



## Growth

Individuals with CdLS have proportionate small stature. Specific growth charts (</xwiki/bin/view/CdLSTopics/GrowthCharts>) are available for height, weight and head circumference parameters of boys or girls with CdLS at different ages. Using these, the practitioner can follow growth as compared to other affected individuals rather than the unaffected population. If an individual deviates from the CdLS curve, then specific investigation for occult pathology may be warranted.

*The term "failure to thrive" is not appropriate, and may generate the use of unnecessary calorie supplementation, which results in no increased rate of growth and considerable parental anxiety.*

Pubertal growth spurts occur at comparable ages to unaffected individuals. Some individuals with CdLS have been found to have growth hormone deficiency, requiring exogenous growth hormone administration, however, without a documented deficiency, the use of growth hormone most likely does not increase final adult height.

## **Common Growth of Children with CdLS**

Children are often assessed by their weight and height on growth charts that show the average growth rate for typical children. Since children with CdLS are often compared to a typical child's growth rate, many are incorrectly diagnosed with "failure to thrive," a condition that focuses primarily on weight gain.

Often, parents also consider placing the child on a high-calorie formula or food supplement and/or increasing the number of feedings per day to spur growth. Presently, there is no clear-cut evidence that either have longterm benefits.

What medical professionals unfamiliar with CdLS do not recognize is that although children with CdLS gain weight slowly, their growth is usually in proportion to their height throughout their lives.

To better educate parents of children with CdLS and their health care providers, CdLS Foundation Medical Director Antonie D. Kline, M.D., and her colleagues developed gender-specific growth charts based on research and data collected over many years.

On the following pages you will find the male and female growth charts;

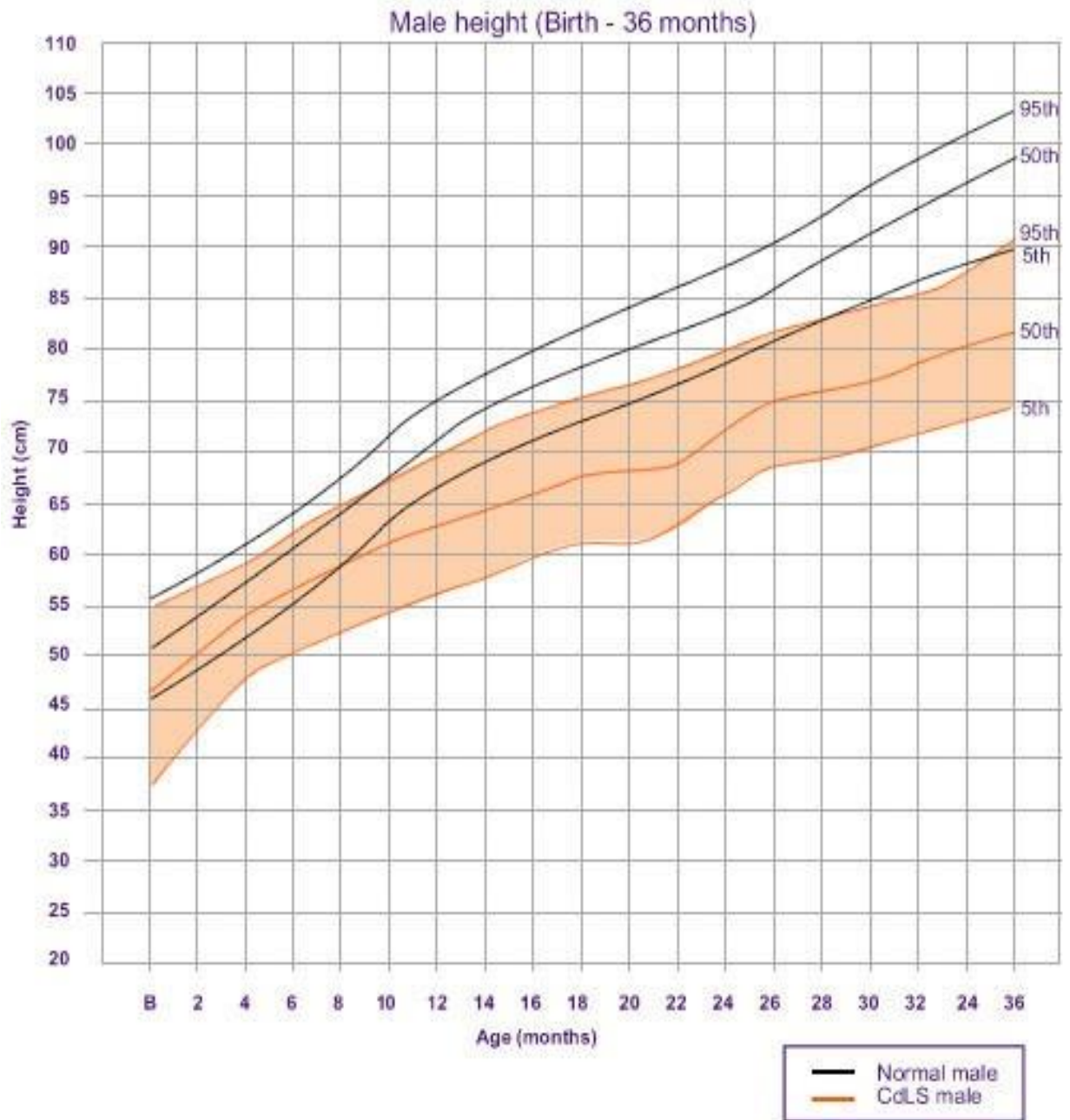
- Height
  - From birth to 36 months
  - From 36 months to adult
- Weight
  - From birth to 36 months
  - From 36 months to adult
- Head measurements
- Height
  - From birth to 36 months
  - From 36 months to adult
- Weight
  - From birth to 36 months
  - From 36 months to adult
- Head measurement

<https://www.cdlsworld.org/xwiki/bin/view/CdLSTopics/Growth>

# Males

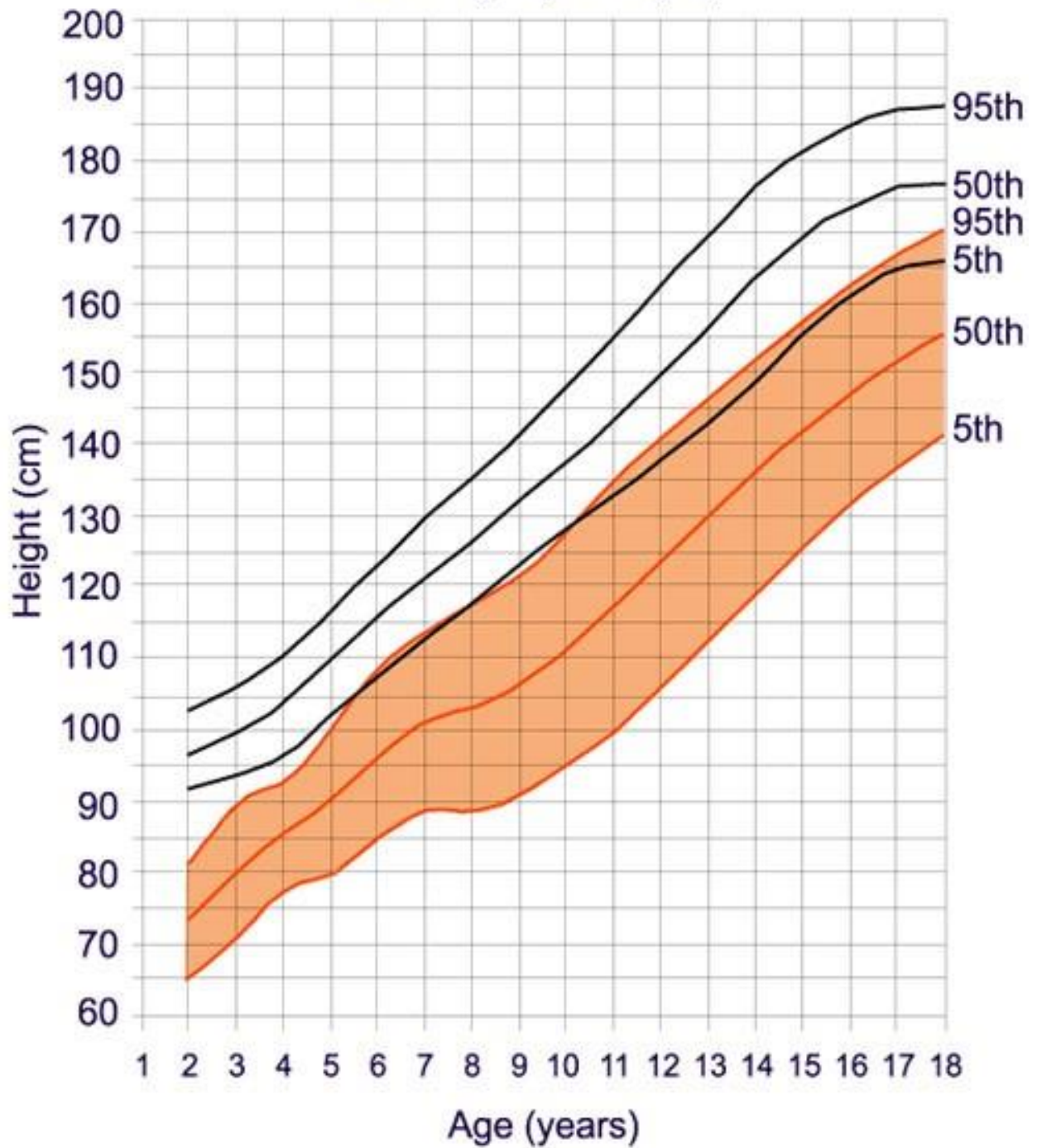
## Height

### From birth to 36 months



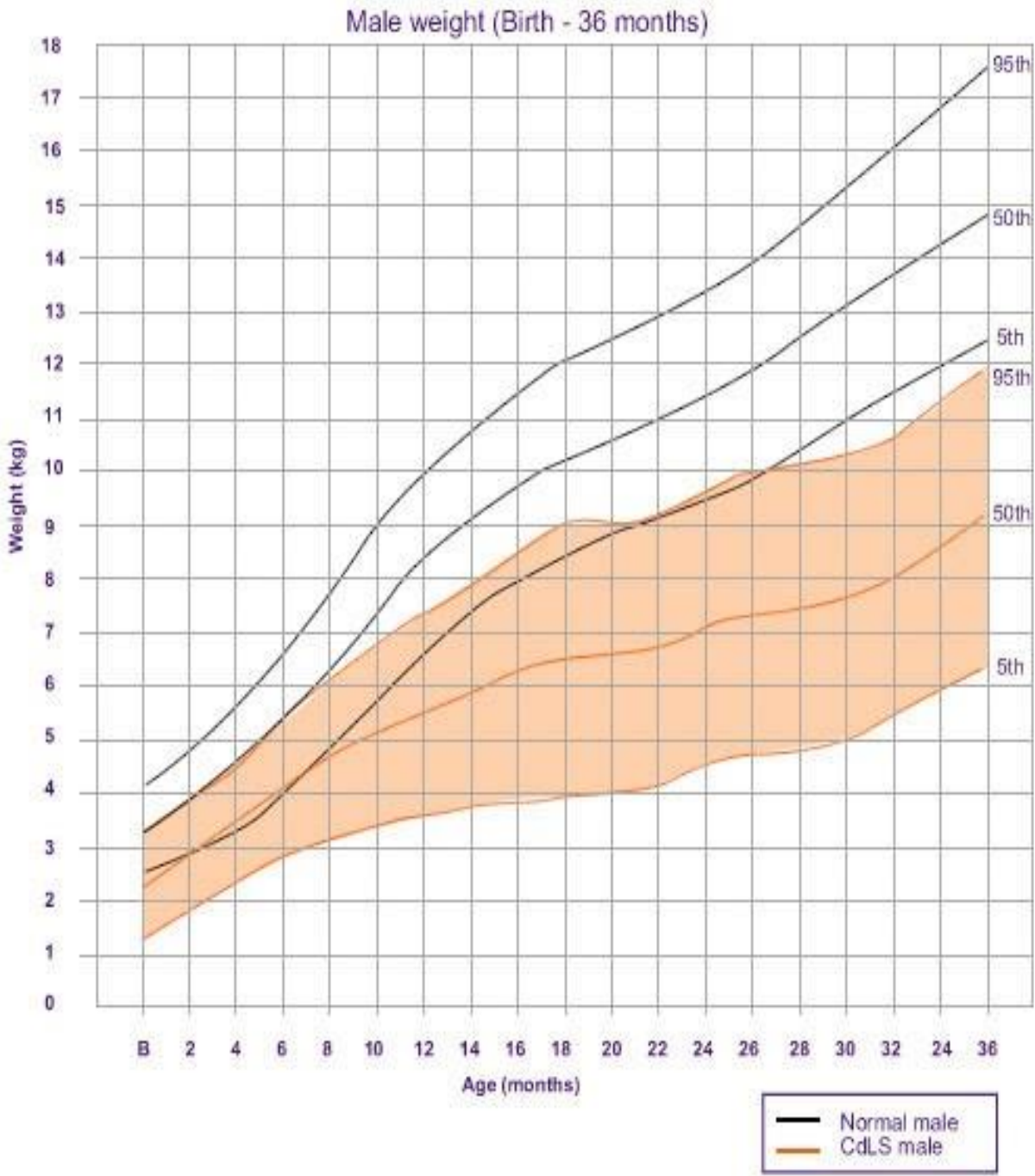
# From 36 months to adult

## Male Height (2 - 18 yrs)

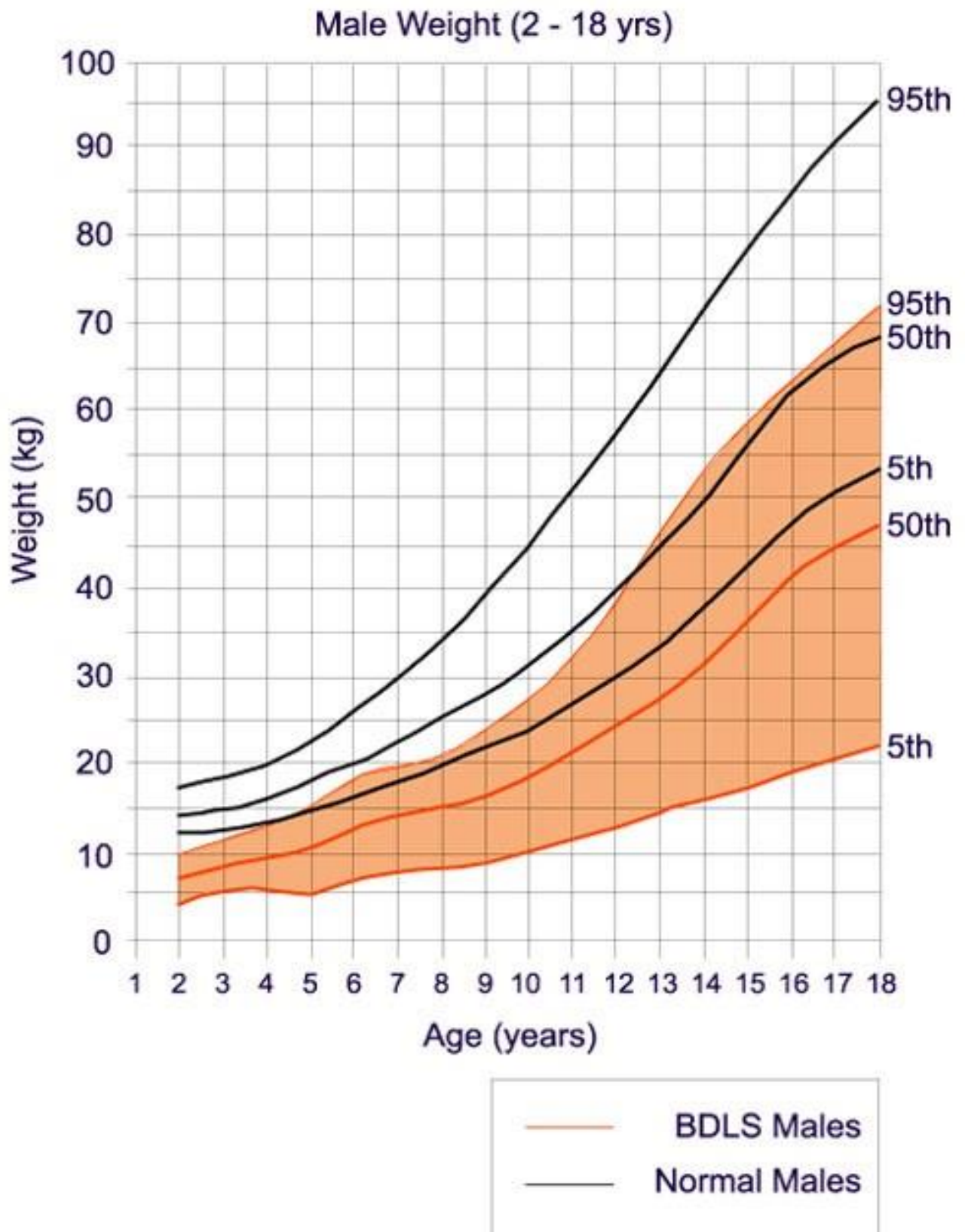


# Weight

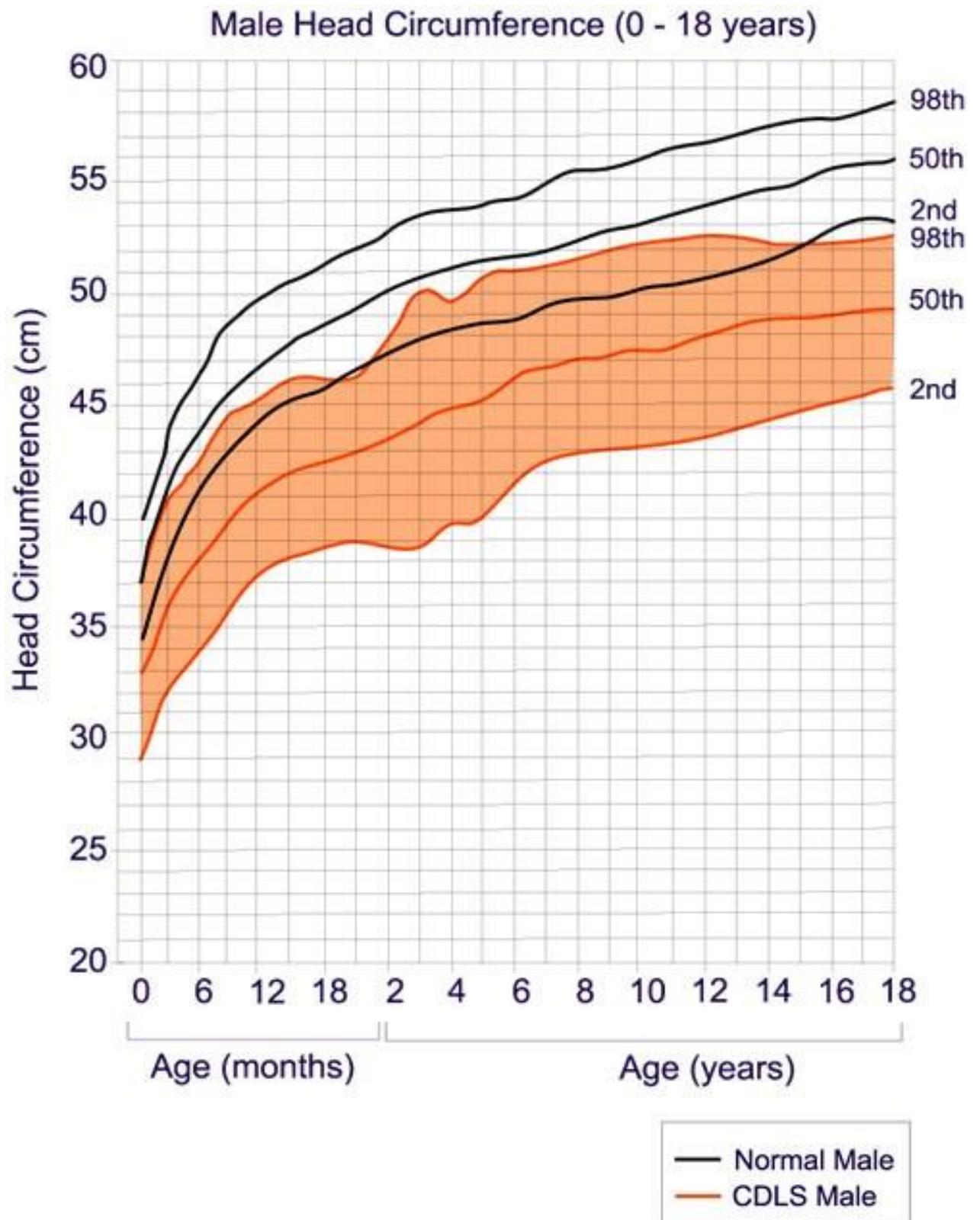
## From birth to 36 months



## From 36 months to adult



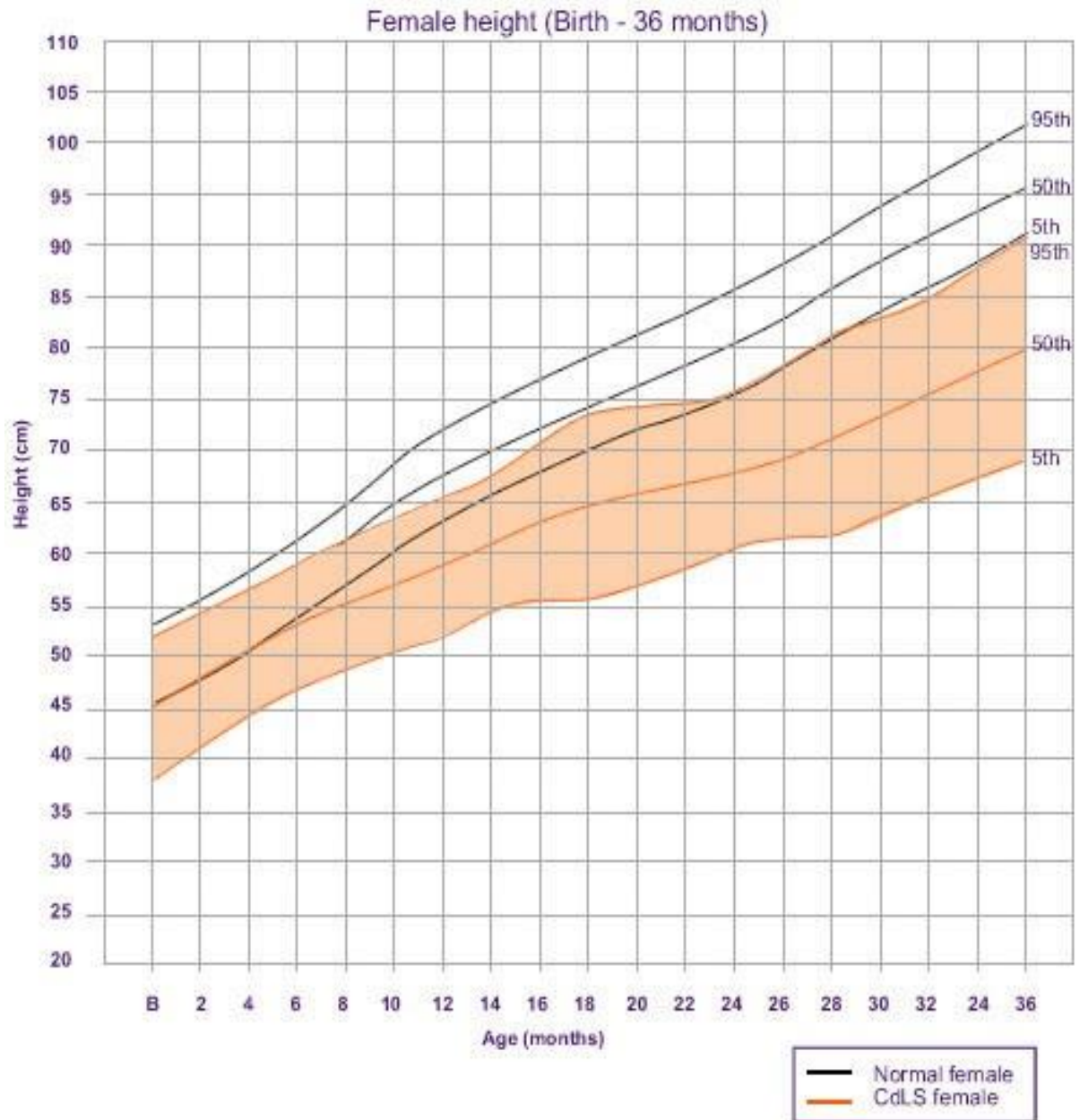
# Head measurements



# Female:

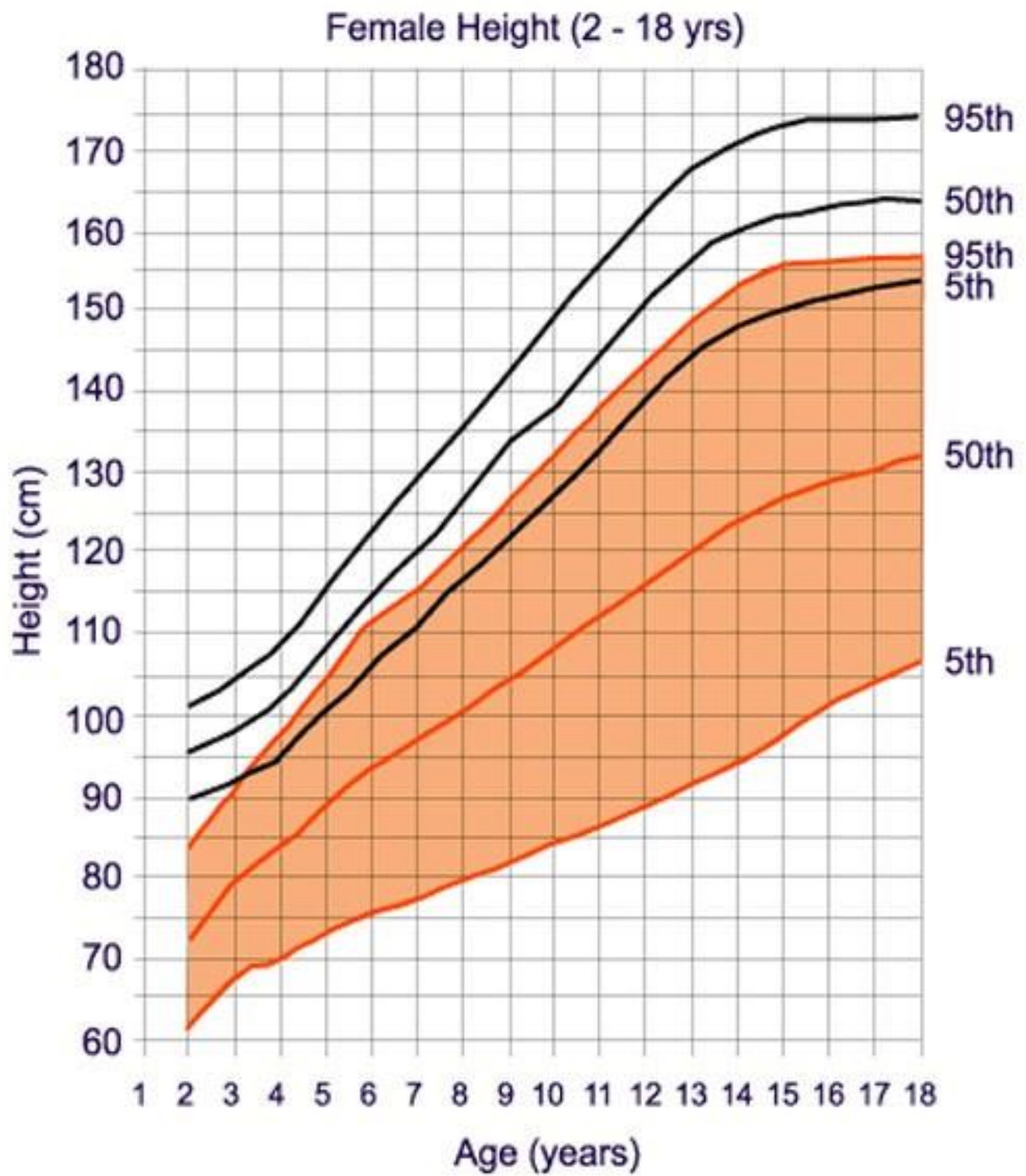
## Height

### From birth to 36 months



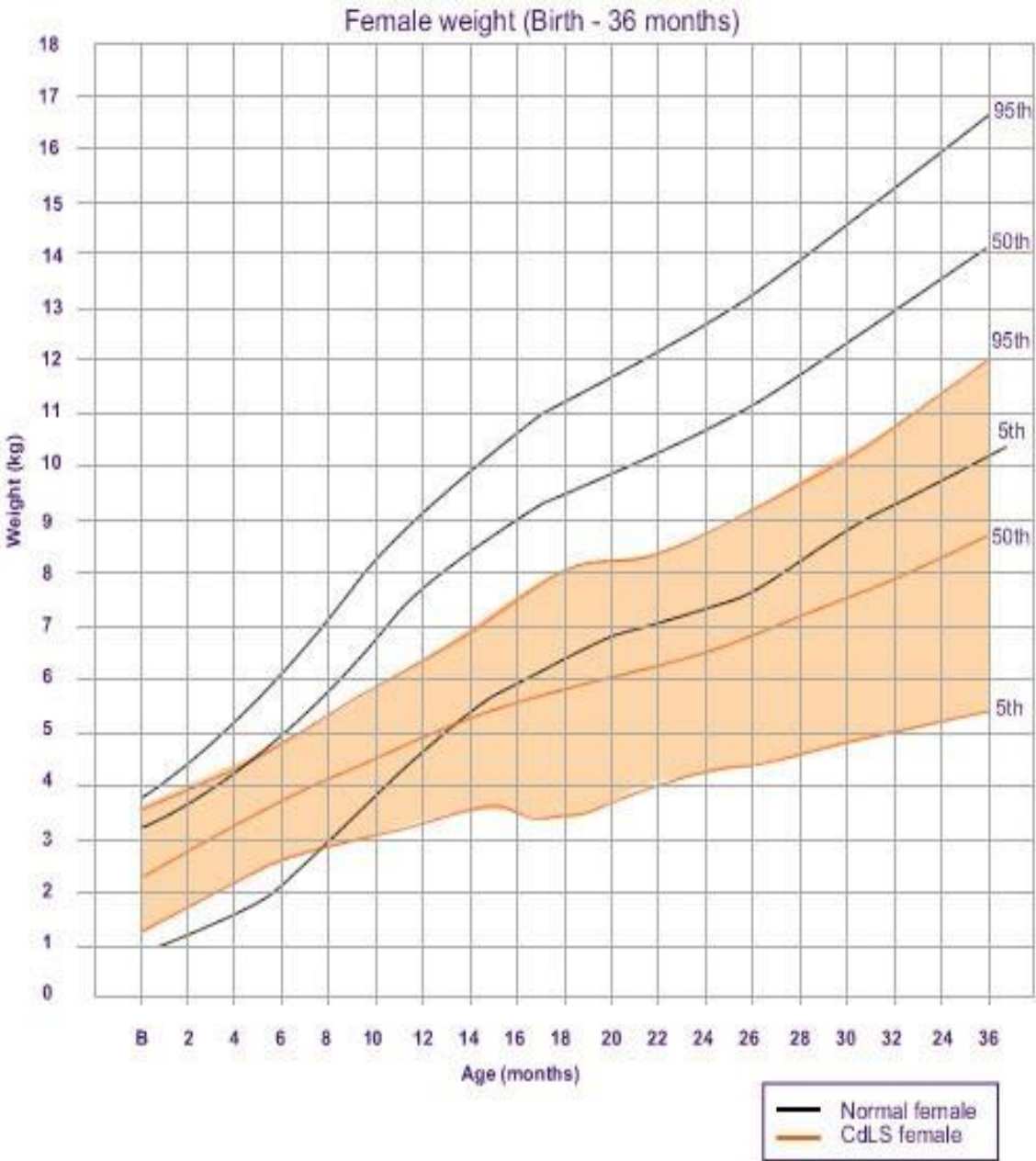


### From 36 months to adult



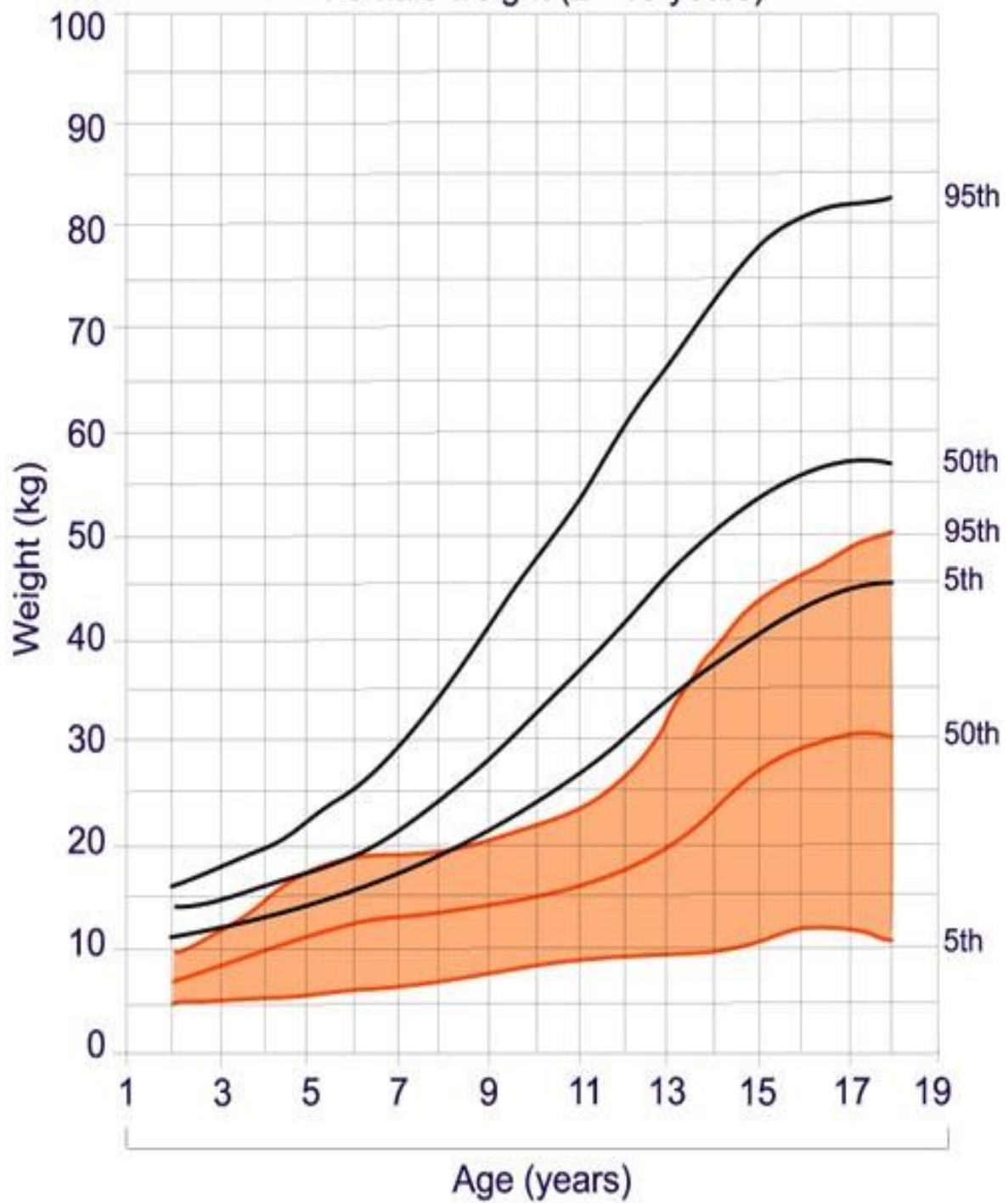
# Weight

## From birth to 36 months



### From 36 months to adult

#### Female weight (2 - 18 years)



— Normal Female  
— CDLS Female

# Head measurement

## Female Head Circumference (0 - 18 years)

