

Benign Esophageal Diseases

Dr.Sami Alnassar MD,
FRCSC.FCCP

Introduction

- At the end of this Presentation , you will be able to :
 - Understand the history related to common esophageal diseases such as GERD
 - Understand the symptoms and signs of esophageal perforation
 - Understand the symptoms and signs of esophageal motility disorder

Case 1

- 50 years old Male Presented to you in the clinic with history of Heartburn and Hoarseness.
- He is obese
- smoker
- What else in the history ?

Clinical Presentations of GERD

■ Classic GERD

- Substernal burning and or regurgitation
- Postprandial
- Aggravated by change of position
- Prompt relief by antacid

Extraesophageal Manifestations of GERD

Pulmonary

Asthma

Aspiration pneumonia

Chronic bronchitis

Pulmonary fibrosis

Other

Chest pain

Dental erosion

ENT

Hoarseness

Laryngitis

Pharyngitis

Chronic cough

Globus sensation

Dysphonia

Sinusitis

Subglottic stenosis

Laryngeal cancer

Clinical Presentations of GERD

■ Symptoms of Complicated GERD :

■ Dysphagia

- Difficulty swallowing: food sticks or hangs up

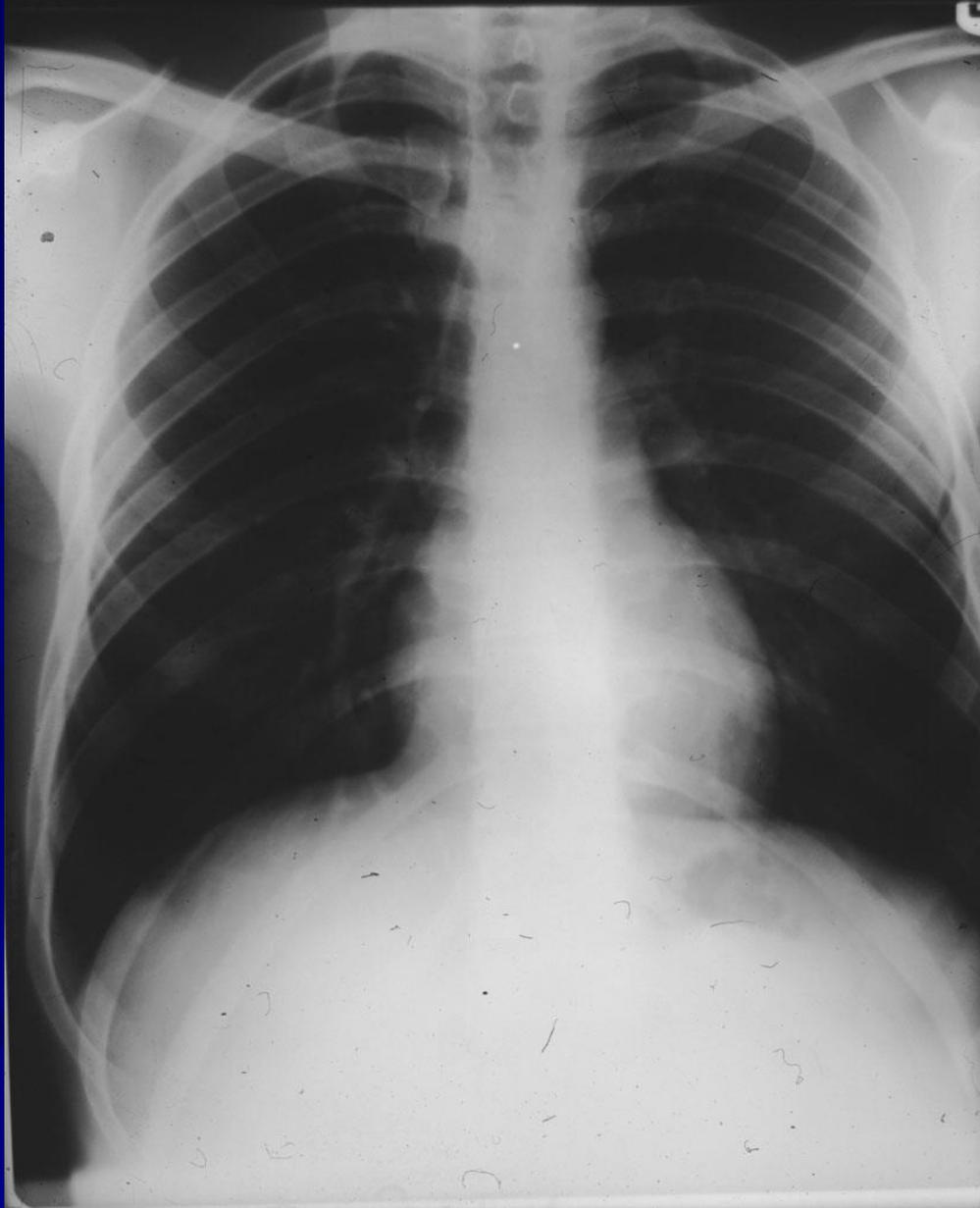
■ Odynophagia

- Retrosternal pain with swallowing

■ Bleeding

Case 1

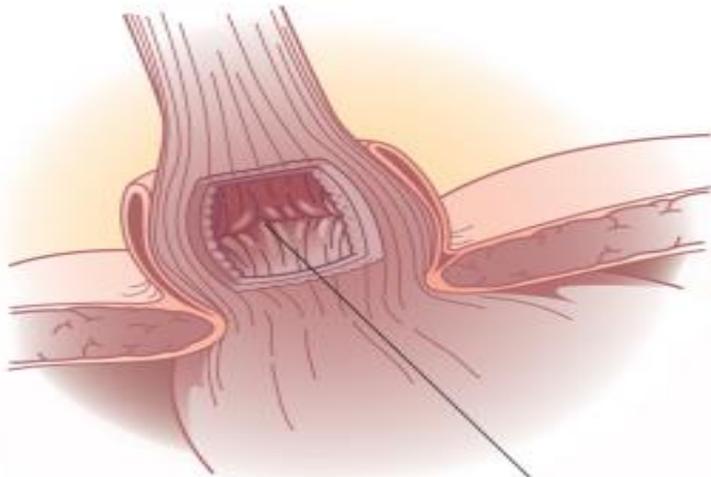
- Examination was unremarkable
- What is your next step in the management of this patient ?



Barium Swallow

- Barium swallow report :
 - No stricture or tumor
 - Small hiatus hernia
 - Evidence of reflux of the contrast

- What is the types of the hiatus hernia ?



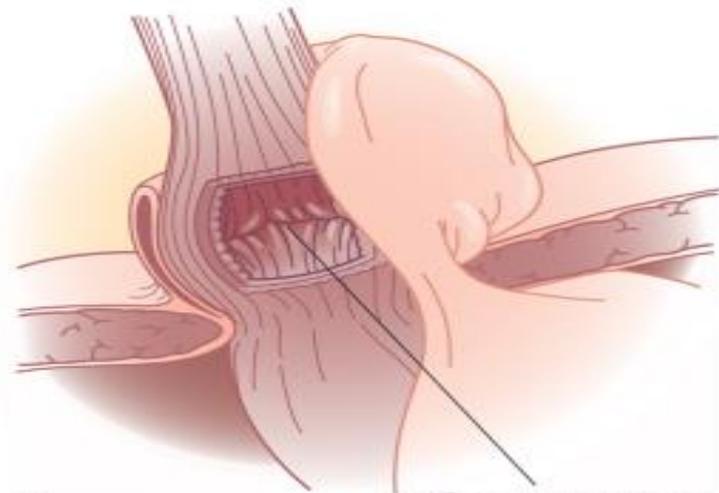
A

GE junction



B

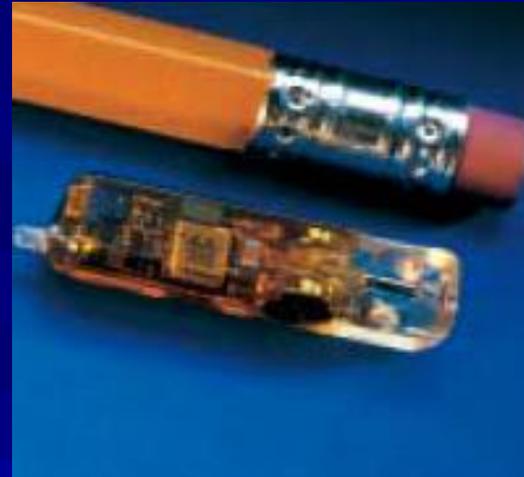
GE junction



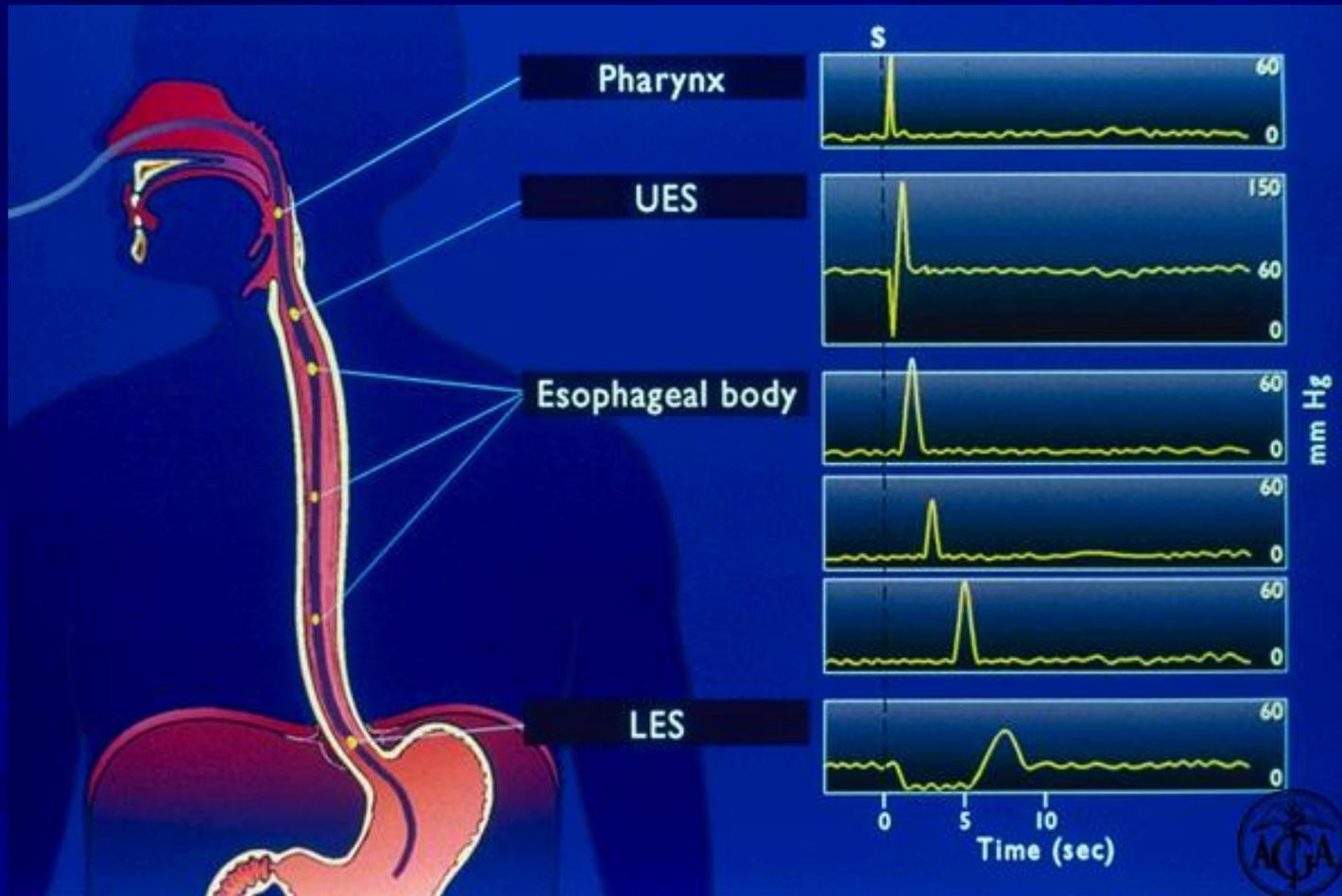
C

GE junction

Esophageal pH Monitoring



Esophageal Manometry



Endoscopy



Case 1

- Biopsy was done
- Pathology report :
 - esophagitis with intestinal, columnar epithelium replaces the stratified squamous epithelium (metaplasia) consistent with Barrett's Esophagus,
 - No evidence of dysplasia
- What is next ?

Treatment

■ Lifestyle Modifications

- Elevate head of bed 4-6 inches
- Avoid eating within 2-3 hours of bedtime
- Lose weight if overweight
- Stop smoking
- Modify diet
 - Eat more frequent but smaller meals
 - Avoid fatty/fried food, peppermint, chocolate, alcohol, carbonated beverages, coffee and tea
- OTC medications prn

Acid Suppression Therapy for GERD

H₂-Receptor Antagonists (H₂RAs)

Cimetidine (Tagamet®)
Ranitidine (Zantac®)
Famotidine (Pepcid®)
Nizatidine (Axid®)

Proton Pump Inhibitors (PPIs)

Omeprazole (Prilosec®)
Lansoprazole
(Prevacid®)
Rabeprazole (Aciphex®)
Pantoprazole (Protonix®)
Esomeprazole (Nexium®)

Anti-Reflux Surgery

■ Indication for Surgery :

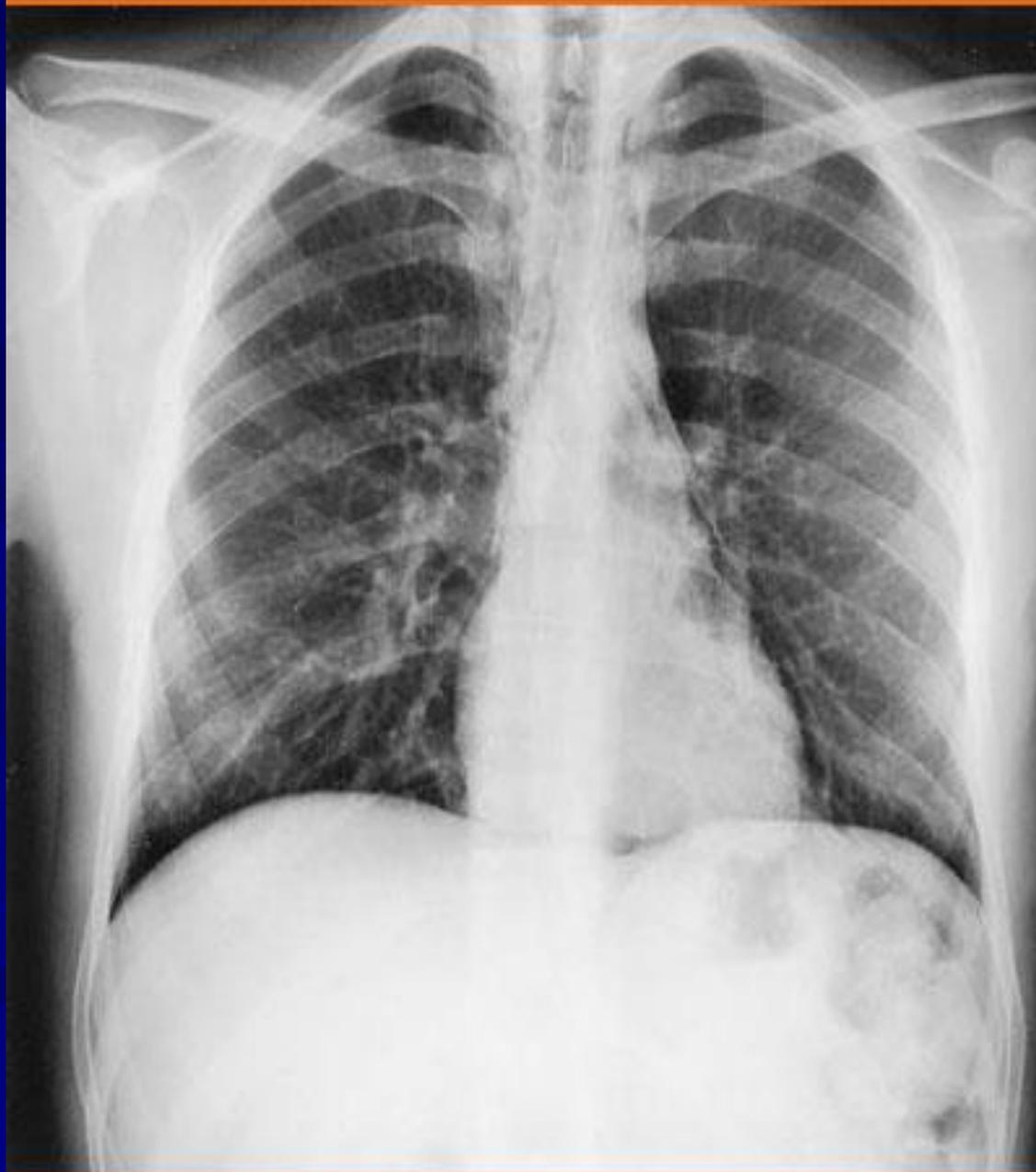
- have failed medical management
- opt for surgery despite successful medical management (due to life style considerations including age, time or expense of medications, etc)
- have complications of GERD (e.g. Barrett's esophagus; grade III or IV esophagitis)
- have medical complications attributable to a large hiatal hernia. (e.g. bleeding, dysphagia)
- have "atypical" symptoms (asthma, hoarseness, cough, chest pain, aspiration) and reflux documented on 24 hour pH monitoring

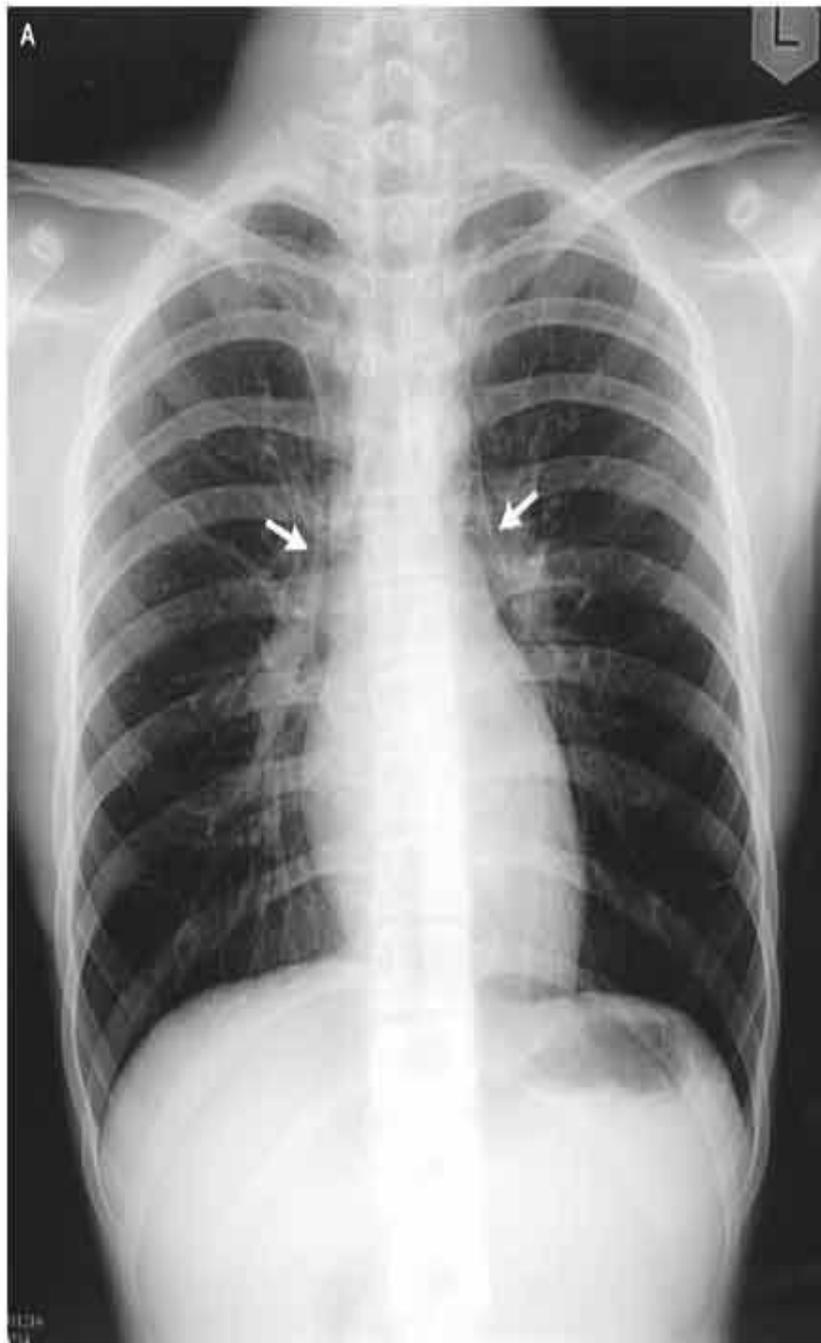
Case 1

- you advise the patient t:
 - Reduce wieght
 - Quit smoking
- Started the patient on
 - Nexium 40 mg od
- Advise patient to have
 - Follow up endoscopy

Case 1

- 3 months later , you did endoscopy for the patient , 6 hour post endoscopy patient start to complain of :
 - Chest pain
 - Fever
- What else in the history ?
- What is your management ?







Perforation and
extravasation

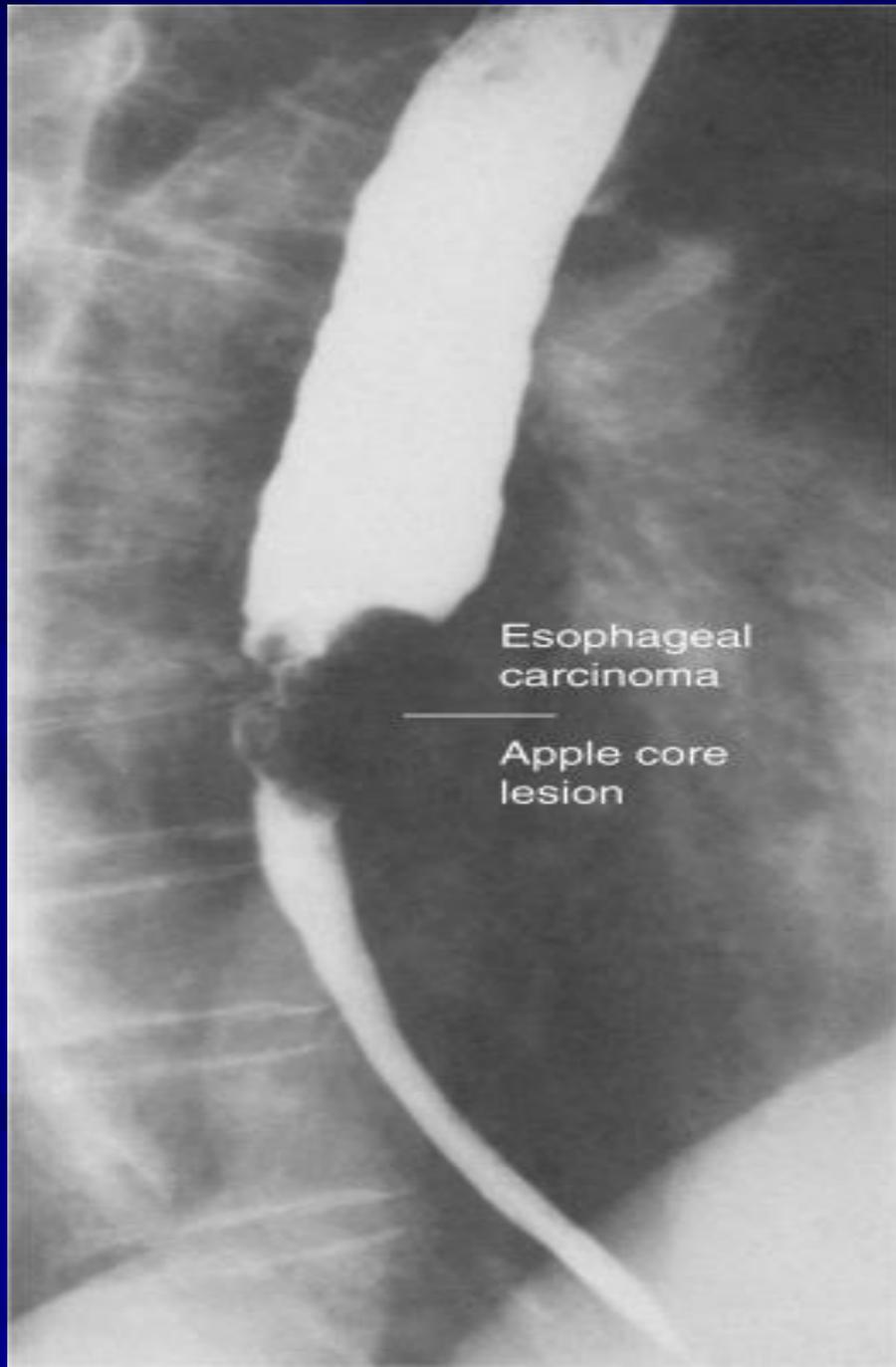


Treatment

- **IV fluids and broad-spectrum antibiotics are started immediately, and the patient is monitored in an ICU**
- **The patient is kept NPO, and nutritional access needs are assessed**
- **Patient improved and he was discharged home**

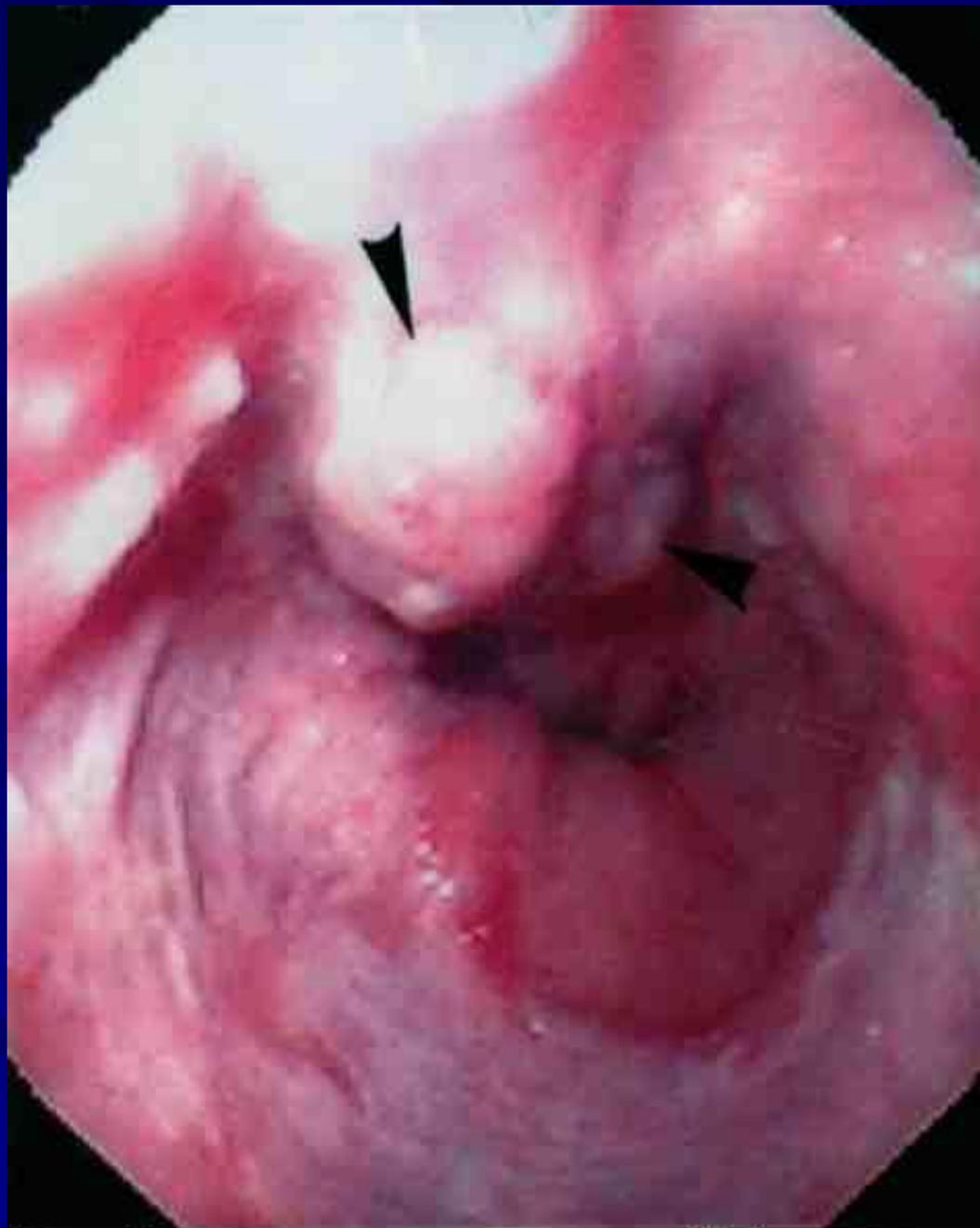
Case 1

- 6 years later , he presented to your clinic complaining of :
- Dysphagia
- Weight loss
- What else in the history ?
- What is your differentials?
- How you going to manage this patient?



Esophageal
carcinoma

Apple core
lesion



Case 1

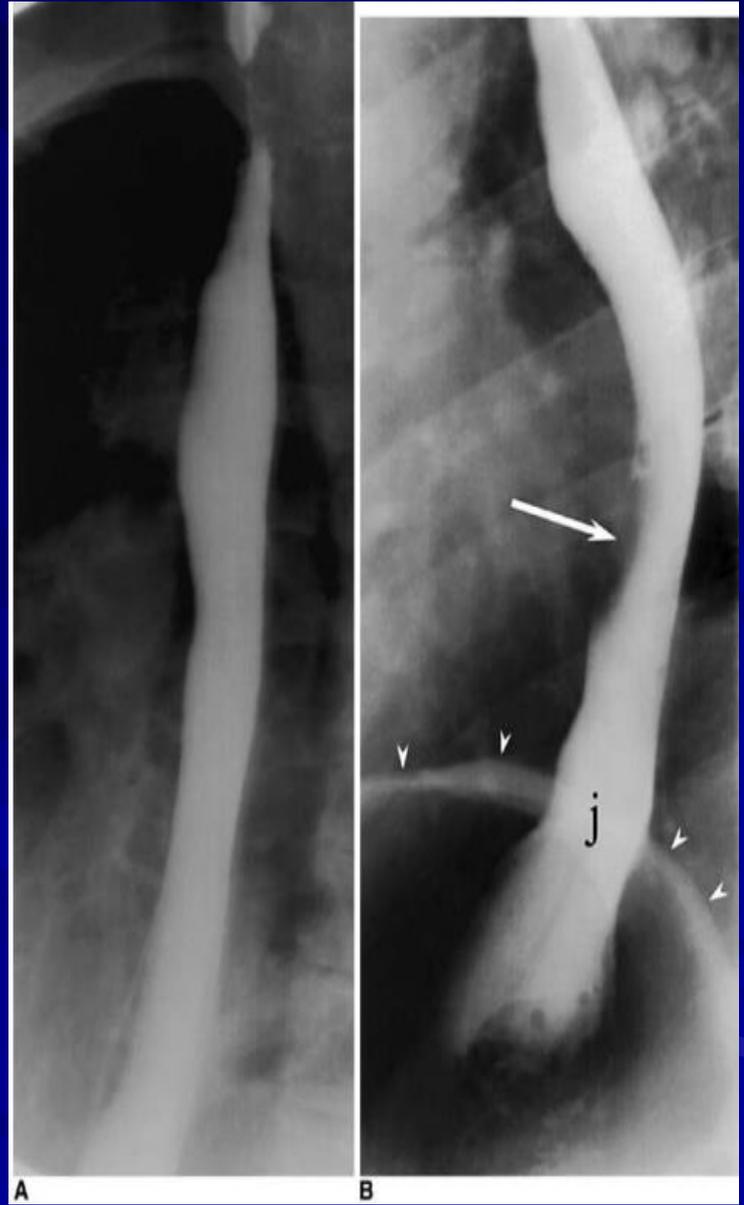
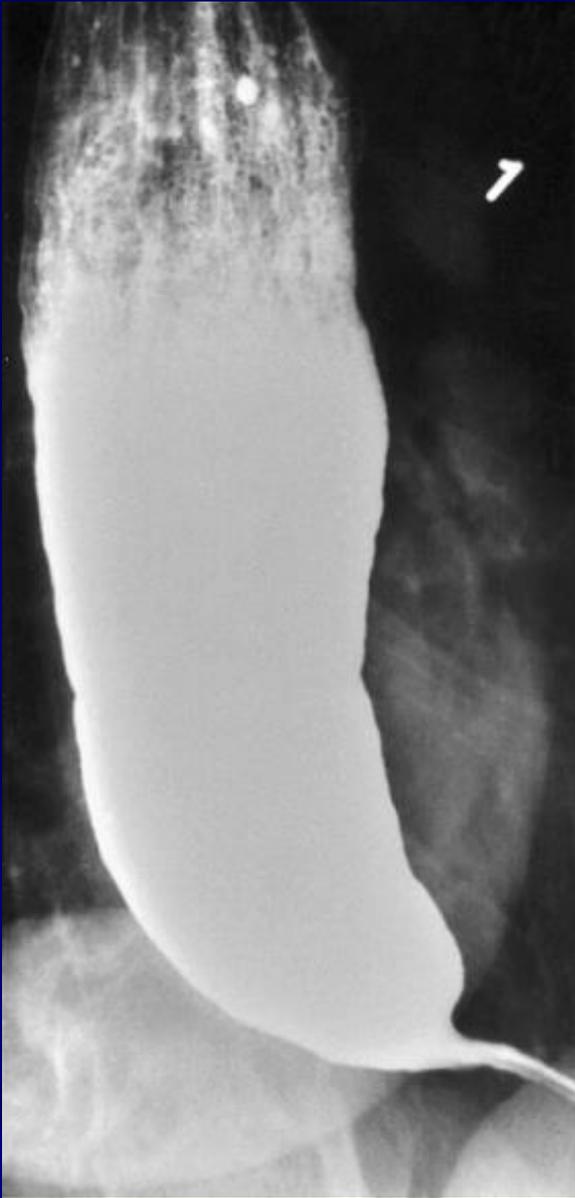
- The biopsy from the endoscopy revealed :
 - Adenocarcinoma
- What is your treatment options ?

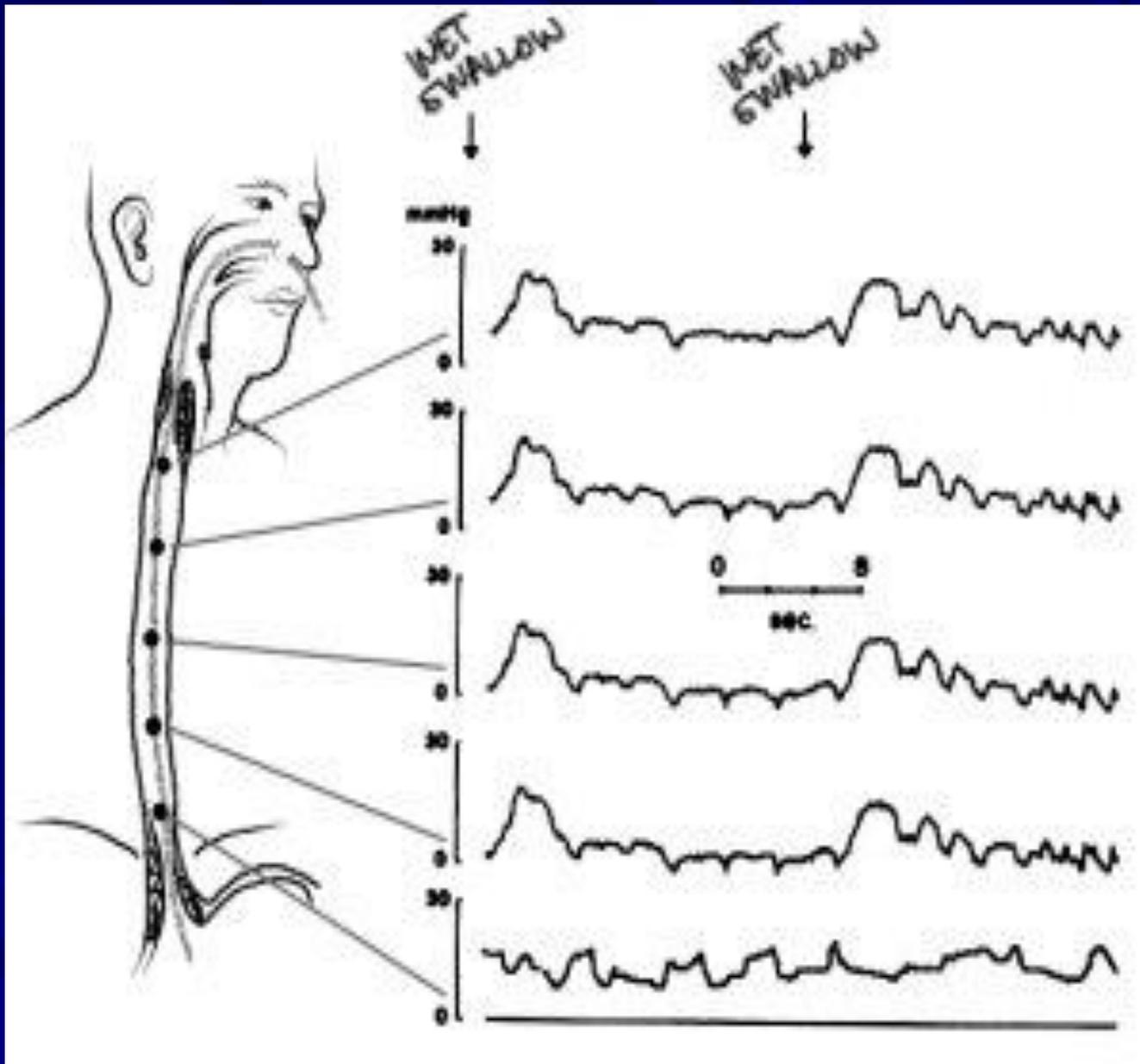
Treatment

- Chemotherapy
- Radiation therapy
- Chemo-radiotherapy
- Surgical resection

Case 2

- 24 years old , healthy presented to your clinic complaining of :
 - Dysphagia
- How you going to manage this patient?





Case 2

- His manometry consistent with Achalasia
- Endoscopy showed :
 - Dilated esophagus
 - Retained food particles
- How you going to treat this patient ?

Case 2

■ Treatment options :

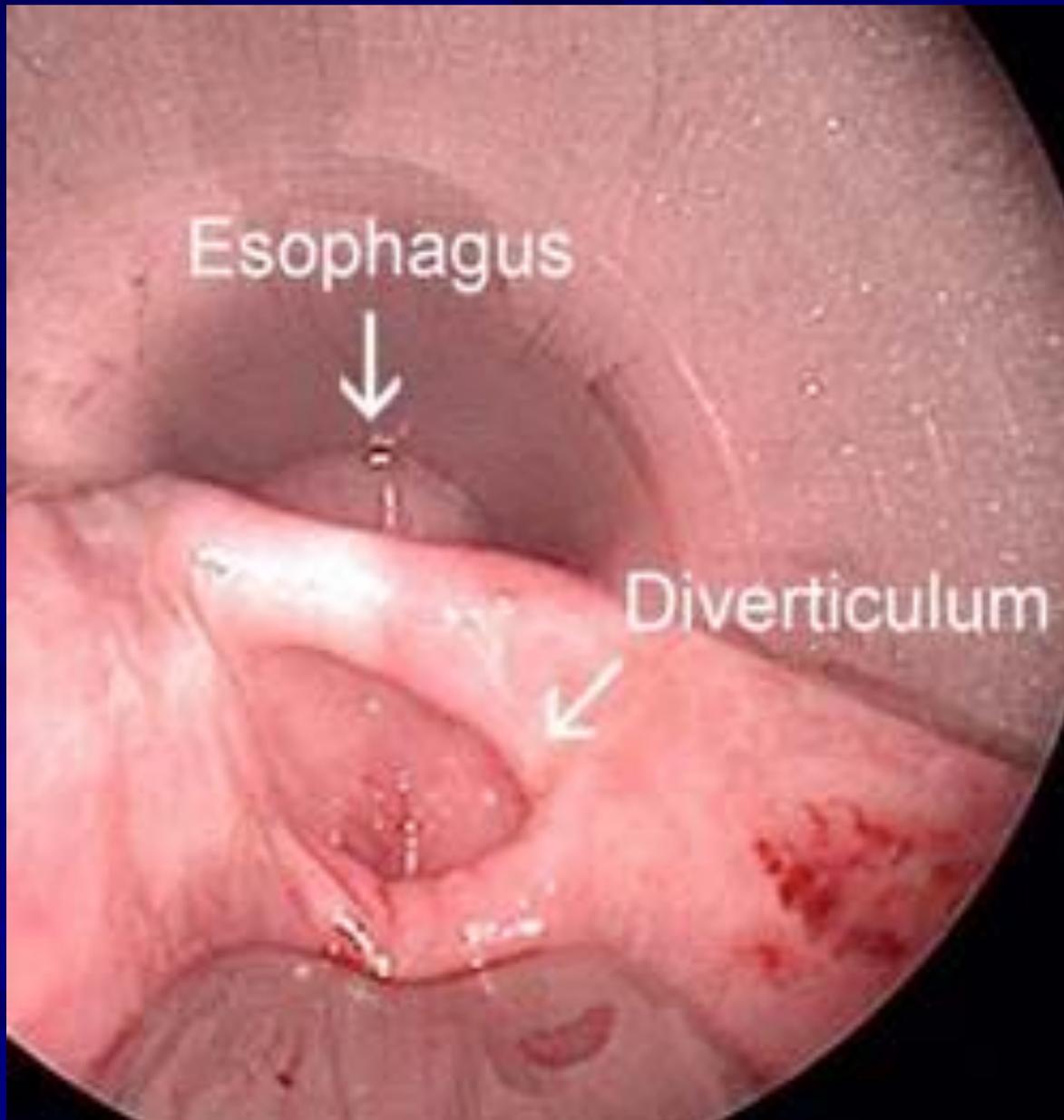
- Medical therapy
- Botulinum toxin injection
- Pneumatic dilation
- Surgical myotomy
- Which option you will advise the patient to choose ?

Case 3

- 70 years old male , his wife bring him to your clinic Because :
 - Bad breath
 - Chronic cough especially after eating
- How you going to manage this patient ?



Neck of diverticulum



Treatment

- **Surgical or endoscopic repair of a Zenker's diverticulum is the gold standard of treatment**
- **Open repair involve :**
 - **myotomy of the proximal and distal thyropharyngeus and cricopharyngeus muscles**
 - **diverticulectomy or diverticulopexy are performed through an incision in the left neck**

Treatment

- An alternative to open surgical repair is the endoscopic Dohlman procedure
- Endoscopic division of the common wall between the esophagus and the diverticulum using a laser or stapler has also been successful

Case 3

- **What is the cause of the Esophageal Diverticula ?**
- **What is the different types of the Esophageal Diverticula ?**
- **And what is the most common sites ?**

Esophageal Diverticula

- **most diverticula are a result of a primary motor disturbance or an abnormality of the UES or LES**
- **can occur in several places along the esophagus**
- **The three most common sites of occurrence are pharyngoesophageal (Zenker's), parabronchial (midesophageal), and epiphrenic**

Esophageal Diverticula

- **Zenker's diverticulum and an epiphrenic diverticulum fall under the category of false, pulsion diverticula.**
- **Traction, or true, diverticula result from external inflammatory mediastinal lymph nodes adhering to the esophagus**

