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## Introduction

Nutrition is a fundamental science that studies the relationship between food and the body's functioning. It helps us understand how nutrients influence 9 courth, development, energy, and disease prevention. Understanding nutrition allows us to understand not only the biological processes that sustain life, but also the importance of a balanced diet for maintaining health and improving quality of life. Also, social and cultural factors influence people's eating habits. In this way, nutrition becomes an essential Pilar for achieving a healthy life.

### Summary

Nutrition is the fundamental Process by which the body obtains, Processes, and utilizes nutrients for survival. Its essential functions are: energy supply, tissue construction, metabolic regulation, and disease Prevention.

There are several specialized branches such as sports nutrition (for athletes), Pediatric nutrition (for children), clinical nutrition (in hospital), and oncology nutrition (for cancer Patients).

Nutrition, health and development:

Proper nutrition is vital for health and development

throughout life, from strengthening the immune system

to improving academic Performance and Productivity.

Malnutrition (deficit or excess) remains a global threat.

Diseases derived from Poor nutrition:

a foor diet can lead to chronic health Problems, including:

Overweight and obesity: the most common in Mexico, linked
to Poor eating habits.

Diabetes: high glucose levels that damage vital organs.

- · Anemia: lacks of key nutsients (icon, 1312, etc). That causes fatigue.
- ·OsteoPorosis: fragile bones due to a slow renewal Process.
- · Hypertension: high blood Pressure, aggravated by an inadequate diet and a sedentary lifestyle.
- · Chout: Accumulation of unic acid due to excessive consuption of red meat, seafood or alcohol.

Importance in Mexico:

Nutrition is a mejor Public health challenge in Mexico, as the country ranks first in the world in childhood and adult obesity. This Pooblem is a leading cause of morbidity and mortality and is closely linked to diseases such as hypertension and diabetes.

## -Developmen-

#### ·What is nutrition?

Nutrition is the fundamental Process by which organisms obtain the nutrients necessary for their survival and functioning.

However to better understan what nutrition is, we can turn to the functional Perspective Provided by the WHO: nutrition is a critical aspect of development and overall health. It is closely linked to well-being at different stages of life, from childhood to adulthood, contributing to stronger immune systems, safer Pregnances, and a lower incidence of non-communicable diseases such as diabetes and cardiovascular disease.

Furthemore, adequate nutrition fosters better academic ferformance in children and greater Productivity in adults, helping to break the cycles of Poverty and hunger.

However, malnutrition remains a significant threat, manifesting itself in both undernutrition and overweight a growing Problem in low- and middle-income countries.

#### Functions of nutcition

Recognizing the functions of nutrition is essential to understan the difference between nutrition and feeding. While feeding refers to the act of consuming foot, nutrition focuses on how the body Processes and utilizes those nutrients to maintain it's vital functions.

Understanding nutrition involves recognizing it's cole in tissue construction, energy Production, metabolic regulation and disease Prevention. These internal biological Processes are essential for the body's development, health, and overall well-being, and are clearly distinct from simply eating.

Nutritional functions are essential for maintaining the body in optical condition. The main ones are listed below:

- · Energy supply: necessary to Perform Physical and mental activities.
- · Tissue building and relate: crucial for growth and healing.
- · Regulation of metabolic Processes: ensures the correct functioning of bodily functions.
- · Disease Prevention: helps Protect against chronic diseases and strengthens the immune system.

Defending on how organism acquiere and utilize nutrients, 5 types of nutrition can be distinguished

- · Autotophic nutsition.
- · Heterotophic notastion.
- · Nolozoic nutrition.

This clasification demostrates the diversity of mechanisms that organisms have devolved to survive in different environments.

Relationship between nutrition and health:
The relationship between nutrition and healt is close, as a balance and varied diet contributes to improving a person's overall health and well-being.

Acording to the spanish agency for Food Safety and Nutrition (AESAN), adopting an eating Pattern that Prioritizes Plant-based foods and reduces the consumption of animal Products can reduce the risk of chronic diseases and improve quality of life.

#### These are some of the branches of nutrition?

·SPorts nutrition: nutrition is vital to an athlete's work, as it is one of the factors that most influences their

Peirformance. This branch of nutrition specializes in People who lead active sports lives. It guides athletes on what, when, and why they should eat or drink certain foods, delending of the occasion.

- Pediatric nutrition: some of the main activities of this role include creating school breakfast menus that Provide sufficient nutrients, as well as helping children make better choice regarding their eating habits. Pediatric nutritioning their babies from breast milk of formula to solid foods.
- \*Clinical nutrition: in this role, you will work in clinics, Private and Public hospitals, or community health centers. You will collaborate closely with the medical and nursing staff to create. Programs based on the Patient's income and Psychological and Physical status.
- •Oncology nutrition: this nutrition must have a fairly advanced Professional training, both intellectually and Personally. As an oncology nutritionist, you will be fact of a multidisciplinary medical team that seeks to improve the quality of life of cancer patients.

# Importance of nutrition in Mexico

The importance of nutrition in Mexico should not so unnoticed, especially since our country ranks fifth in obesity Problems slobally. In fact, according to information from the National Institute of Public Health (INSP), over the last 30 years, overweight and obesity have become an epidemic affecting one in three adolescents and children, as well as seven in 10 adults in our country.

The nutrition in Mexico is fundamental and a true challenge, as it Plays a Key vole in Preventing this Public health Phenomenon. It has been shown that this issue is linked to chronic diseases such as hypertension and diabetes, as well as other cardiovascular conditions that represents some of the leading causes of morbidity and mortality.

Nutrition in Mexico is not Just a food issue, but an education issue. The social development Programs implemented have borne fruit; however there is still a

long way to go to exadicate the nutritional Problems so evident in Mexico. Whit Mexico ranking first in childhood obesity and second in adult obesity worldwide, it is of utmost importance that we realize that having the resources to feed ourselves is only half the batte, while learning to eat Properly is the other Part of this ardous task.

### · Main diseases derived from Poor nutrition:

Most People think that eating unhealthy foods is the cause of illness, but that's not the only season. Eating foods with few nutrients, drinking too little water daily, eating at irregular times, or replacing water whit soda or energy drinks can lead to long-term health Problems.

Overweight and obesity: these are the most common diseases cause by Poor nutrition in Mexico. While adults are more likely to suffer from them, children are also Part of the statistics. The risk of suffering from any of these diseases is that they are accompainted by other that only Physically deteriorate the body.

Diabetes: this disease occurs when blood sugar (glucose) levels are higher than normal, which can compromise the health of the kidneys, heart, necrous system, and other vital organs.

Anemia: Unlike overweight and obesity, anemia occurs when a diet is Poor in iron, Vitamin B12, Vitamina E. Protein, or folic acid. Why? These nutrients help maintain normal oxygen levels in the blood, so when these nutrients are lacking, the body feels tired or weak.

Obteo Porosis: another disease that can acise from Poor nutrition is osteo Porosis. Bone is tissue that renews itself over and over again; however, when this Process slows, bones become brittle or fragile, causing the first symptoms of osteo Porosis. Adults are most likely to suffer from this disease; however, cases can also occur in young PeoPle.

Hypertension: One of the causes of aggraves cardiovasovar disease is diet, especially if it's based on trans fats, carbohydrates, and alcohol. Thus, one of the consequences, coupled with a sedentary lifestyle or high stress levels is hypertension, a common condition in adults.

Goot: Excessive consumption of red meat, seafood, sugary drinks, or alcohol increases unic acid levels in the blood, causing what is knows as gout, intense Paint in the joints, knees, and feet.

### Conclusion

Notation is a vital Process through which the body obtains, transforms, and utilizes the nutrients Present in food to ensure the Profer functioning of each of its systems. It is not limited solely to the act of eating; it balance of the food we eat, as energy, growth tissure relair, and disease Prevention defend on it. In this sense, nutrition becomes an essential foundation for achieving and maintaining optimal health, demostration that good nutrition not only influences the Present, but also the long-term quality of life.

## Linkography

· What is nutrition? / relation whit other branches

https://www.oniv.net

- · Importance of nutrition in Mexico https://www.etac.edu.mx https://universidadinsurgentes.edu.mx
- · Branches of nutrition https://www.ovg.edu.mx
- Diseases resulting from Poor nutrition https://ecofitre.mx