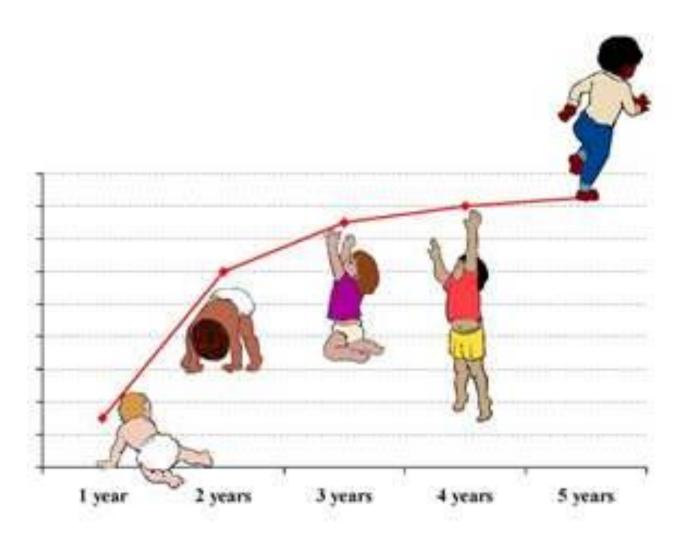
Nutrition Assessment

Virtual Clinical Session on 9/6/2020

Sixth Year Medical Students

Reference WHO booklets guideline

Dr . Sawsan Issa Habeeb



The child's age, sex, and measurements of weight and length or height will be used to calculate the following growth indicators, which will be described in the next slides :

length/height-for-age (stunting)

uweight-for-age (underwt)

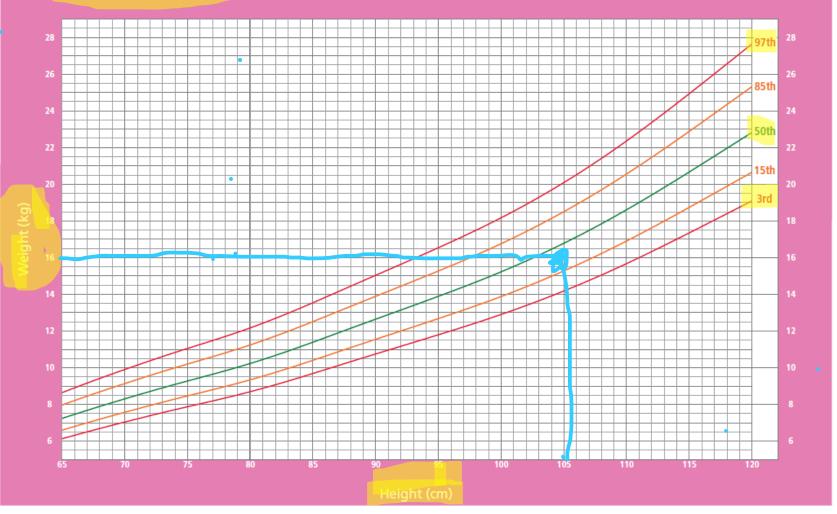
Dweight-for-length/height (wasting)

BMI (body mass index)-for-age (wasting)





2 to 5 years (percentiles)

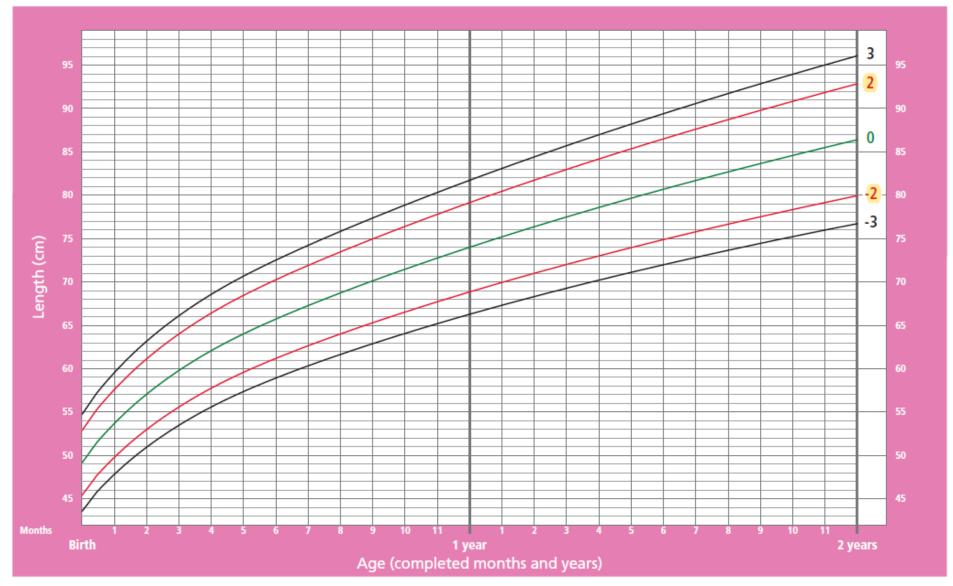


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Length-for-age GIRLS

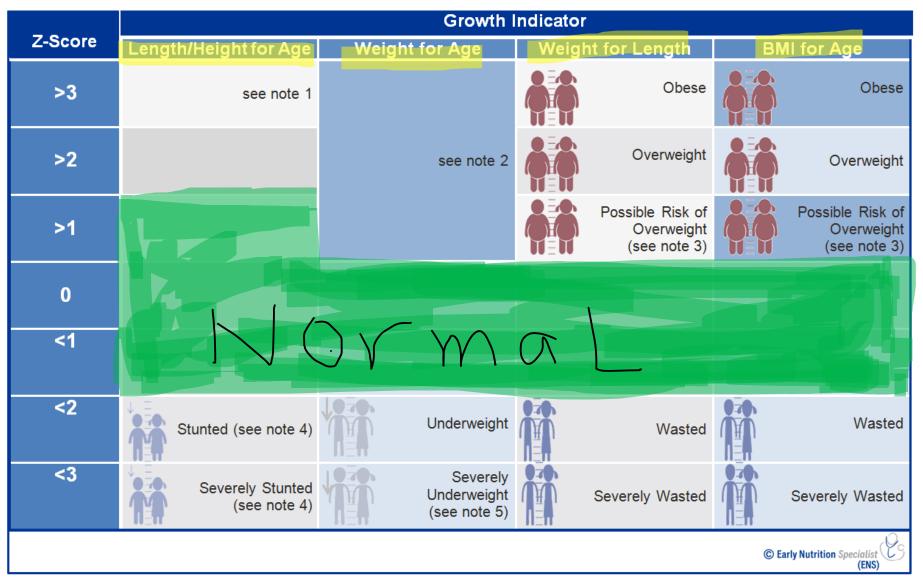
Birth to 2 years (z-scores)



WHO Child Growth Standards

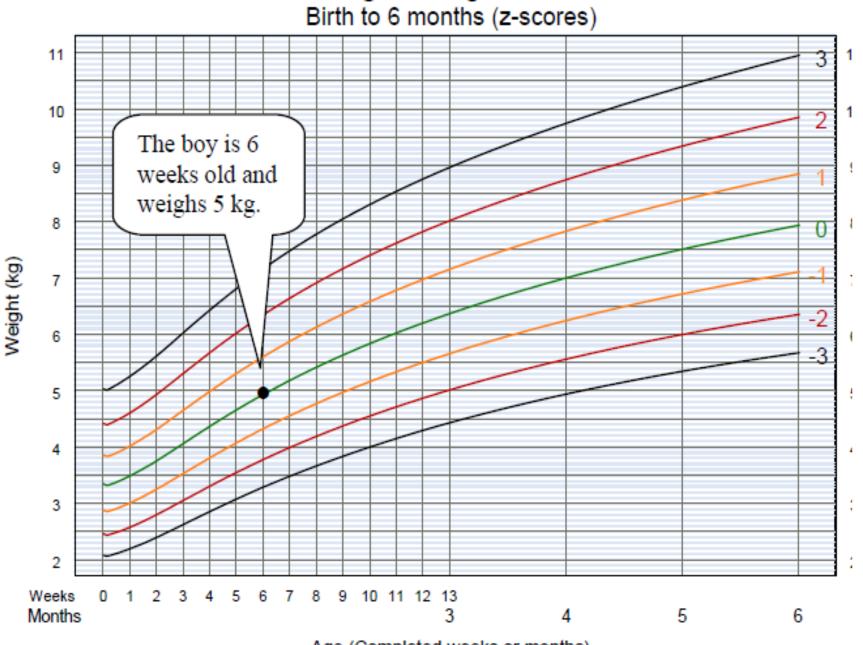


Growth indicators



Z-score	Growth indicators			
	Length/height- for-age	Weight-for- age	Weight-for- length/height	BMI-for-age
Above 3	See note 1	See note 2	Obese	Obese
Above 2			Overweight	Overweight
Above 1			Possible risk of overweight (See note 3)	Possible risk of overweight (See note 3)
0 (median)				
Below –1				
Below –2	Stunted (See note 4)	Underweight	Wasted	Wasted
Below –3	Severely stunted (See note 4)	Severely underweight (See note 5)	Severely wasted	Severely wasted

Interpreting plotted points for growth indicators



Weight-for-age BOYS

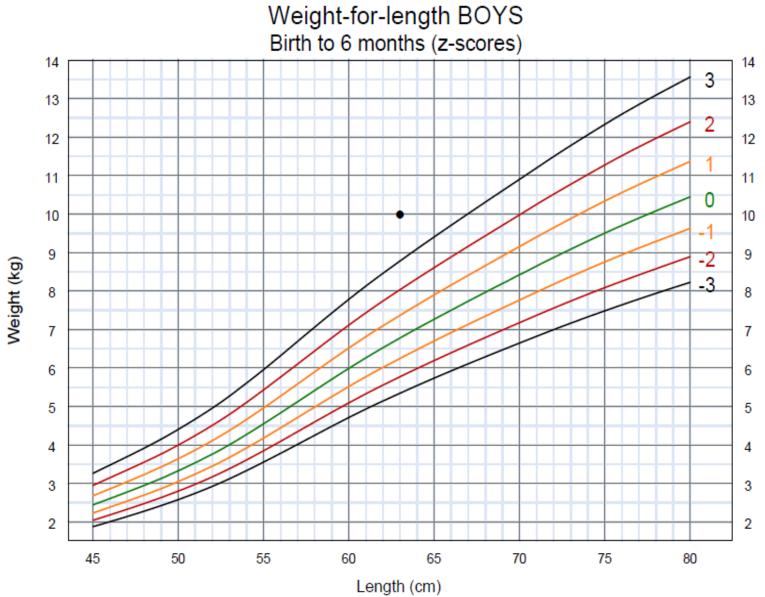
Age (Completed weeks or months)





normal



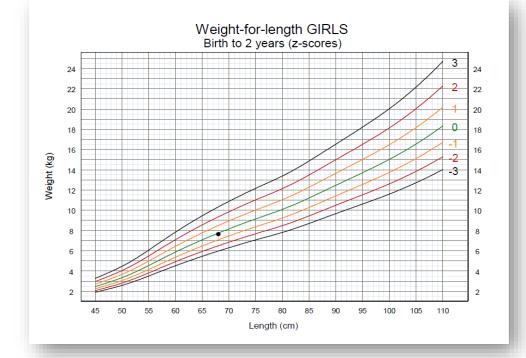


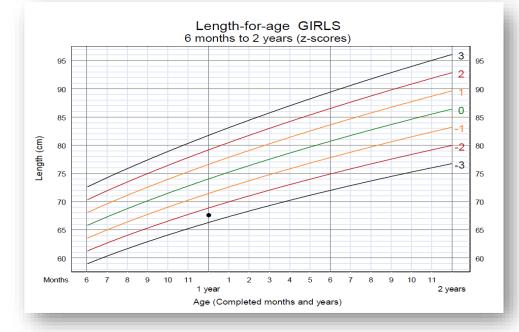


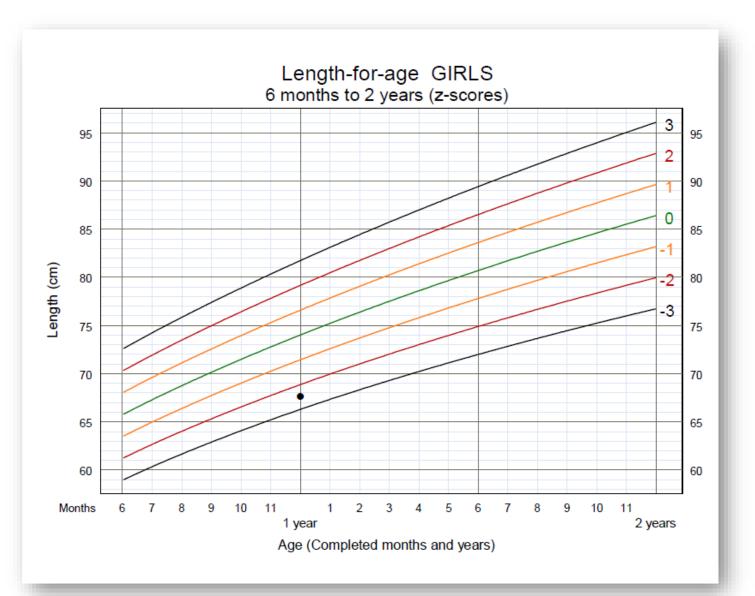


low WFA, normal WFL but low LFA shows stunting









Stunted



Interpret trends on growth charts

- "Normally" growing children follow trends that are, in general, parallel to the median and z-score lines.
- Most children will grow in a "track," that on or between zscore lines
- Roughly parallel to the median; the track may be below or above the median.

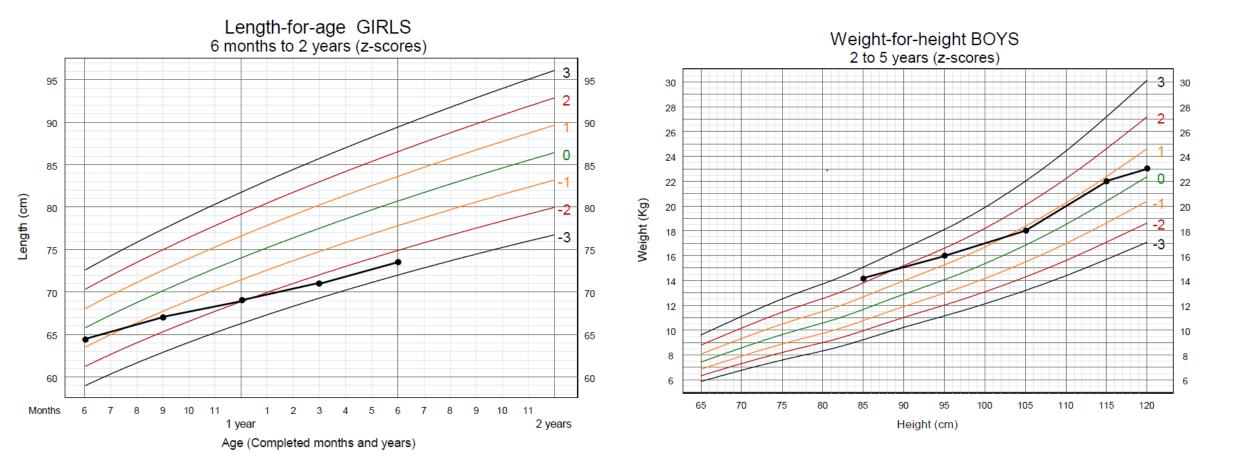


A problem when :

- A child's growth line crosses a z-score line.
- There is a sharp incline or decline in the child's growth line.
- The child's growth line remains flat (stagnant); i.e. there is no gain in weight or length/height.

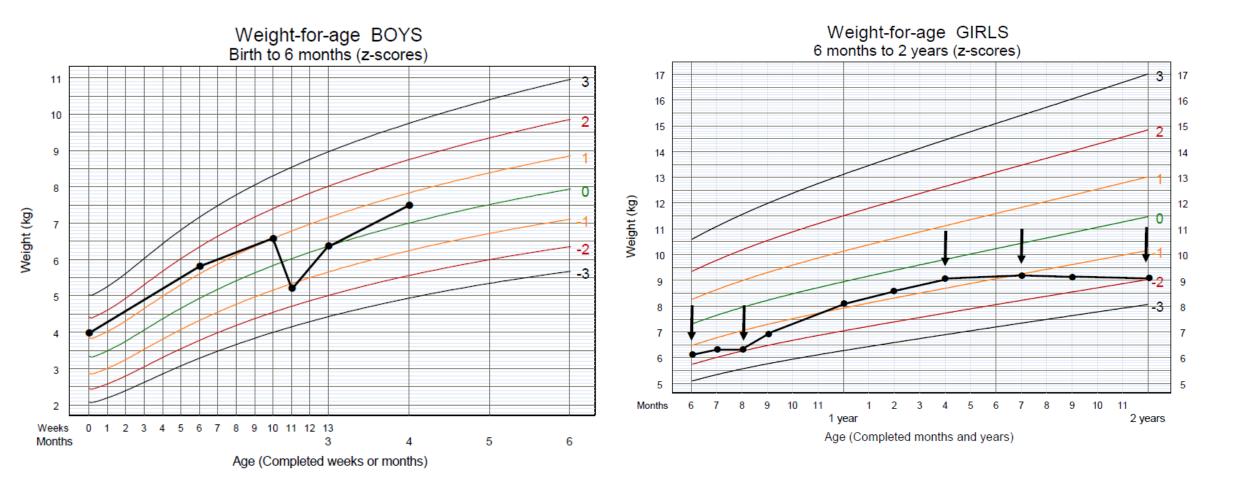


Crossing z-score lines



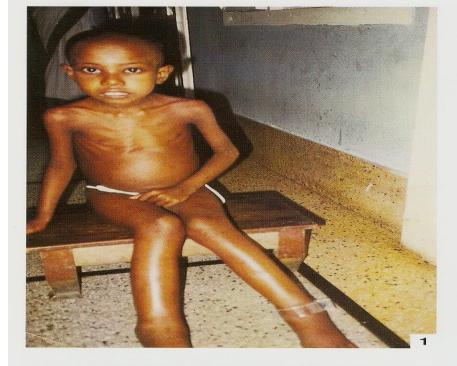
Sharp incline or decline in the growth line

Flat growth line (stagnation)



Recognize signs of severe malnutrition

Severe wasting Oedema Dermataosis Eye signs



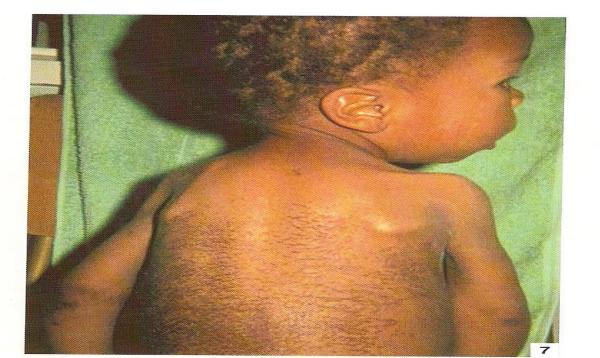


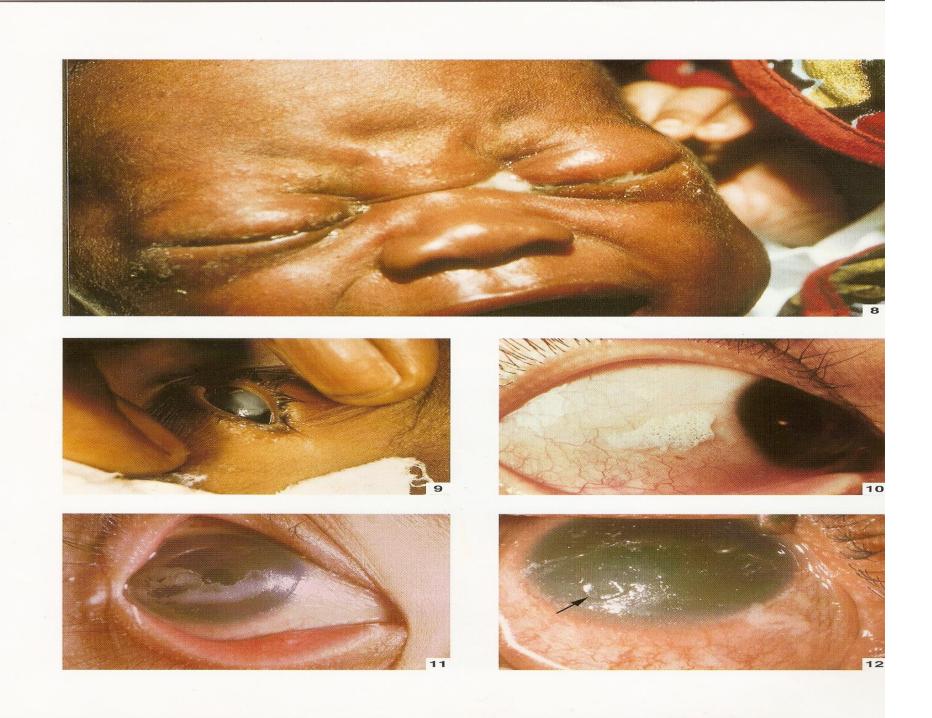












Examination

Recognize signs of malnutrition: remove the child's clothes.

Look at the front view and the back for:

- a. Wasting (child's ribs, skin of the upper arms and thighs is loss)
- **b.** Edema (+ mild , + + moderate and + + + severe)
- c. Dermatosis (+ mild , + + moderate and+ + + severe)
- d. Eye signs (Bitot's spots, Pus and inflammation, Corneal clouding and ulceration).
- e. Others
- Hair changes, ease of pluckability, sparse and depigmented
- Skin (pallor), mouth (angular stomatitis, cheilosis)