Introduction to Public Health Module # 19

Obesity and it's prevention

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OBJECTIVES OF THE LECTURE

By the end of this lecture you will be able to:

- Conceptualize
 - The over nutrition
 - the impacts of obesity.
 - Obesity & its causes and prevention
- Understand the various steps that can be taken to measure the obesity such as BMI or QI etc.

Obesity

- An abnormal growth of adipose tissue due to an enlargement of fat cell size (Hypertropic) or an increase fat cell number(Hyperplastic) or a combination of both
- Major risk factors for a number of chronic diseases, including diabetes, cardiovascular diseases and cancer
- Once considered a problem only in high income countries, now dramatically on the rise in LMIC, particularly in urban settings

Causes of obesity

- 1. Genetic factor
- 2. Age
- 3. Sex
- 4. Socioeconomic factor
- 5. Physical inactivity
- 6. Eating habit
- 7. Family tendency
- 8. Endocrine factor
- 9. Drugs ,alcohol
- 10. Education
- 11. Ethnicity

How to measure obesity and overweight

- 1. Skinfold thickness
- 2. Waist circumference
- 3. WHR
- 4. Broca's index
- 5. BMI or QI
- 6. Measuring fat cell



Preventing obesity

- Follow a healthy eating plan- balance of energy IN and energy OUT
- Focus on portion size
- Be active- walk, bike or physical exercise
- Reduce screen time- use of TVs, computers, DVDs, and videogames because they limit time for physical activity
- Keep track of your weight, body mass index, and waist circumference

Calculate Your Body Mass Index (BMI)

A common method of evaluating your weight

BMI= body weight (in Kg)/height (m)²

BMI Intervals

Under weight

• Less than 18.5

• 18.5-24.9

• 25-29.9

30 and above

Normal weight

Overweight

Obese

RDA#Recommonded Dietery Allowence

- Carbohydrate = 50% 65%
- Protein = 15%-20%
- Fat = 25%-30%
- Dietary Fiber = 25 -40 gram/ day Approx.
- Fresh vegetables+ fresh Fruits = Plenty if calorie free or zero kcal.
- Table salt = Less than 5 gm/day
- Water = for one kcal one ml of water plus daily loss.

Complications of Obesity

- 1. Clinical and Medical
- 2. Mechanical
- 3. Psychological

Management of obesity

- 1. Health education
- 2. Diet control
- 3. Exercise
- 4. Treatment
- 5. Lifestyle changes/ Changes of attitude and behaviour