

GERD

Objectives:

- > How patient presents
- Risk factors
- Diagnosis
- > Update in management
- ➤ When to refer

[Color index : Important | Notes | Extra]

References: Medicine team 435.

Done By: Fahad Al-Abdullatif, Moath Baeshen, Khalid Al-Naeem,

Mohammed Al-Deghaither.

Revised By: Adel Al Shihri.



Clinical features :

- The major symptoms are:
 - 1. **Heartburn** and regurgitation, often provoked by bending, straining or lying down.
 - 2. 'Water brash', which is salivation due to reflex salivary glands stimulation as acid enters the gullet, is often present.
 - 3. Patient is often overweight.
 - 4. Waking at night by choking as refluxed fluid irritates the larynx.
 - 5. Odynophagia (pain during swallowing).
 - 6. Dysphagia is a complication of GERD which happens due to stricture formation or edema.
 - 7. **Atypical chest pain** which may be severe and can mimic angina, and may be due to reflux-induced esophageal spasm.
 - 8. Hoarseness ('acid laryngitis').
 - 9. Recurrent chest infections.
 - 10. Chronic cough.
 - 11. Asthma.
- The true relationship of these features to gastro-esophageal reflux disease remains unclear.

Risk factors:

1. Medical conditions:

- a. Obesity.
- b. Hiatus hernia.
- c. Systemic sclerosis (scleroderma).
- d. Ageing.
- e. Pregnancy.

2. Social:

- a. Large meals.
- b. Eating late at night (before bedtime).
- c. Fat, chocolate, coffee or alcohol ingestion.
- d. Cigarette smoking.

3. Medications:

- a. Calcium channel blockers (e.g.; nifedipine).
- b. Nitrates.
- c. Anticholinergics (e.g.; propantheline).
- d. NSAIDs (e.g.; aspirin, ibuprofen).



Diagnosis:

- Most Cases are diagnosed with good history.
- If you need to investigate make sure you exclude (Barrett's Esophagus, Hiatal hernia) using endoscopy.
- If young + NO alarming symptoms → empirical treatment may be appropriate without doing any investigations.

Investigations			
1- Endoscopy with biopsy	2- Barium study	3- Twenty-four-hour pH monitoring	4- Esophageal manometry
The test of choice but not necessary for typical	complications of GERD(strictures/ulcerations)	Performed in the lower esophagus	 used if a motility disorder is suspected
uncomplicated cases.		specific test (Gold Standard)	5- CXR
Indications: 1- Indicated if heartburn is refractory to treatment. 2- accompanied by dysphagia, odynophagia, or GI bleeding.			Usually normal unless it is complicated
 A biopsy should also be performed to assess changes in esophageal mucosa (Barrett's esophagus) 			



♦ Treatment:

- The main goals of treatment are to control symptoms and to prevent complications.
- Proton pump inhibitors are the most effective drugs for acid suppression and are the mainstay
 of treatment

Lifestyle Changes	 weight loss for overweight people. smoking cessation for tobacco smokers. head-of-bed-elevation. avoidance of late-night eating if nocturnal symptoms are present. Routine food eliminations (e.g chocolate, caffeine, alcohol, acidic and/or spicy foods). 	
Proton Pump Inhibitors	 Omeprazole - esomeprazole - rabeprazole - pantoprazole. Used at initial presentation and usually maintained. Treatment is continued for 8 weeks. After 8 weeks, it is discontinued. If the patient relapses, long-term PPI are indicated. Increase risk of clostridium (C.diff) gut infections. Reduces absorption of nutrients (Ca ,Mg). 	
H2 antagonist	 Ranitidine - famotidine - nizatidine - cimetidine. Less effective than PPIs. Used as adjunct to PPIs if nocturnal symptoms are present. 	
Surgery	 Laparoscopic Nissen, Toupet (270º) or anterior (180º) fundoplications. For people with a good response to PPIs but who do not wish to take long-term medical treatment (e.g., side effects or non-adherence). Risk of recurrence is 17.7%. Risk factors for reflux recurrence included: female sex, older age, and presence of comorbid conditions. 	
❖ Acute GERD: PPI + Lifestyle changes.		

- Patients who present with complicated or atypical GERD (e.g., dysphagia or evidence of GI bleeding) usually have must be referred for immediate endoscopy.
- Those above 40 years or symptoms last more than 5 years usually do an endoscopy.

Still ongoing continue PPI. Surgery is the second line.
Ongoing with nocturnal symptoms add H2 antagonists.