

Libyan International Medical University كليـــــــة العلـــوم الطبيـــة التطبــيــقــيـة

Obesity in Children

By: Faraj Eljehani Year 1 medical student **GBMS II**

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How to avoid obesity and parent's role in prevention

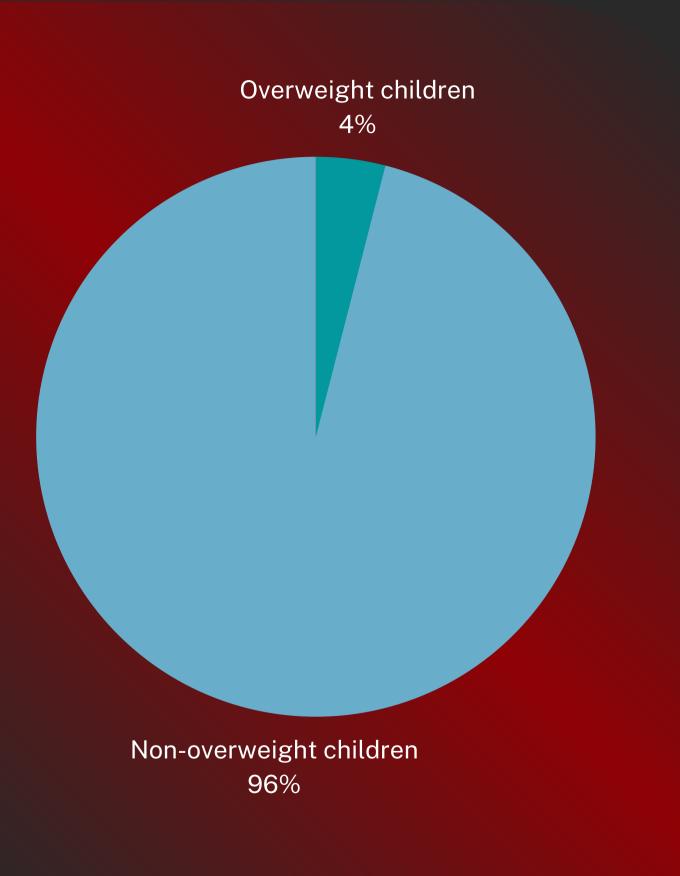


are defined as abnormal or excessive fat accumulation in the body that presents a risk to health

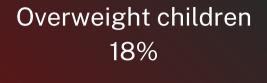
Introduction:

Obesity among children of age 5-19 has risen dramatically from just 4% in 1975 to over 18% in 2016

Overweight and Obesity



Percentage of Obesity among children in 1975



Non-overweight children 82%

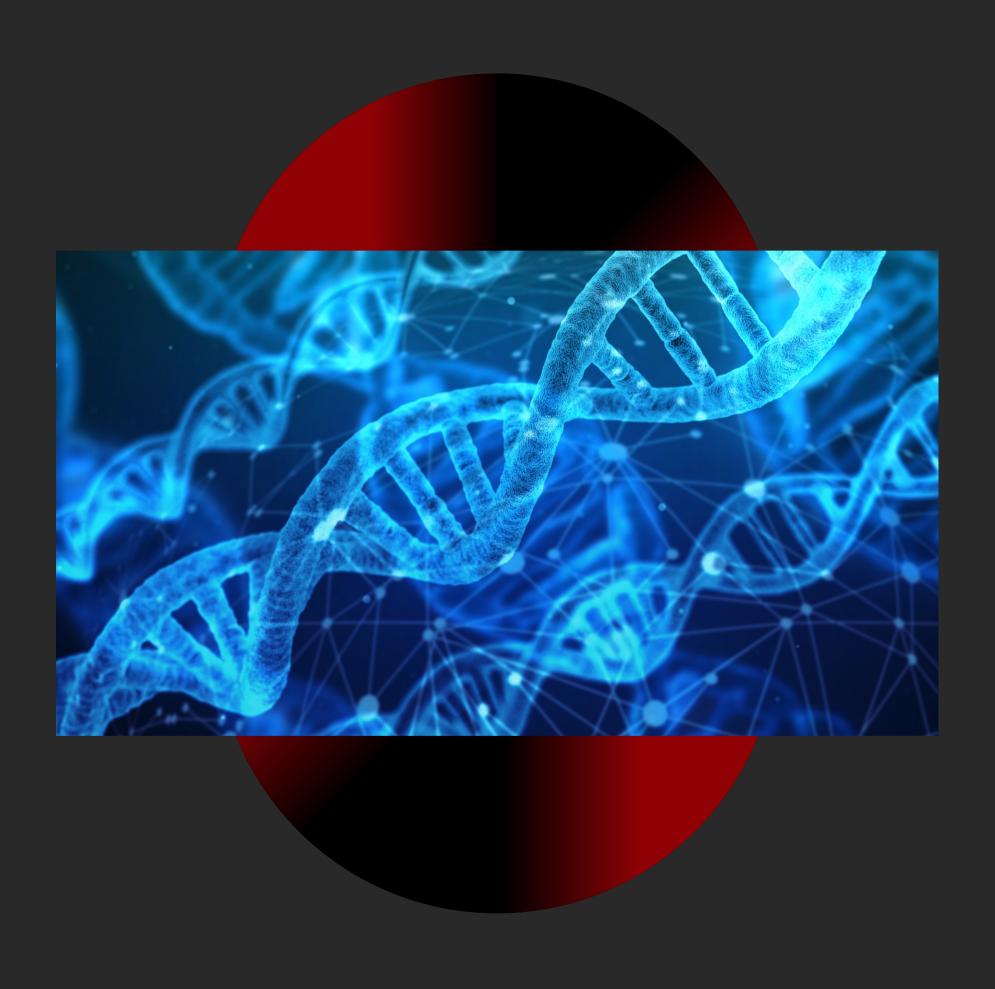
Percentage of Obesity among children in 2016

Causes of Obesity

- Could be due to genetic disorders (Prader-Willi syndrome).
- Poor diet (eating larger portions than you need).
- Lack of physical activity
- Acquired/Medical reasons (cortiseroid & cushing syndrome).



Effects of genes on Obesity D



Genes play a significant role in our physical shape and this includes our body weight.. an example of abnormality in genetics that affect weight is:

Prader-willi syndrome

- Occurs due to Interstitial deletion on the long arm of chromosome 15
- Features: Hypotonia, Obesity, Hypogonadism, Small hands & feet



Effects of Obesity in Children



The impact on Children could be affecting:

Physical health:

- Type 2 diabetes
- Hypertension
- Dyslipidaemia
- Hepatic steatosis (fatty liver)
- Cholelithiasis (gallstones)
- Sleep apnea
- Orthopedic problems
- Asthma
- Heart Diseases

Psychological health:

- Low self-esteem
- Negative body image
- Depression
- Stigma
- Negative stereotyping
- Discrimination
- Teasing and bullying
- Social marginalization

Common diseases associated with Obesity



1. Type 2 diabetes





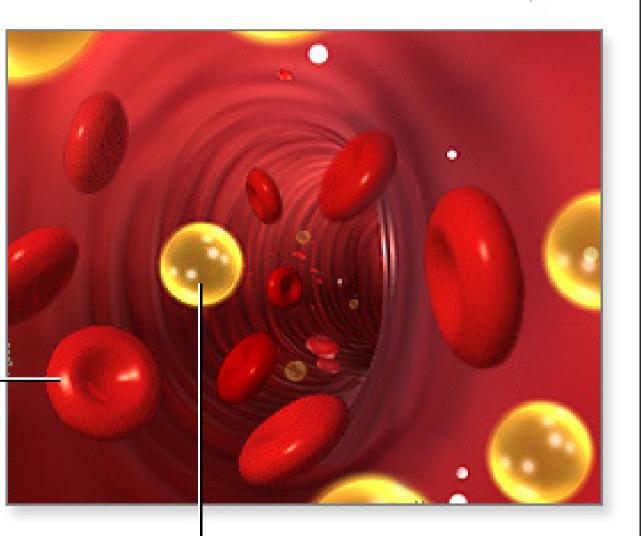
Type 2 diabetes in children is a chronic disease that affects the way your child's body processes glucose for fuel. Without treatment, this disorder causes glucose to build up in the bloodstream, which can lead to serious long-term consequences.

2. High blood pressure & cholestrol



Red blood cell

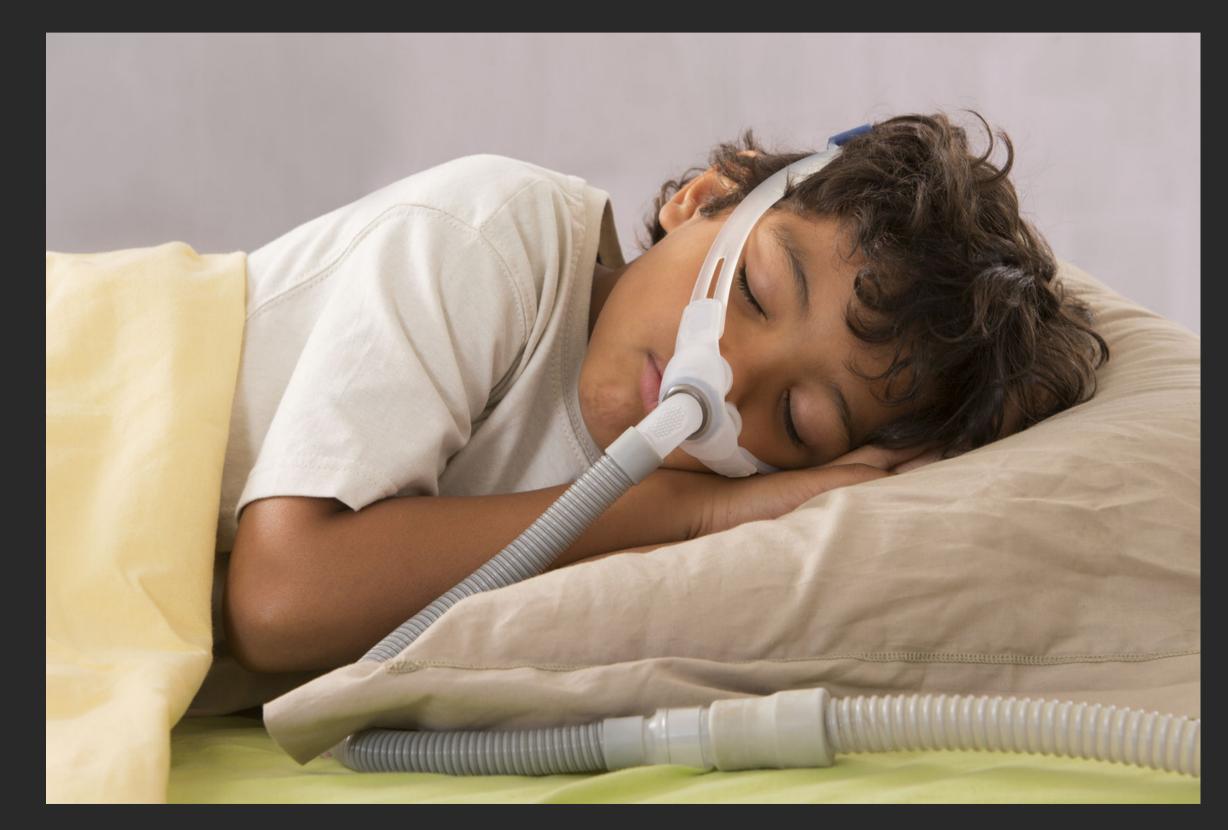
Normal interior view of artery



Cholesterol



3. Sleep disorders (sleep apnea)



How to avoid obesity and parent's role in prevention:

1.Providing a healthy diet: can help children get the nutrients they need and help them reach a healthy weight. A healthy diet is rich in fruits, vegetables, lean proteins, and low-fat or fat-free dairy.

2. Doing physical activitites: active children have a stronger muscles & bones. They also have lower body fat percentage and better fitness. Regular physical activity also reduces depression during childhood. Children need at least 60 minutes of excercise every day.

3 .Sleep well: Good sleep is critical to prevent type 2 diabetes, obesity, injuries, poor mental health, and problems with attention and behavior. Children with ages 6-12 years old need 9-12 hours of uninterrupted sleep a night and youth with ages 13-18 need 8-10 hours

4. Reduce screen time: Many of children spend their time sitting or laying down with a phone, iPad, computer, watching TV or playing video games (also known as screen time). Too much of screen time has health consequences like poor sleep, weight gain, low grades in school and poor mental health in youth.

Conclusion:

- Please keep an eye of your child weight regularly.
- Encourage them to practice physical activities.
- Keep a track of what your child eat and encourage them to eat homemade, low calorie, healthy food.
- The diseases caused by obesity are chronic, so prevention is a priorty.

References:

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