

## > Exercise: Using Health Information

### Module 8: Part 1 – Supplementary Feeding Programme (SFP)

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#### Q1

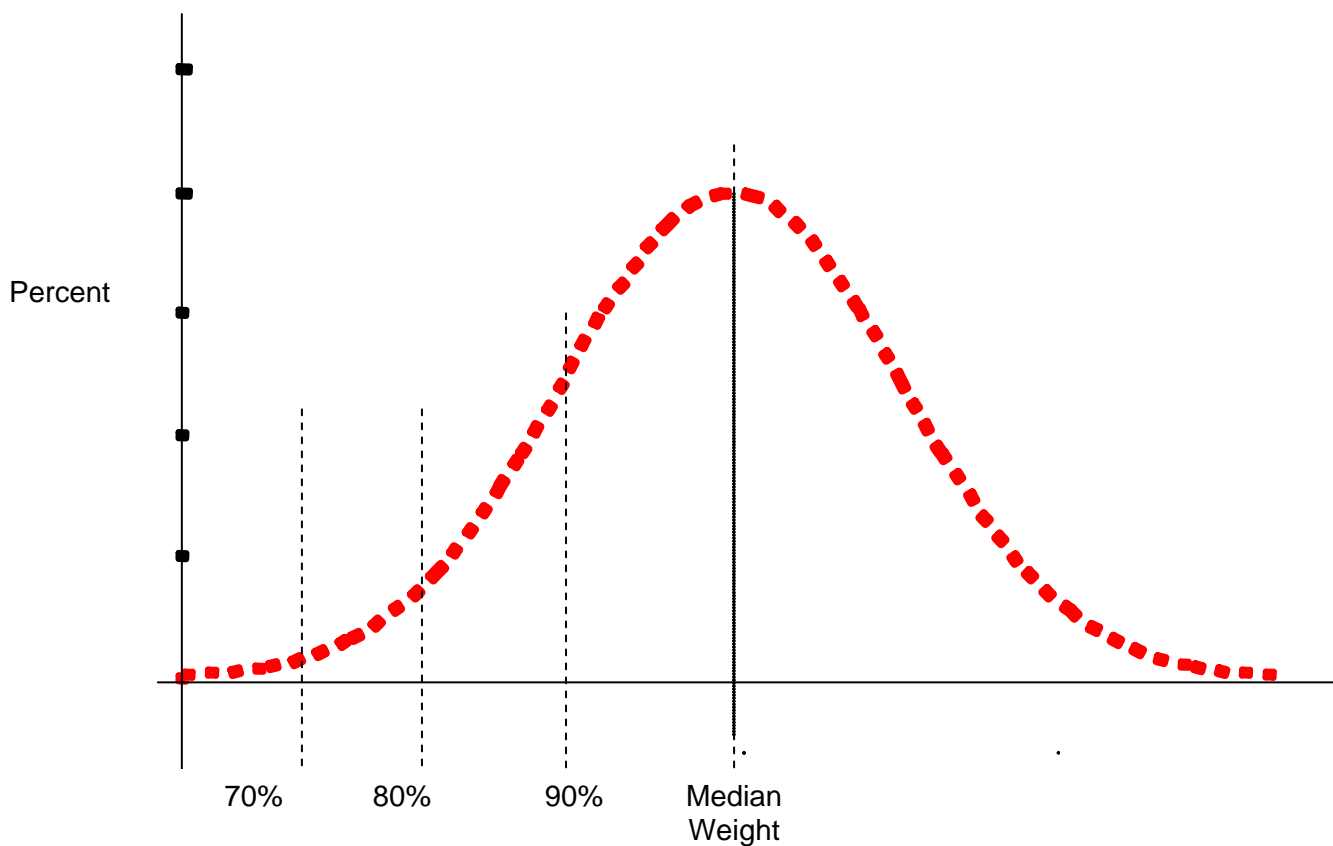
(a) Using the NCHS/WHO Reference Chart provided, calculate the weight-for-height (WFH) %median for the following children:

- i. Boy 1 (weight 8.3 kg; height 73.4 cm)
- ii. Boy 2 (weight 10.2 kg; height 79.8 cm)
- iii. Girl 1 (weight 4.5 kg; height 61.3 cm)
- iv. Girl 2 (weight 9.5 kg; height 91.7 cm)
- v. Boy 3 (weight 9.9 kg; height 85.5 cm)

(b) How would you interpret and use these results?

(c) Roughly plot where they would lie in the normal distribution curve below.

#### Normal Distribution Curve



**Q2**

- (a) Table 2 gives information on the number of exits during the month. Using the information provided, calculate the following indicators for children under 5:
- Recovery rate
  - Death rate
  - Default rate
- (b) What is the definition of “Non-cured” in SFP? How should these children be managed in the SFP register?

**Table 2**

Supplementary Feeding Program		Refugee				Total
		< 5		≥ 5		
Number of exits	<i>Discharge</i>	21	7	0	0	28
	<i>Death</i>	3	0	0	0	3
	<i>Default</i>	6	0	0	0	6
	<i>Referral</i>	0	0	0	0	0
	<i>Non-cured</i>	0	0	0	0	0
<b>Total exits</b>		30	7	0	0	37

**Q3**

The results of the most recent nutrition survey show a moderate acute malnutrition rate of 5%. The total camp population is 30, 319; under 5 population is 6, 064.

- (a) Using the information given in Table 3, answer the following:
- What is the SFP coverage among moderately malnourished children <5?
  - What is the SFP coverage among Pregnant and Lactating mothers?
  - What could be some of the explanations for these results?

**Table 3**

SFP	Refugee				Total	Refugee		Total
	< 5		≥ 5			Preg	Lact	
	M	F	M	F				
Total end of month	28	33	15	113	189	767	354	1121

## > Exercise: Using Health Information

### Module 8: Part 2 – Therapeutic Feeding Programme (TFP)

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#### Q1

You are working in a Therapeutic Feeding Centre, monitoring the progress of an individual child who was recently admitted under your care. Look at the record for Child A in the sample TFP register provided.

- (a) Complete the information at the top of the Patient Record Form
- (b) What the Target Weight?
- (c) Plot a graph of his weight gain whilst he was admitted (assume that his height remained at 72 cm, and temperature at 37.0°C throughout admission).
- (d) Calculate the length of stay and average weight gain.

#### Q2

You now begin to prepare the Nutrition Report at the end of the month. Look at the records of the other children in the sample TFP register. This is the complete record of admissions and discharges for January 2008.

- (a) Calculate length of stay and average weight gain for each child.
- (b) Calculate sum length of stay and sum average weight gain for discharged children under 5.
- (c) Calculate the indicator for average weight gain for January 2008 in this centre. How would you interpret this result?

# Health Information System

## FOR TRAINING ONLY - NOT FOR USE IN FEEDING CENTRES

NCHS / WHO normalized reference values for weight for height by sex

Weight-for-length (49-84 cm) and weight-for-height (85-110 cm)

Boys' weight (kg)					Length (cm)	Girls' weight (kg)				
< 60%	< 70%	< 80%	< 90%	Median		Median	< 90%	< 80%	< 70%	< 60%
1.8	2.1	2.5	2.8	3.1	49	3.3	2.9	2.6	2.2	1.8
1.8	2.2	2.5	2.9	3.3	50	3.4	3	2.6	2.3	1.9
1.8	2.2	2.6	3.1	3.5	51	3.5	3.1	2.7	2.3	1.9
1.9	2.3	2.8	3.2	3.7	52	3.7	3.3	2.8	2.4	2
1.9	2.4	2.9	3.4	3.9	53	3.9	3.4	3	2.5	2.1
2	2.6	3.1	3.6	4.1	54	4.1	3.6	3.1	2.7	2.2
2.2	2.7	3.3	3.8	4.3	55	4.3	3.8	3.3	2.8	2.3
2.3	2.9	3.5	4	4.6	56	4.5	4	3.5	3	2.4
2.5	3.1	3.7	4.3	4.8	57	4.8	4.2	3.7	3.1	2.6
2.7	3.3	3.9	4.5	5.1	58	5	4.4	3.9	3.3	2.7
2.9	3.5	4.1	4.8	5.4	59	5.3	4.7	4.1	3.5	2.9
3.1	3.7	4.4	5	5.7	60	5.5	4.9	4.3	3.7	3.1
3.3	4	4.6	5.3	5.9	61	5.8	5.2	4.6	3.9	3.3
3.5	4.2	4.9	5.6	6.2	62	6.1	5.4	4.8	4.1	3.5
3.8	4.5	5.2	5.8	6.5	63	6.4	5.7	5	4.4	3.7
4	4.7	5.4	6.1	6.8	64	6.7	6	5.3	4.6	3.9
4.3	5	5.7	6.4	7.1	65	7	6.3	5.5	4.8	4.1
4.5	5.3	6	6.7	7.4	66	7.3	6.5	5.8	5.1	4.3
4.8	5.5	6.2	7	7.7	67	7.5	6.8	6	5.3	4.5
5.1	5.8	6.5	7.3	8	68	7.8	7.1	6.3	5.5	4.8
5.3	6	6.8	7.5	8.3	69	8.1	7.3	6.5	5.8	5
5.5	6.3	7	7.8	8.5	70	8.4	7.6	6.8	6	5.2
5.8	6.5	7.3	8.1	8.8	71	8.6	7.8	7	6.2	5.4
6	6.8	7.5	8.3	9.1	72	8.9	8.1	7.2	6.4	5.6
6.2	7	7.8	8.6	9.3	73	9.1	8.3	7.5	6.6	5.8
6.4	7.2	8	8.8	9.6	74	9.4	8.5	7.7	6.8	6
6.6	7.4	8.2	9	9.8	75	9.6	8.7	7.9	7	6.2
6.8	7.6	8.4	9.2	10	76	9.8	8.9	8.1	7.2	6.4
7	7.8	8.6	9.4	10.3	77	10	9.1	8.3	7.4	6.6
7.1	8	8.8	9.7	10.5	78	10.2	9.3	8.5	7.6	6.7
7.3	8.2	9	9.9	10.7	79	10.4	9.5	8.7	7.8	6.9
7.5	8.3	9.2	10.1	10.9	80	10.6	9.7	8.8	8	7.1
7.6	8.5	9.4	10.2	11.1	81	10.8	9.9	9	8.1	7.2
7.8	8.7	9.6	10.4	11.3	82	11	10.1	9.2	8.3	7.4

Boys' weight (kg)					Length (cm)	Girls' weight (kg)				
< 60%	< 70%	< 80%	< 90%	Median		Median	< 90%	< 80%	< 70%	< 60%
7.9	8.8	9.7	10.6	11.5	83	11.2	10.3	9.4	8.5	7.6
8.1	9	9.9	10.8	11.7	84	11.4	10.5	9.6	8.7	7.7
7.8	8.9	9.9	11	12.1	85	11.8	10.8	9.7	8.6	7.6
7.9	9	10.1	11.2	12.3	86	12	11	9.9	8.8	7.7
8.1	9.2	10.3	11.5	12.6	87	12.3	11.2	10.1	9	7.9
8.3	9.4	10.5	11.7	12.8	88	12.5	11.4	10.3	9.2	8.1
8.4	9.6	10.7	11.9	13	89	12.7	11.6	10.5	9.3	8.2
8.6	9.8	10.9	12.1	13.3	90	12.9	11.8	10.7	9.5	8.4
8.8	9.9	11.1	12.3	13.5	91	13.2	12	10.8	9.7	8.5
8.9	10.1	11.3	12.5	13.7	92	13.4	12.2	11	9.9	8.7
9.1	10.3	11.5	12.8	14	93	13.6	12.4	11.2	10	8.8
9.2	10.5	11.7	13	14.2	94	13.9	12.6	11.4	10.2	9
9.4	10.7	11.9	13.2	14.5	95	14.1	12.9	11.6	10.4	9.1
9.6	10.9	12.1	13.4	14.7	96	14.3	13.1	11.8	10.6	9.3
9.7	11	12.4	13.7	15	97	14.6	13.3	12	10.7	9.5
9.9	11.2	12.6	13.9	15.2	98	14.9	13.5	12.2	10.9	9.6
10.1	11.4	12.8	14.1	15.5	99	15.1	13.8	12.4	11.1	9.8
10.3	11.6	13	14.4	15.7	100	15.4	14	12.7	11.3	9.9
10.4	11.8	13.2	14.6	16	101	15.6	14.3	12.9	11.5	10.1
10.6	12	13.4	14.9	16.3	102	15.9	14.5	13.1	11.7	10.3
10.8	12.2	13.7	15.1	16.6	103	16.2	14.7	13.3	11.9	10.5
11	12.4	13.9	15.4	16.9	104	16.5	15	13.5	12.1	10.6
11.2	12.7	14.2	15.6	17.1	105	16.7	15.3	13.8	12.3	10.8
11.4	12.9	14.4	15.9	17.4	106	17	15.5	14	12.5	11
11.6	13.1	14.7	16.2	17.7	107	17.3	15.8	14.3	12.7	11.2
11.8	13.4	14.9	16.5	18	108	17.6	16.1	14.5	13	11.4
12	13.6	15.2	16.8	18.3	109	17.9	16.4	14.8	13.2	11.6
12.2	13.8	15.4	17.1	18.7	110	18.2	16.6	15	13.4	11.9

## > Exercise: Using Health Information

### Module 8: Part 2 - Therapeutic Feeding Program (TFP)

Name: _____	Serial No.: _____	Name of mother: _____
Age: _____	Reg. No.: _____	Address: _____
Sex (M / F): _____	Date of admission: ____ / ____ / ____	Status (Ref / Nat): _____

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Date																																	
Weight (kg)																																	
Height (cm)																																	
Temp (°C)																																	

Target Weight (kg):  
(use NCHS / WHO reference)

Oedema (+ / ++ / +++ / ++++)																																
Weight (kg)																																

Date of exit: ____ / ____ / ____	Length of stay (days): _____
Reason for exit *: _____	Average weight gain (g / kg / day) **: _____

\* Reason for exit: 1. Discharge cured to SFP 2. Death 3. Default 4. Referral

\*\* See guide on reverse

## Clinical Notes

### Note:

To calculate average weight gain (g / kg / day):

1. Calculate the maximum weight gain during admission [ in grams (g) ]  
(= weight on exit - lowest weight recorded during recovery)
2. Divide by lowest weight recorded during recovery [ in kilograms (kg) ]
3. Divide by total number of days between exit and lowest weight recorded during recovery  
(this is NOT always the same as length of stay).
4. Enter figure on reverse and in Severe Malnutrition Register. At end of the week, calculate the sum average weight gain for all refugee discharges under 5 and enter into weekly report.

## > Exercise: Using Health Information

### Module 8: Part 2 - Therapeutic Feeding Programme (TFP)

Serial No.	TFP No.	Name	Age	Sex (M / F)	Status (Ref / Nat)	Address	Date of admission	Re-adm. (Y / N)	Day 1				Target Weight (kg)	Weight (kg)						
									Height (cm)	Weight (kg)	Oedema (Y / N)	WFH		Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
001	357	Child A	1	M	Ref	A12.34	3.1.2008	N	72.0	6.5	N			6.5	6.4	6.5	6.5	6.6	6.8	
002	243	Child B	2	F	Ref	A15.56	3.1.2008	N	76.2	7.2	N	<70%	8.9	7.6	8.1	8.5	8.7	8.8	8.8	
003	056	Child C	3.5	M	Ref	F11.03	4.1.2008	N	86.4	8.9	N	<70%	10.1	8.9	8.9	9.0	9.1	9.1	9.2	
004	103	Child D	4	M	Ref	C01.79	7.1.2008	N	99.0	11.3	N	<70%	12.8	11.3	11.4	11.5	11.7	11.8	11.9	
005	482	Child E	4	F	Ref	A34.09	10.1.2008	N	61.9	4.0	N	<70%	4.8	4.1	4.1	4.3	4.3	4.3	4.3	
006	360	Child F	4.5	M	Ref	B98.43	11.1.2008	N	105.1	12.5	N	<70%	14.2	12.5	12.6	12.7	12.7	12.8	12.9	



# Sample Severe Malnutrition Register

Weight (kg)																Date of exit	Length of stay (days)	Average weight gain (g / kg / day)	Reason for exit	Notes									
Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23						Day 24	Day 25	Day 26	Day 27	Day 28	Day 29	Day 30	Day 31	
6.9	7.0	7.0	7.2	7.2	7.4	7.5	7.5																		17/1/2008			Discharge	
																									9/1/2008			Death	
9.3	9.3	9.4	9.4	9.5	9.5	9.8	10.1	10.1																	19/1/2008			Discharge	
12.0	12.0	12.5	12.6	12.7	12.8	12.8																			20/1/2008			Discharge	
4.4	4.4	4.4	4.4	4.5	4.6	4.6	4.5	4.6	4.6	4.7	4.8	4.8													29/1/2008			Discharge	
12.9	13.0	13.1	13.1	13.2	13.2	13.3	13.5	13.6	13.7	13.7	13.8	13.8	13.9	13.9	14.0	14.1	14.2	14.2							6/2/2008			Discharge	

\* Reason for exit: 1. Discharge cured to SFP 2. Death 3. Default 4. Referral