Gastroesophageal Reflux Disease (GERD) – Simplified Notes

Definition:

GERD is a chronic condition where stomach contents reflux into the esophagus due to dysfunction of the lower esophageal sphincter (LES), leading to symptoms such as heartburn and regurgitation.

Etiopathogenesis:

- Weak or transient relaxation of the lower esophageal sphincter (LES).
- Increased intra-abdominal pressure (obesity, pregnancy).
- Delayed gastric emptying.
- Hiatal hernia.
- Dietary and lifestyle factors (spicy food, alcohol, caffeine, smoking).
- Impaired esophageal clearance and mucosal defense.

Pathophysiology (Flowchart):

LES Dysfunction / Transient Relaxation		
↓		
Reflux of Gastric Contents into Esophagus		
↓		
Exposure to Acid & Pepsin		
↓		
Mucosal Injury & Inflammation ↓		

Clinical Manifestations:

- Heartburn (burning sensation in chest).
- Regurgitation of food/sour liquid.
- Dysphagia (difficulty swallowing).
- Chronic cough, hoarseness, sore throat.
- Chest pain (non-cardiac).
- Complications: Esophagitis, Barrett's esophagus, Stricture.

Management:

Non-Pharmacological	Pharmacological	
- Lifestyle modification: weight loss, avoid late meals, e	ev Attet anciald: dibb ed i ello m/elie A votoid x right@ebsospers: f&adistidian	ei Fe madtidh