

Severity of Malnutrition: Stunting and Wasting			
Grade of Malnutrition	Weight for Age* (Wasting)	Height for Age† (Stunting)	Weight for Height‡
0, normal	>90	>95	>90
1, mild	75–90	90–95	81–90
2, moderate	60–74	85–89	70–80
3, severe	<60	<85	<70

Values represent PERCENTAGE OF MEDIAN FOR AGE.
***Data from Gomez F, Galvan RR, Frank S, et al: Mortality in second- and third-degree malnutrition. J Trop Pediatr 2:77, 1956.**
†Data from Waterlow JC: Evolution of kwashiorkor and marasmus. Lancet 2:712, 1974.
‡Data from Waterlow JC: Classification and definition of protein-calorie malnutrition. BMJ 3:566, 1972.

Formulas for Approximate Average Height and Weight of Normal Infants and Children		
Weight	Kilograms	
At birth	3.25	
3–12 mo	$\frac{\text{Age (mo)} + 9}{2}$	
1–6 yr	$\text{age (yr)} \times 2 + 8$	
7–12 yr	$\frac{\text{Age (yr)} \times 7 - 5}{2}$	
Height	Centimeters	
At birth	50	
At 1 yr	75	
2–12 yr	$\text{age (yr)} \times 6 + 77$	

CLASSIFICATION OF MALNUTRITION		
	Moderate malnutrition	Severe malnutrition (TYPE)
Symetrical edema	No.	Yes. ODEMATOUS MALNUTRITION
Weight for Height	Z score between (minus)-3 and (minus) -2 (70% to 79%)	Z score Less than (minus) -3 (less than 70%) SEVERE WASTING
Height for Age	Z score between (minus)-3 and (minus) -2 (85% to 89%)	Z score Less than (minus) -3 (less than 85%) SEVERE STUNTING

SOURCE: WHO (MANAGEMENT OF SEVERE MALNUTRIOTION: A MANUAL FOR PHYSICIANS AND OTHER SENIOR HEALTH WORKERS)