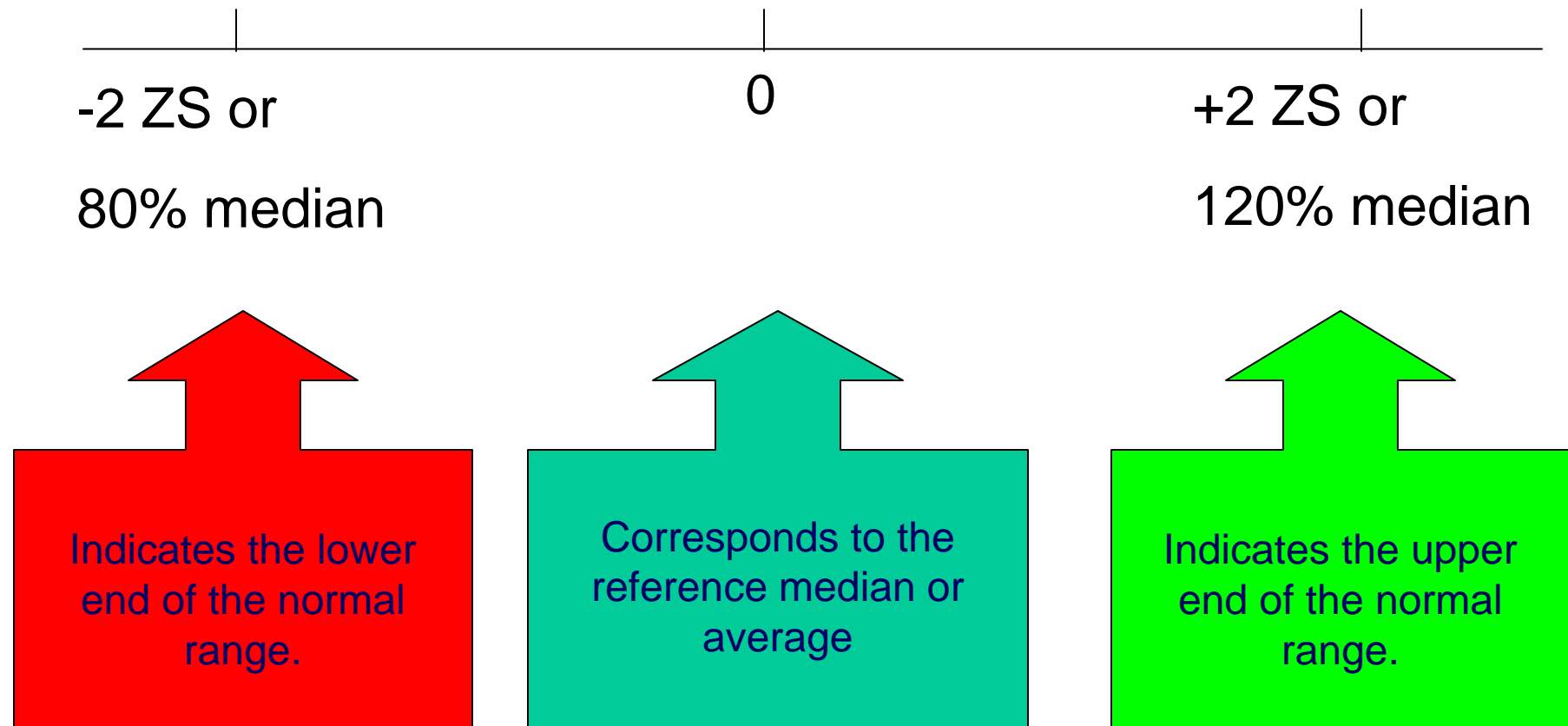
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Health Information System (HIS)

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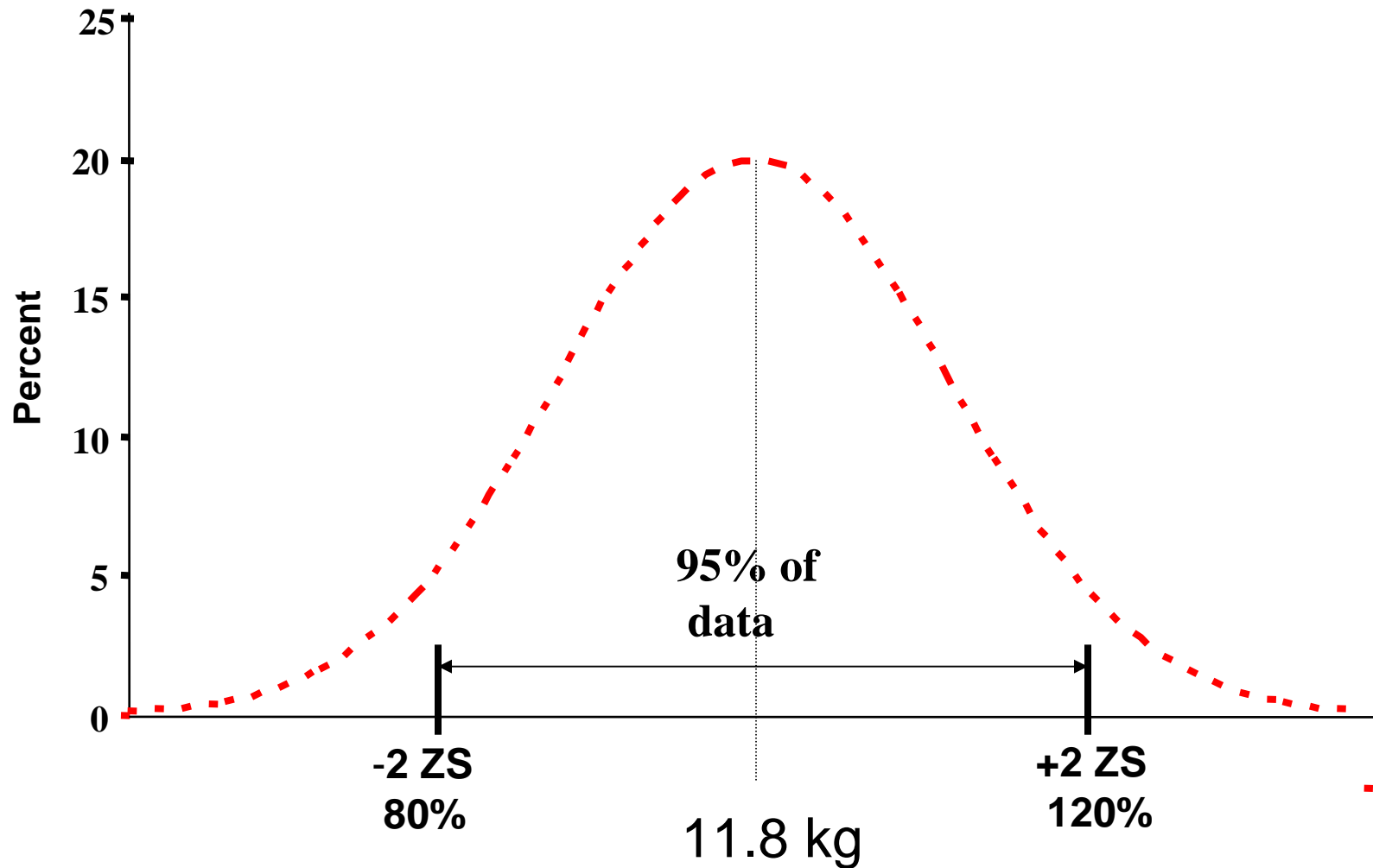
# Relation between WFH ZS and % median



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# Normal Distribution of weight for girls with height 85.0 cm



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# Normal Distribution of weight for girls with height 85.0 cm

Ht (cm)	Median wt (kg) <i>Moderate</i>	<i>Mild</i> < 90% or < -1 ZS	< 80% or < -2 ZS	<70% or < -3 ZS
84.0	11.4	10.5	9.6	8.7
85.0	11.8	10.8	9.7	8.6
86.0	12.0	11.0	9.9	8.8
87.0	12.3	11.2	10.1	9.0

*Severe*

# Example

- Back to our young girl who is 85.0 cm in height
- She weighs 9.0 kg
- The reference median is 11.8 kg
  
- What is the weight-for-height z-score?

# Normal Distribution of weight for girls with height 85.0 cm

Ht (cm)	Median wt (kg) <i>Moderate</i>	<i>Mild</i> < 90% or < -1 ZS	< 80% or < -2 ZS	<70% or < -3 ZS
84.0	11.4	10.5	9.6	8.7
85.0	11.8	10.8	9.7	8.6
86.0	12.0	11.0	9.9	8.8
87.0	12.3	11.2	10.1	9.0

*Severe* (circled in blue) points to the 85.0 cm row.   
*9.0 kg* (circled in blue) is highlighted in the 85.0 cm row under the < 80% column.   
*9.0 kg* (circled in red) is highlighted in the 87.0 cm row under the Median wt column.   
 A red diagonal line runs from the top-right to the bottom-left.   
 Vertical dashed lines are present at 85.0 cm and 87.0 cm.



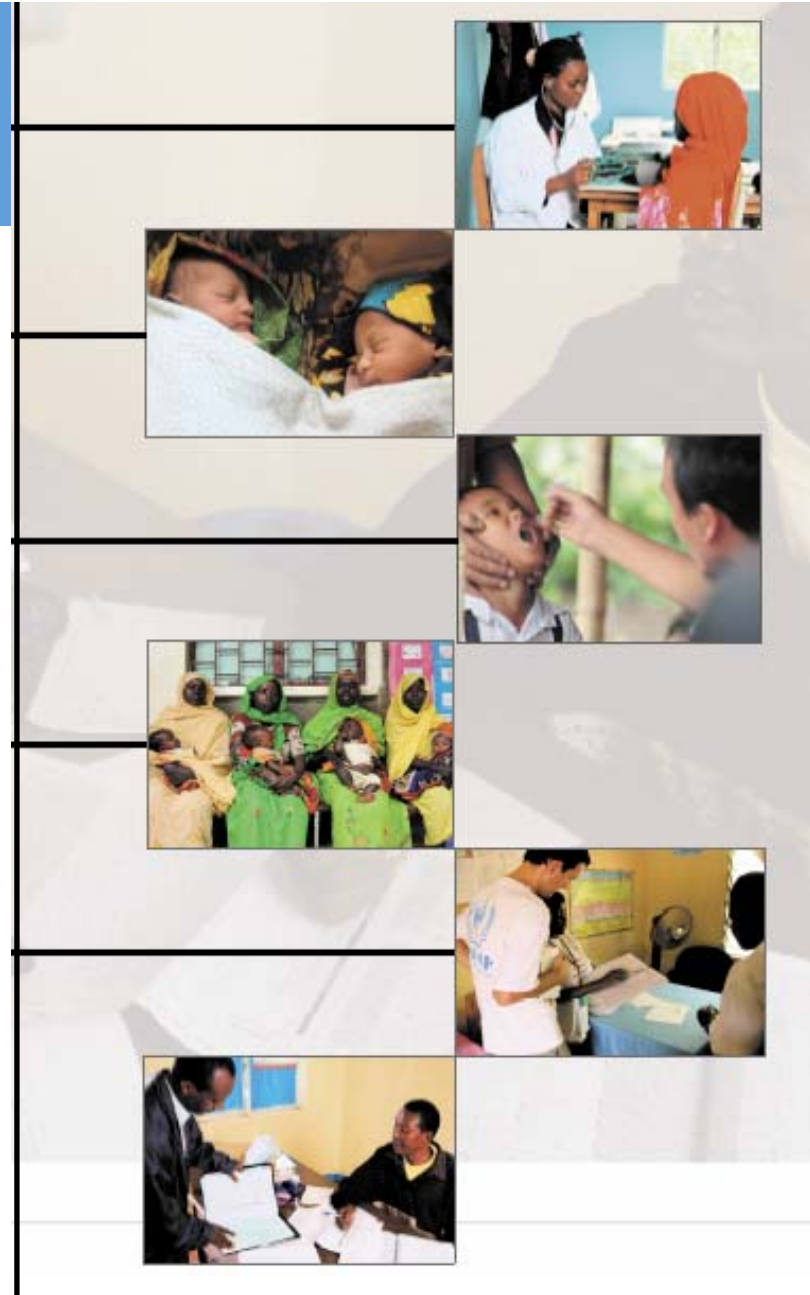


# Exercise Work

## Health Information System (HIS)

### Module 8: Nutrition Supplementary Feeding Programme

#### Question 1



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# Moderate Malnutrition

- Use NCHS/WHO Reference values for WFH
- Weight measurements each week of admission
- Length of stay calculations
  - **Inclusive of date of admission / date of discharge**
- Reason for exit
  - **Discharge cured**
  - **Death**
  - **Default**
  - **Referral**
  - **Non-cured**



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# Moderate Malnutrition Register

Serial No.	SFP No.	Name	Age	Sex (M / F)	Status (Ref / Nat)	Address	Date of admission	Re-adm. (Y / N)	TFP Referral (Y / N)	Wk 1			Wk 2		Wk 3	
										Height	Weight	WFH	Weight	WFH	Weight	WFH

Wk 4		Wk 5		Wk 6		Wk 7		Wk 8		Wk 9		Wk 10		Wk 11		Wk 12		Date of exit	Length of stay (weeks)	Reason for exit *	Notes
Weight	WFH	Height	Weight	WFH	Weight	WFH	Weight	WFH	Weight	WFH	Height	Weight	WFH	Weight	WFH	Weight	WFH				



# Pregnant and Lactating

- Time bound admission / discharge criteria
- To be registered according to gestational age / weeks post-delivery



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# Pregnant Register

Serial No.	ANC No.	Name	Age	Status (Ref / Nat)	Address	Date of admission	Re-adm. (Y / N)	2nd Trimester (Enter date of attendance)															
								Wk 13	Wk 14	Wk 15	Wk 16	Wk 17	Wk 18	Wk 19	Wk 20	Wk 21	Wk 22	Wk 23	Wk 24				

3rd Trimester (Enter date of attendance)														Date of delivery	Date of exit	Reason for exit							
Wk 25	Wk 26	Wk 27	Wk 28	Wk 29	Wk 30	Wk 31	Wk 32	Wk 33	Wk 34	Wk 35	Wk 36	Wk 37	Wk 38				Wk 39	Wk 40	Wk 41	Wk 42			

- 1. Discharge
- 2. Death
- 3. Default
- 4. Referral

# Lactating Register

Serial No.	ANC No.	Name	Age	Status (Ref / Nat)	Address	Date of delivery	Date of admission	Re-adm. (Y / N)	Post-delivery (Enter date of attendance)												
									Wk +1	Wk +2	Wk +3	Wk +4	Wk +5	Wk +6	Wk +7	Wk +8	Wk +9	Wk +10			

Post-delivery (Enter date of attendance)														Date of exit	Reason for exit					
Wk +11	Wk +12	Wk +13	Wk +14	Wk +15	Wk +16	Wk +17	Wk +18	Wk +19	Wk +20	Wk +21	Wk +22	Wk +23	Wk +24			Wk +25	Wk +26	Wk +27	Wk +28	Wk +29

1. Discharge

2. Death

3. Default

4. Referral



# Medical Cases

- Clearly defined eligibility criteria are important
- Reason for admission should be clearly specified; according to objective criteria defined in Nutrition Protocol
- Date of attendance and/or other data relevant to reason for admission recorded
- Protection of confidentiality of HIV/AIDS admissions



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

- Retrieve data from Registers
- Enter into Weekly Nutrition Report for EACH feeding centre
- Reporting of Sum Length of Stay



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Health Information System (HIS)  
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# Health Information System

Weekly Reporting Form

Report sum Length of Stay at the end of each month

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

## 8.0 Nutrition

### 8.1 Supportive

Enter refugee data ONLY

Moderate malnutrition      Sum no. of weeks stay for discharged children (< 5)

SFP Total

Number at risk (A)	Other																				
Number of new admissions	1. Moderate malnutrition																				
	2.																				
	3.																				
	4.																				

Serial No.	SFP No.	Name	Age	Sex (M / F)	Status (Ref / Nat)	Address	Date of admission	Re-adm. (Y / N)	TFP Referral (Y / N)	Wk 1		Wk 2		Wk 3	
										Height	Weight	WFH	Weight	WFH	Weight

Length of Stay is in weeks

Wk 4		Wk 5		Wk 6		Wk 7		Wk 8		Wk 9		Wk 10		Wk 11		Wk 12		Date of exit	Length of stay (weeks)	Reason for exit *	Notes
Weight	WFH	Height	Weight	WFH	Weight	WFH	Height	Weight	WFH	Weight	WFH	Weight	WFH	Weight	WFH	Weight	WFH				

Only reported for **refugee** children **under 5** who are **discharged (recovered)**

## >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
  - **Performance Indicators**
  - **Length of Stay**
  - **Program Coverage**
  - **Access and Utilisation**



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Health Information System  
 Weekly Reporting Form  
 8.0 Nutrition

8.1 Supplementary Feeding Program

	Refugee						National						SFP Total
	<5	≥5	Total	Preg.	Lact.	Other	<5	≥5	Total	Preg.	Lact.	Other	
Number at beginning of month (A)													
Number of new admissions													
1. WPH <80% or <2 Z2													
2. Other													
3. TFP referral													
4. Other													
Number of re-admissions													
5. WPH <80% or <2 Z2													
6. Other													
Total Admissions (B)													
Number of exits													
1. discharge													
2. death													
3. default													
4. referral													
5. discharge													
6. death													
7. default													
8. referral													
Total Exits (C)													
Number of days of stay (D)													
1. WPH <80% or <2 Z2													
2. Other													

Health Information System  
 Weekly Reporting Form  
 8.0 Nutrition

8.1 Supplementary Feeding Program

	Refugee						National						SFP Total
	<5	≥5	Total	Preg.	Lact.	Other	<5	≥5	Total	Preg.	Lact.	Other	
Number at beginning of month (A)													
Number of new admissions													
1. WPH <80% or <2 Z2													
2. Other													
3. TFP referral													
4. Other													
Number of re-admissions													
5. WPH <80% or <2 Z2													
6. Other													
Total Admissions (B)													
Number of exits													
1. discharge													
2. death													
3. default													
4. referral													
5. discharge													
6. death													
7. default													
8. referral													
Total Exits (C)													
Number of days of stay (D)													
1. WPH <80% or <2 Z2													
2. Other													

Program (SFP)	Refugee			National			Total SFP
	<5	≥5	Total	<5	≥5	Total	

### Supplementary Feeding Program (SFP) Indicators

#### Moderate malnutrition

Sum no. of days stay for disch children (<5)	
b. Mean length of stay (< 5)	

Performance Indicators (< 5)	Ref	Nat
c. Recovery rate		
d. Death rate		
e. Default rate		
Referral rate		

#### Coverage

Moderate Acute Malnutrition Rate (%)	
Target Population for SFP (<5)	0
f. Coverage of SFP (< 5)	
g. Coverage of SFP (Preg. and Lact.)	

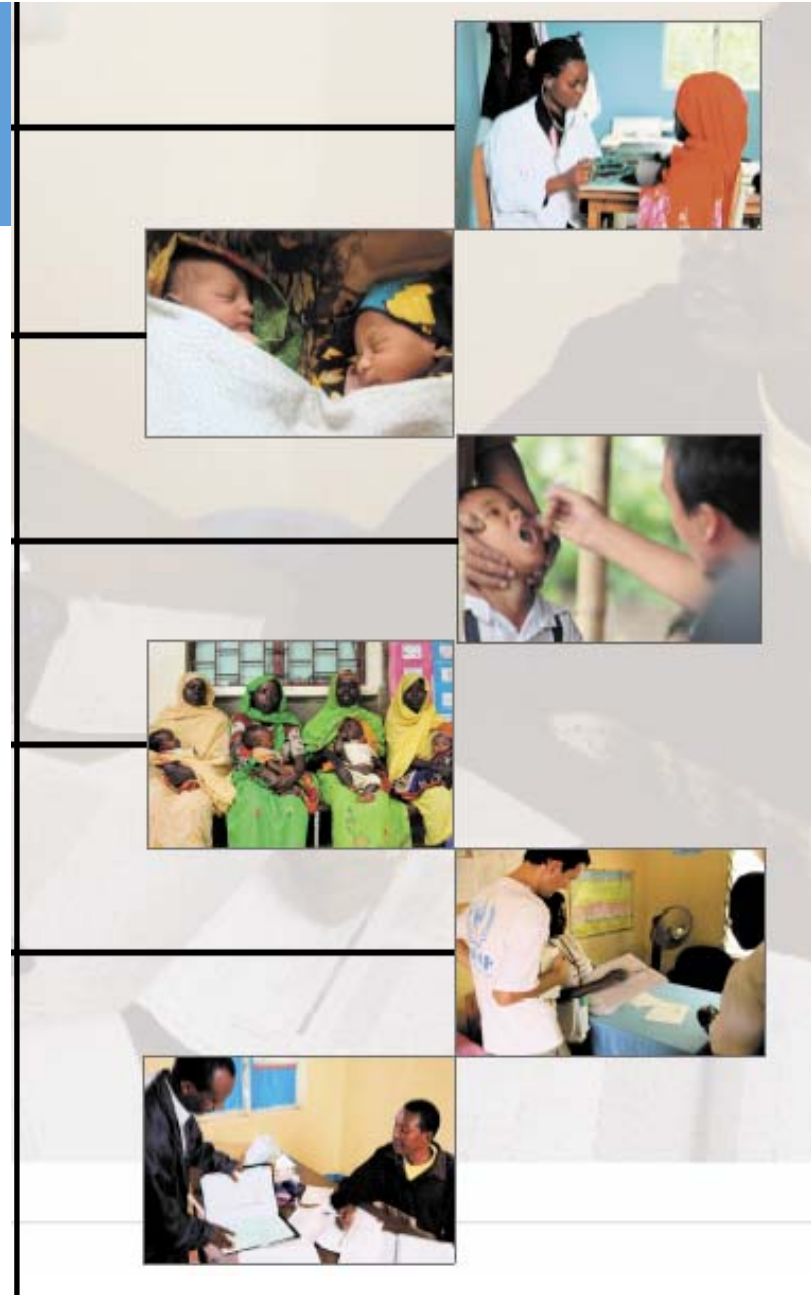
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. at end of reporting period	Moderate malnutrition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

# Exercise Work

## Health Information System (HIS)

### Module 8: Nutrition Supplementary Feeding Programme

Questions 2 to 4



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