



**Libyan International Medical University**  
**Faculty of pharmacy**

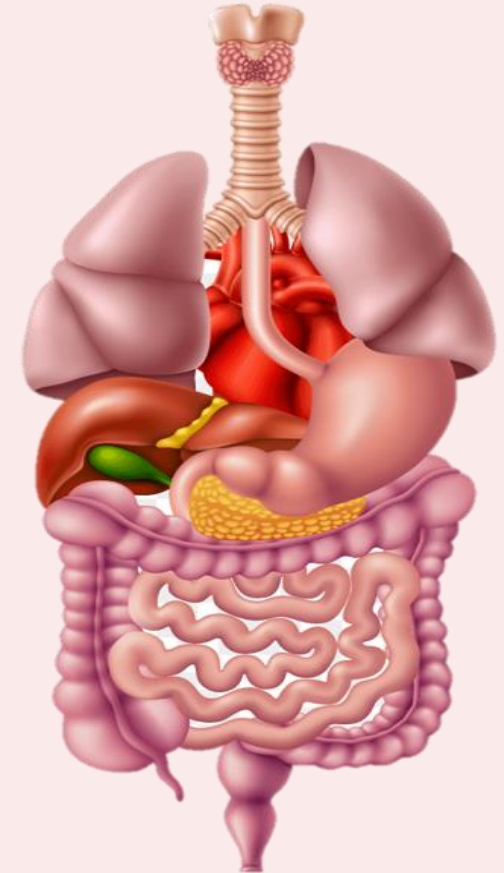


# Mechanism of food ingestion

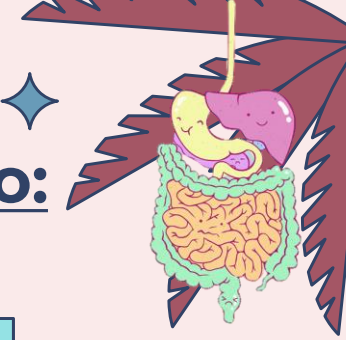


**Presented by:**

**Shahd Alathram 3418    Mais Elsoussi 3677**  
**Fatima Elsahatti 3262    Hend Alferjany 3494**



# At the end of this presentation you'll be able to:



01

List general parts of digestive system

02

Describe mechanism of food ingestion

03

Recognize how digestive juices break down the food

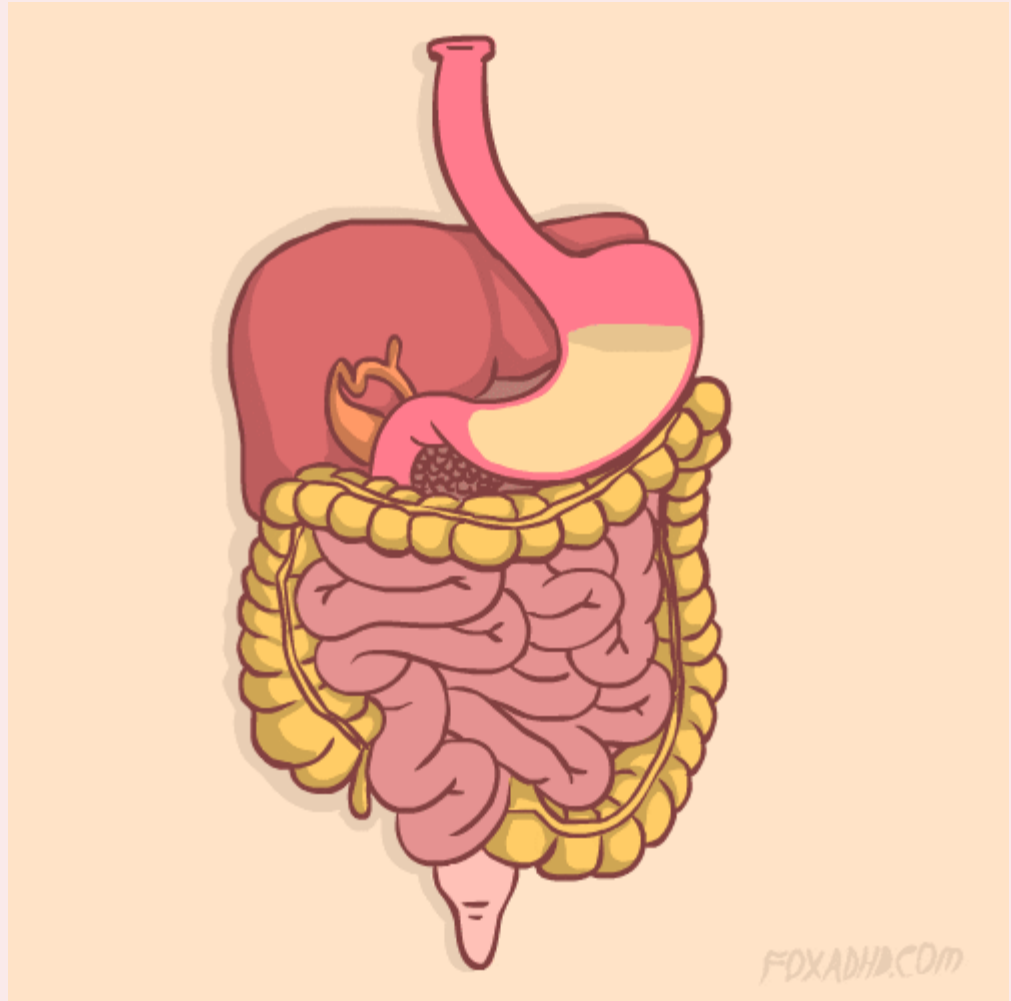
04

List general disorders of the gastrointestinal tract

# Introduction

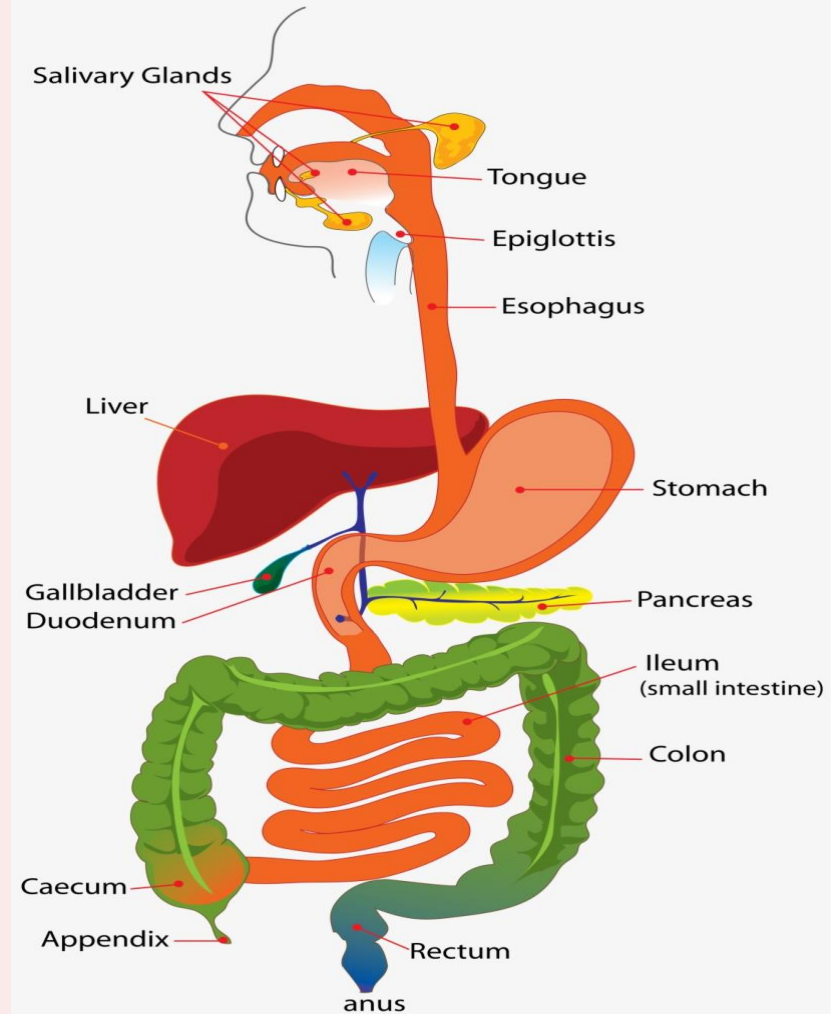


The digestive system is used for breaking down the food into nutrients which then pass into the circulation system and taken to where they are needed in the body.

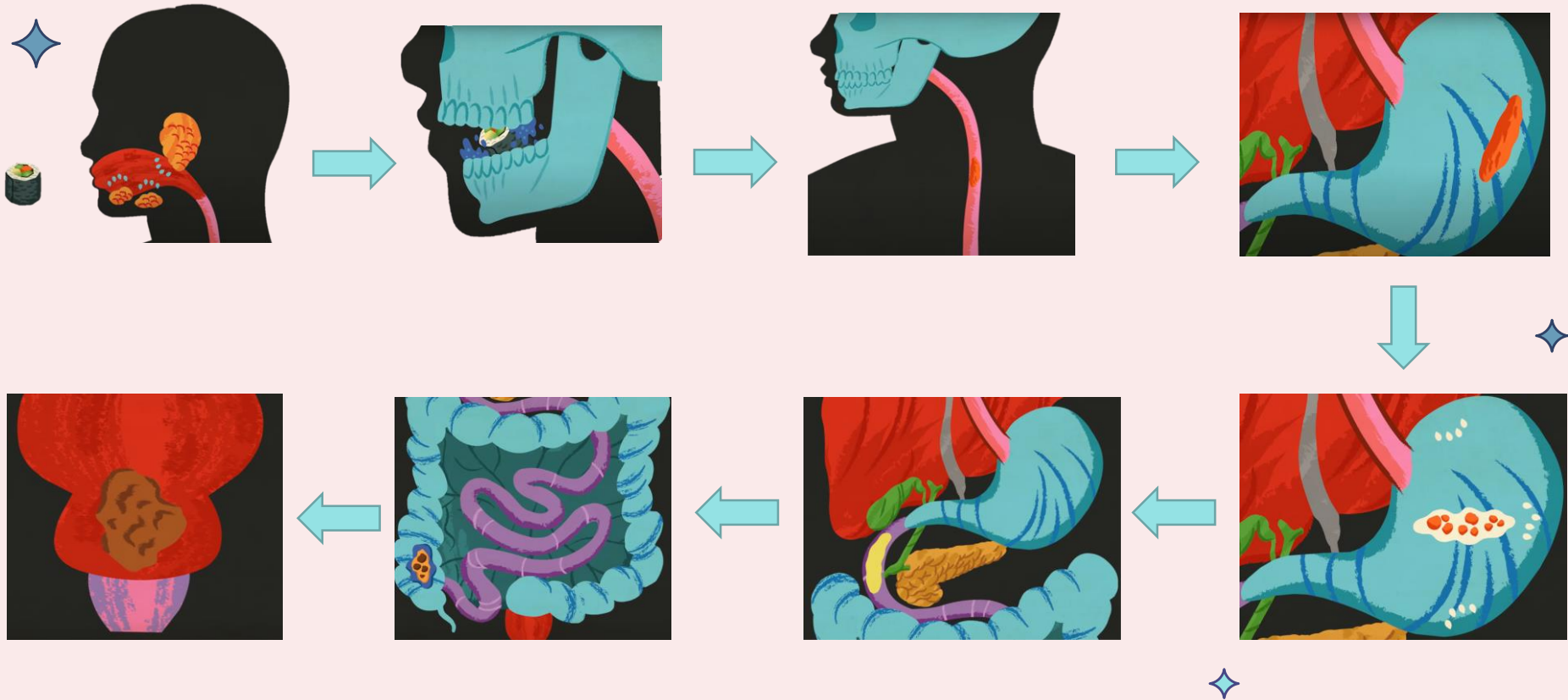


# ◆ General parts of digestive system

- ❖ The digestive system is made up of the gastrointestinal tract and the liver, pancreas, and gallbladder.
- ❖ The GI tract is a series of hollow organs joined in a long, twisting tube from the mouth to the anus.



# Mechanism of food ingestion



# How do **digestive juices** in each organ of the GIT break down food?

**Salivary glands**

**Pancreas and Liver**

**Digestive  
juices**

**Glands in the  
stomach lining**

**Small intestine**



# How do digestive juices in each organ of the GIT break down food? ✨

Organ	Enzyme	Function
Salivary glands	Amylase	Starch → Maltose
Glands in the stomach lining	Proteases	Protein → Poly peptide
Liver	Bile salts	Emulsification of lipids
Pancreas	Amylase Lipase Endopeptidase Nuclease	Starch → Maltose Triglycerides → fatty acid Peptides → amino acid DNA/RNA → nucleosides
Small intestine	Maltase	Maltose → free glucose

# ◆ General Disorders of the Gastrointestinal Tract :

- ◆ Vomiting
- ◆ Nausea



- ◆ Flatus



- ◆ Loss of Appetite





# Summary:

---



- ❖ Your digestive system breaks down and absorbs nutrients from the food and liquids you consume to use for important things like energy, growth and repairing cells.
- ❖ The digestive system is made up of the gastrointestinal tract and the liver, pancreas, and gallbladder.
- ❖ The mechanism of food digestion begins in the mouth.
- ❖ The digestive juices which break down food are secreted from the salivary glands, stomach, liver, pancreas, small intestine.
- ❖ General disorders of the gastrointestinal tract include: vomiting.



# Reference:

---



- Hall J. E. (2011), *Guyton and Hall Textbook of Medical Physiology*, 12<sup>th</sup>, Saunders, an imprint of Elsevier In.
- <https://www.niddk.nih.gov/health-information/digestive-diseases/digestive-system-how-it-works>.
- [file:///C:/Users/ECS-Y/Desktop/Downloads/Digestive\\_System\\_508%20\(2\).pdf](file:///C:/Users/ECS-Y/Desktop/Downloads/Digestive_System_508%20(2).pdf).
- <https://ib.bioninja.com.au/standard-level/topic-6-human-physiology/61-digestion-and-absorption/chemical-digestion.html>.
- <https://www.msmanuals.com/home/digestive-disorders/symptoms-of-digestive-disorders/loss-of-appetite>.



THANK YOU!

