

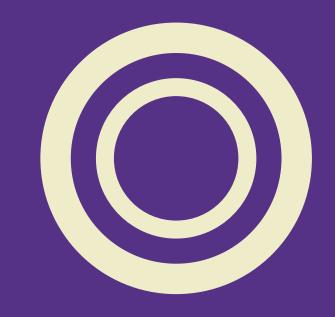


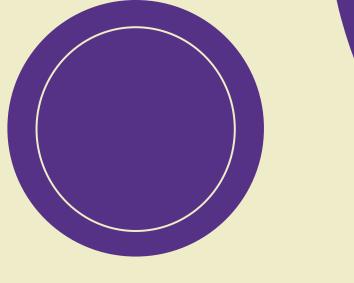
CARBOHYDRATES

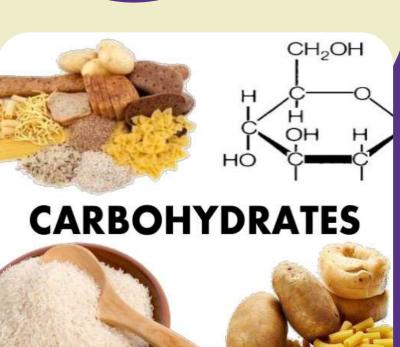
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ILOs

- 1. Introduction
- 2. Identify types of carbohydrate
- 3. Identify the function of carbohydrate
- 4. Mention risk of carbohydrate
- 5. Identify deoxysugars
- 6. Summary
- 7. References







> Introduction

- □ Carbohydrates are widely distributed in plants and animals; they have important structural and metabolic roles. In plants, glucose is synthesized by photosynthesis and stored as starch. Animals can synthesize carbohydrates from lipid glycerol and amino acids.
- ☐ Carbohydrates also serve as a structural component of many organisms. The general formula(CH2O)n





Monosaccharide

simpler carbohydrates

Disaccharide

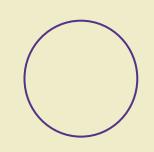
two
monosaccharide
units(maltose,
sucrose and
lactose)

Oligosaccharide

containing a small number (typically three to ten two to ten Monosaccharides

> Function of carbohydrate

- Carbs Provide Your Body and gives Energy
- They Also Provide Stored Energy
- Carbohydrates Help Preserve Muscle
- They Promote Digestive Health





> Risk of carbohydrate

Galactosemia

Glycogen storage diseases

High cholesterol

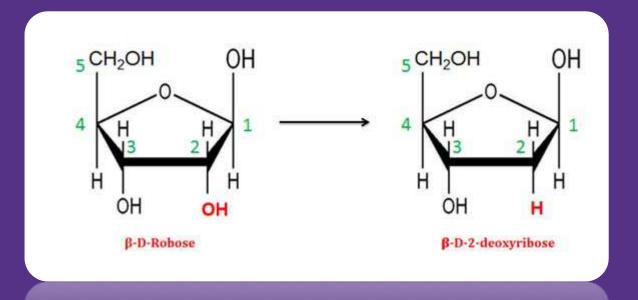
Heart diseases

Hypoglycemia

Hyperglycemia

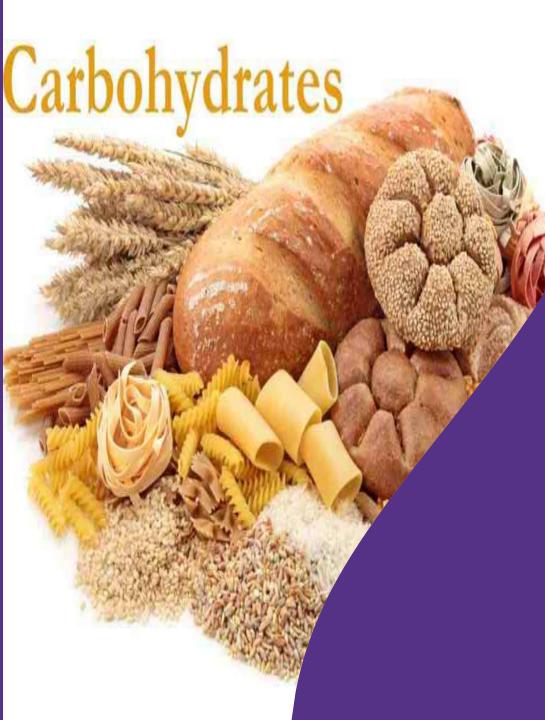
Lactose intolerance

Deoxysugars



- Deoxysugars are important structural components in numerous natural products, including glycoproteins, bacterial endotoxins, and secondary metabolites.
- Deoxysugars also play an important role in the DNA-binding properties of antibiotics





> Summary

Carbohydrates are an important source of energy for the body. Some types are more healthful than others. For instance, dietary fiber is a carbohydrate that protects heart and gut health, whereas added sugars can lead to an increased risk of type 2 diabetes, heart disease, and overweight.

References

- 1. Harper's Illustrated Biochemistry /Robert K. Murray, MD, PhD/ twenty-sixth edition
- 2. Lippincotts Illustrated Reviews Biochemistry 3rd Ed.
- 3. https://my.clevelandclinic.org/health/articles/15416-carbohydrates



