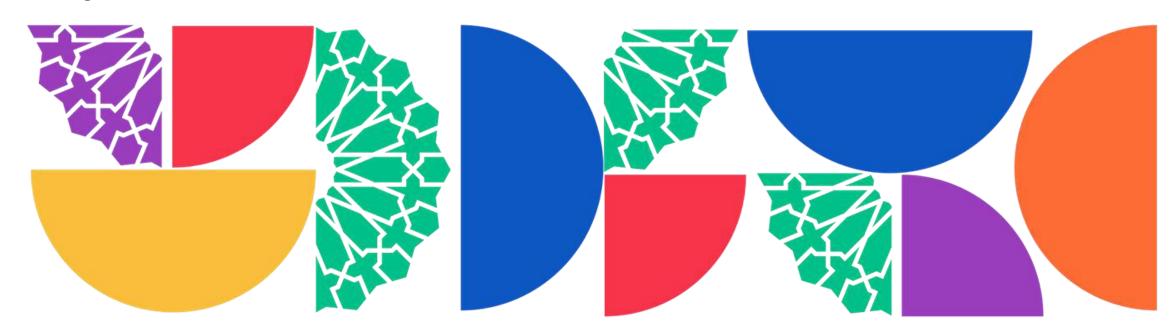
جامعــة الشــارقــة UNIVERSITY OF SHARJAH

Health Awareness and Nutrition

Overweight and Obesity

Department of Clinical Nutrition and Dietetics College of Health Sciences



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Obesity



Obesity is a chronic disease.

It is the result of **Positive Energy Balance**:

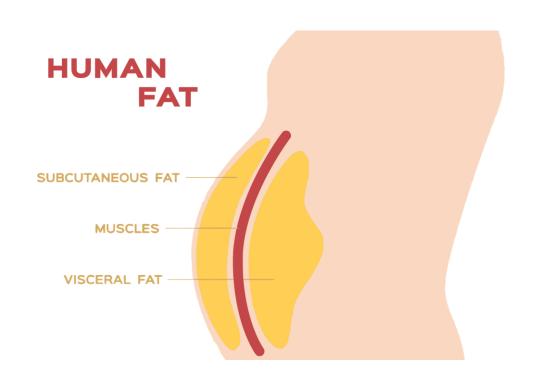
- Energy intake exceeds energy expenditure
- Low physical activity results in an excessive amount of body fat (adipose tissue)

Obesity is a medical condition in which excess body fat has accumulated and has an adverse effect on health, leading to increased health problems.



Central Obesity





Fat that accumulates around the central abdomen is called **visceral fat** and is very dangerous.

Central obesity increases the risk for lipid disorders, heart disease, diabetes, hypertension and others.

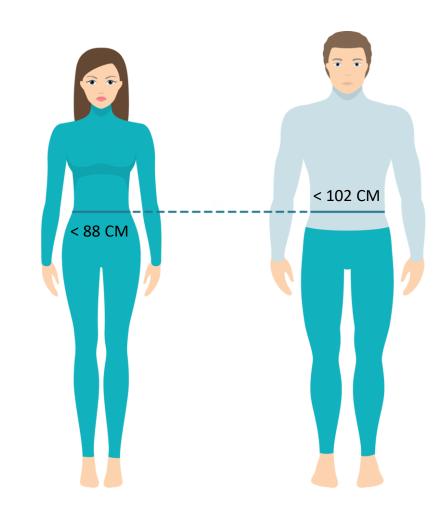




Waist Circumference should be:

< 102 cm for males

< 88 cm for females



BMI



ВМІ	
18.5 or less	Underweight
18.5–24.9	Normal
25.0–29.9	Overweight
30.0–34.9	Obese, class I
35.0–39.9	Obese, class II
40 or greater	Extremely obese, class III

Body Mass Index (BMI) defines average relative weight for height in people older than 20 years.

BMI = weight in kg/(height in m)2

In general, the higher the BMI, the more **risk of diseases**.

What is Your BMI?





BMI



BMI Drawbacks:

- BMI values fail to reveal body composition (% of body fat).
- BMI values fail to reveal **fat distribution** (location of fat).

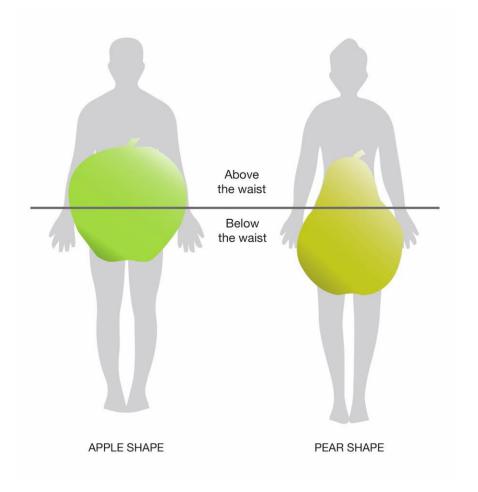
BMI evaluation is not suitable for:

- Athletes (highly developed muscles falsely increase BMI)
- Pregnant and lactating women
- **Children** < 20 years old



Types of Obesity





Women: 20-30% body fat

Gynoid obesity

- Pear Shaped (fat mainly on the hip area)
- Encouraged by female hormones
- Stores of extra energy for pregnancy and lactation
- More difficult to lose than abdominal fat

Men: 12-20% body fat

Android obesity

- Apple Shaped (fat mainly on the waist area)
- Encouraged by male hormones
- Closer association with diseases
- (cardiovascular, hypertension, diabetes)

Causes of Obesity



Genetic factors: children from obese parents have a higher risk of being obese

Psychological factors: tension, anxiety, fear, humiliation (food acts as emotional support)

Behavioral factors: sedentary lifestyle

Eating habits: snacking in-between meals, eating late at night, intake of refined, starchy & fatty foods

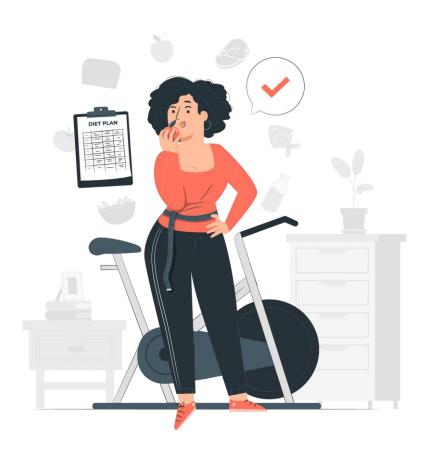
Social aspects: social commitments, eating out, fast food restaurants

Physiological factors: the presence of disorders in the secretion of some hormones, especially thyroid hormones



Treatment of Obesity





Best ways to fight obesity:

- Diet therapy
- Physical activity
- Behavior modification
- Sometimes drugs and surgery are needed (with all of the above)

Dietary approach:

- Gradually lose weight
- Achieve and maintain desirable body weight and a good nutritional status
- Correct faulty eating habits





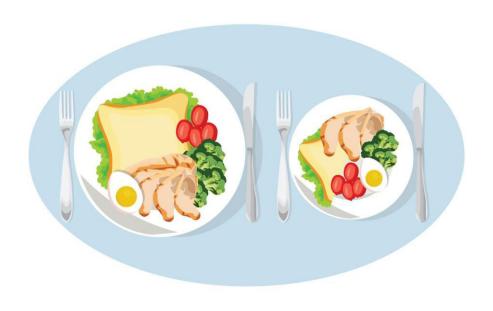
Weight reducing diets should be:

- Low in energy
- Adequate in other nutrients (vitamins and minerals)
- Provide satiety
- Easily adapted from family meals
- Easy to follow even when eating out
- Reasonable in cost
- Able to modify dietary behavior



Treatment of Obesity





Other recommendations:

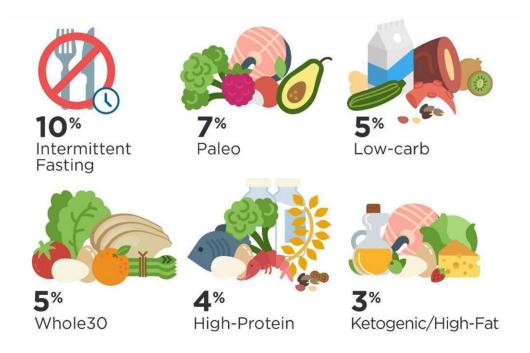
- Eat smaller portions
- Lower energy density of food
- Remember to drink more water
- Focus on complex carbohydrates (fibers)
- Choose fats sensibly
- Focus on physical activity

Extreme Approaches to Weight Loss



Fad diets:

"Quick action" diets based on **misinformation**, which result in nutritional imbalance.



Extreme Approaches to Weight Loss





Fasting/Starvation/Dieting: leads to the formation of toxic (poisonous) substances in body & may even cause death due to loss of heart muscle

Body wraps & special clothing: results in temporary weight loss

Drugs: appetite suppressants (drugs to help fat absorption etc.) have negative side effects

Surgery: like liposuction, gastric banding, gastric bypass, and ballooning also have side effects

Healthy Tips



- Set achievable goals for weight loss (0.5-1Kg per week).
- Adapt scientific needs to family meals by choosing healthy methods of cooking (baking, boiling, steaming, roasting) and fats, starch, sugar and salt intake in the diet.
- Do not be disturbed about weight plateaus (energy intake = energy output). Get started again with exercise.
- Avoid binges (eating too much at one time).
- Eat small meals at frequent intervals and spread energy throughout the day.
- Be careful while eating out choose healthy options in smaller amounts.

