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L3: Modifiable Risk Factors of Lifestyle Disease

Communicable Diseases

- An illness that spreads from one person or animal to another, or from a surface to a person.

Non Communicable Diseases (NCDs)

- Are top killers in the Philippines.
- Are non-infectious illnesses but can be inherited or developed based on the individual's lifestyle.

Ex:

 Heart Disease, Cancer, Liver Cirrhosis, Chronic Renal Failure, Obesity, Stroke and Type 2 Diabetes.

LIFESTYLE DISEASES

 An individual's usual routine, food intake, vices or way of life that can develop diseases.

SMOKING

- It weakens the body and leads to many diseases.

TAR

- Is a harmful by-product of smoking cigarettes which is carcinogenic.

NICOTINE

- Is a toxic chemical compound that mostly consists of nitrogen.

CARBON MONOXIDE

 Is a poisonous chemical from burnt cigarettes that makes the heart do more work.

Kinds of Tobacco Smoke

1. Mainstream Smoke

 It refers specifically to the smoke that a smoker directly inhales. (First Hand smoke)

2. Second-hand Smoke

- Is the combination of two forms if smoke from burning tobacco:
- Side-stream Smoke Describes the smoke coming
 off the end of a smoldering
 cigarette.
- Main-stream Smoke Is smoke that is exhaled by the smoker

3. Third-hand Smoke

 Is the left-over contamination in a room/car/clothing that persists after the cigarette is extinguished.

Dietary Habits

- Are the usual choices of food that people make.

Poor Dietary Habits

- Occur when the person does not follow the principle of good nutrition adequacy, balance and variety.
- Adequacy refers to moderate amounts of nutrients to maintain normal body function.
- **Balance** refers to the correct combination of nutrients.
- Variety refers to consumption of different types of food product.
- Add up the risk of developing diseases and health problems such as:
 - Obesity
 - Tooth decay
 - High blood pressure

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- Heart disease and stroke
- Type 2 diabetes
- Osteoporosis
- Certain types of cancer
- Depression
- Eating disorder

SEDENTARY LIFESTYLE

 Occurs when an individual lacks the recommended level of regular physical activity or physical inactivity.

DISEASES ASSOCIATED WITH UNHEALTHY LIFESTYLE

CARDIOVASCULAR DISEASE

 A disease of the heart and blood vessels and the leading cause of death in our country.

CANCER

- A disease where cells divide in an uncontrolled pace.
 - MALIGNANT Is cancerous, The tumor can spread to invade and destroy nearby tissues and body parts. This process is called metastasis.
 - BENIGN Is not cancerous, Benign tumors may increase in size but do not invade other body parts.

Four Major Categories of CANCER

- CARCINOMA The most common; an invasive malignant tumor from epithelial tissue that tends to spread to other body parts.
- SARCOMA A connective or supportive cancer, which include muscle, bone, fat, blood vessels, and cartilage cancers.

- LYMPHOMA Arises in cells of the lymphatic or the immune system tissues characterized by abnormal production of white cells and decreases in resistance.
- LEUKEMIA The cancer of the blood or bone marrow characterized by an abnormal production of blood cells, usually leukocytes or white blood cells.

DIABETES / DIABETES MELLITUS

 A disease resulting from a condition of the body wherein it is not capable of producing or effectively using insulin.

Types of DIABETES

- TYPE 1 DIABETES Is insulin reliant diabetes because the body produces little or no insulin at all.
- TYPE 2 DIABETES Is non-insulin dependent, This occurs when the body produces insulin but cannot be used by the cells.
- GESTATIONAL DIABETES Occurs in certain pregnant
 individuals, The hormones cause the
 body not to respond to the insulin
 produced by the body.

Ways to Prevent Lifestyle Diseases

- Eat healthy foods
- Do daily routines of physical activity
- Do not smoke
- Drink moderate amounts of alcohol only
- Manage stress.

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L4: Fuel for Performance

NUTRITION

 Is the health branch that stresses the importance of the food for growth and development, as well as in lowering the chances of acquiring diseases and illness.

Key Principles of Nutrition:

- ADEQUACY
- BALANCE
- VARIETY

NUTRIENTS

- Are important food substances that help our body function properly.

CLASSIFICATIONS:

1. MACRONUTRIENTS

- CARBOHYDRATES Main source of energy.
- PROTEINS Needed for growth, building and repair of body tissues.
- FATS Needed for immune system function and helps the body store and use vitamins.
- WATER Needed for waste removal, regulates body temperature; cushions the spinal cord and joints.

2. MICRONUTRIENTS

- CALCIUM Needed for muscle contraction, nerve signaling, and bone growth and strength.
- VITAMIN D Promotes calcium absorption and

- maintains calcium levels. Aids in bone growth and bone remodeling.
- B VITAMINS Required for energy metabolism and nerve function.
- ZINC Promotes wound healing, creates protein and DNA, and keeps the immune system strong.
- IRON Components of hemoglobin that carries oxygen throughout the body. Essential for breathing and energy metabolism. Aids in proper immune function.
- MAGNESIUM Involved in protein synthesis, muscle and nerve function, blood sugar control, and blood pressure regulation. Necessary for energy production.
- VITAMIN C Acts as an antioxidant. Necessary fix collagen, carnitine, and tyrosine (proteins) synthesis.
- VITAMIN E Acts as an antioxidant and helps protects us against harmful free radical formations, when fat undergoes breakdown in the body.
- **SELENIUM** Acts as an antioxidant.

BEFORE, DURING, AND AFTER EXERCISE

BEFORE EXERCISE

 The food eaten before exercise serves as the energy source.

GLUCOSE

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- A simple form of sugar that converts into energy.

GLYCOGEN

 Sugar stored in liver and muscle cells, which can be broken down to glucose.

DURING EXERCISE

- The amount needed depends on the duration of the exercise.

AFTER EXERCISE

 The amount of food and time depends on the duration and intensity.

EFFECTS OF BAD NUTRITION

Consequences of Poor Nutrition

- Pooer Performance
- Long Recovery
- Immune Suppression
- Weight Changes

Ways to Improve Eating Habits

- REFLECT
- REPLACE
- REINFORCE

Factors that can Affect Wight Control

- Genetic Factors and Hormones
- Environmental Factors
- The Concept of Energy Balance

FAD DIETS AND SUPPLEMENTS

Guidelines for Safe and Nutritious Diet

 Eat food that is low in calories bbt requires essential body nutrients.

- Fat should be less than 30% of calories but high in carbohydrates.
- Variety of food suit tastes and avoid hunger between meals.
- Compatible with lifestyle and readily available.
- Diet should be lifelong and sustainable.

DIETARY SUPPLEMENTS

 Are substances that contribute to health maintenance and overall diet.

Risks in Taking Supplements

- Combination of supplements
- Combined with medications
- Replacement of prescription medicines
- Overdose of Vitamins A, D, and Iron
- Dangerous before, during, and after surgery