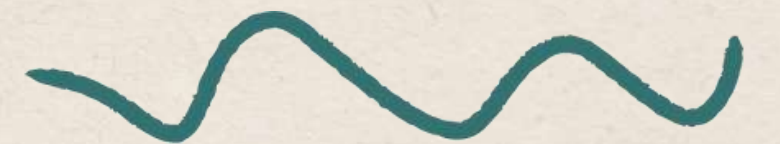


ee



Dysphagia



Introduction

Inability to swallow is caused by a problem with the strength or coordination of the muscles required to move material from the mouth to the stomach or by a fixed obstruction somewhere between the mouth and stomach

Occasionally patients may have a combination of the two processes

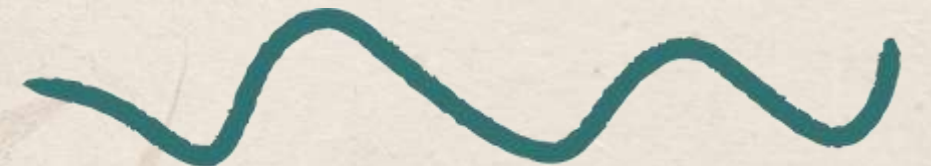


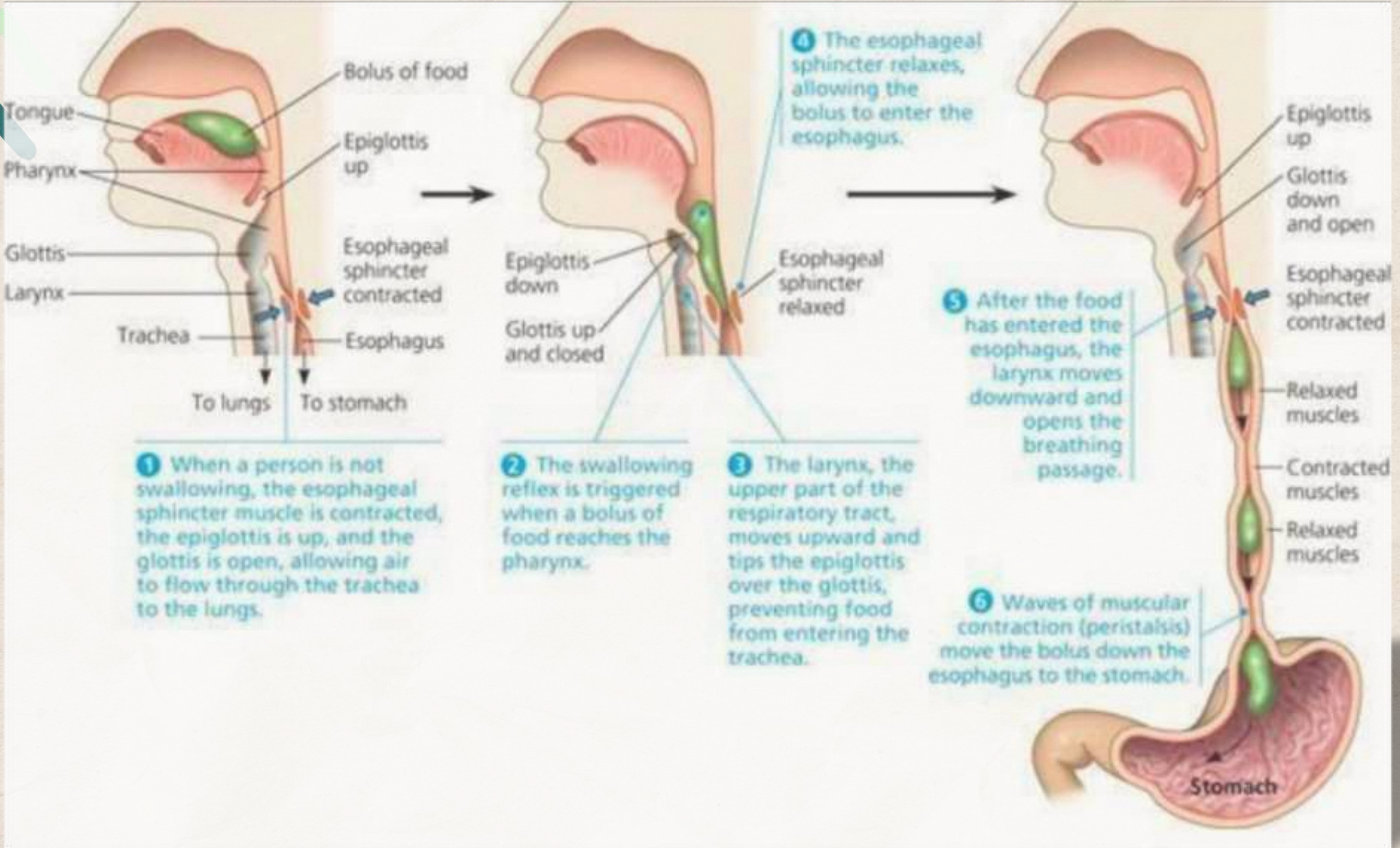
Swallowing

complex neuromuscular activities

involving over 30 muscles

food passage from the oral cavity into stomach and protecting material from entering the airway.







oral

Pharyngeal

Esophageal



Oral Phase

1

the oral preparatory stage:

chewed
mixed with saliva

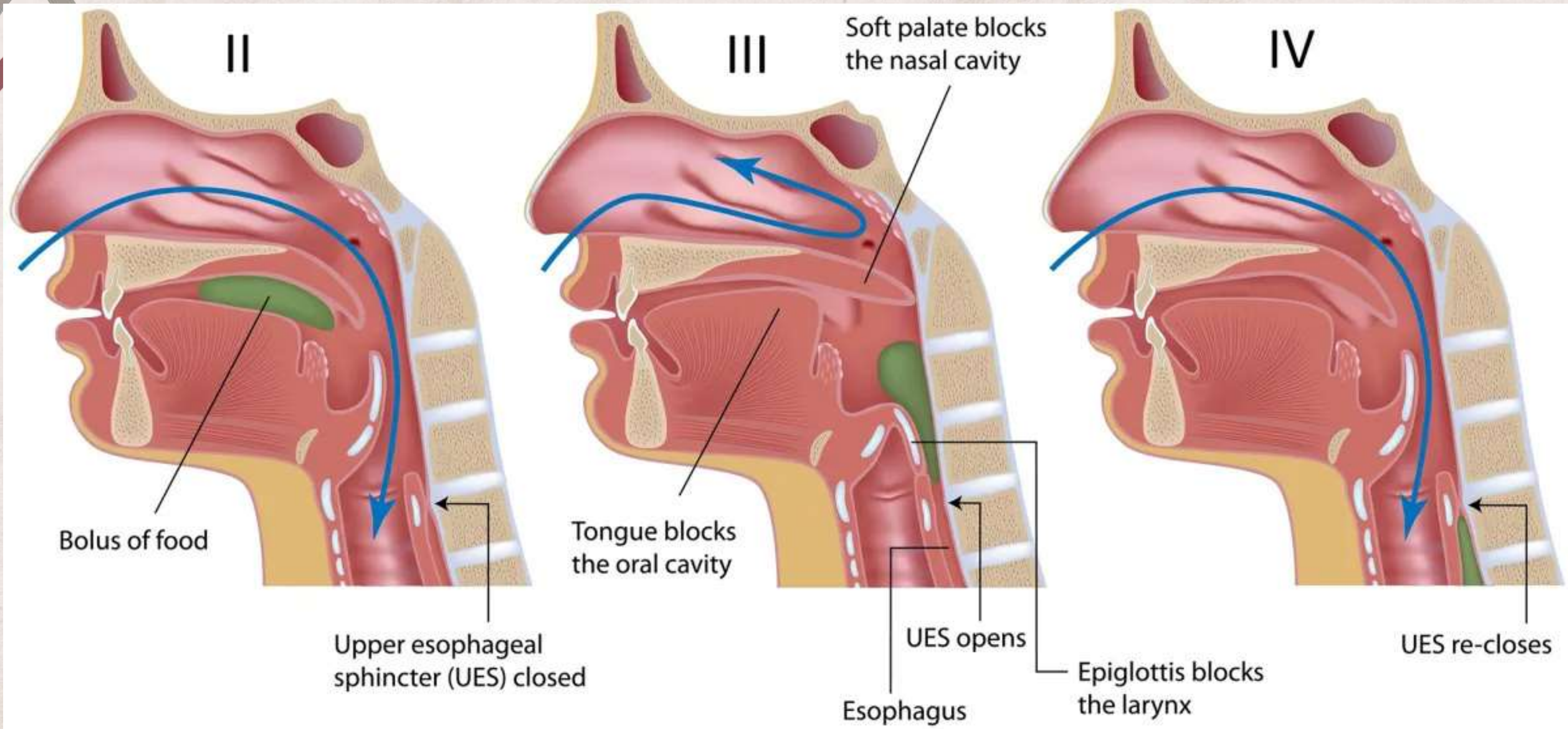
2

the oral stage:

voluntary phase
tongue

Pharyngeal Phase

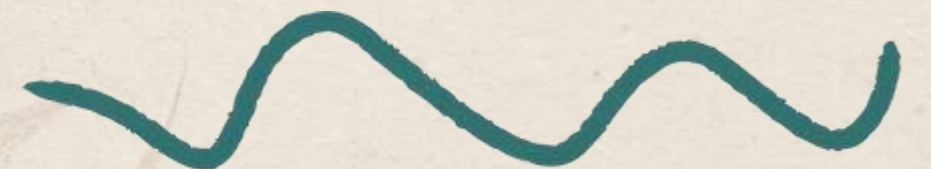
.occurring within a second
begins with the initiation of a voluntary
through the pharynx and UES to the esophagus
bolus triggers the involuntary swallowing reflex.
airway protection





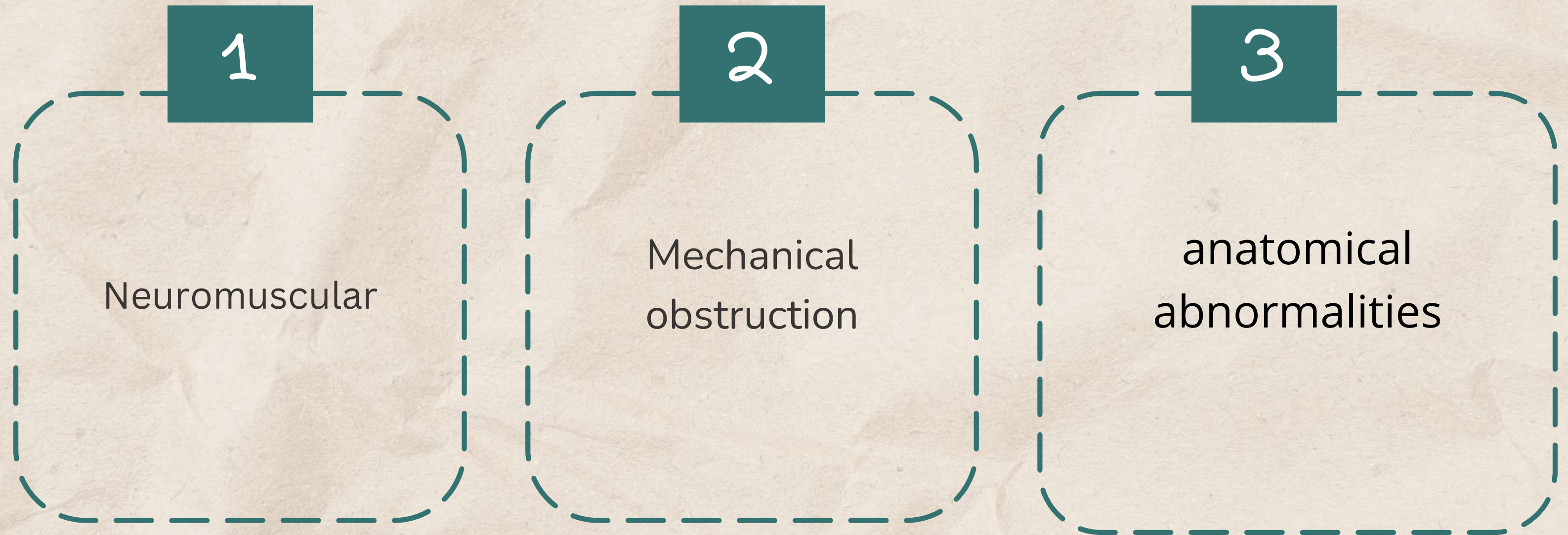
Oropharyngeal Dysphagia

difficulty initiating a swallow
coughing or “choking
liquids are frequently more difficult than solids
patient often localizes the sensation





Causes



OROPHARYNGEAL DYSPHAGIA: CAUSES & TREATMENTS

Summarized from Table 3.1, Mayo Clinic

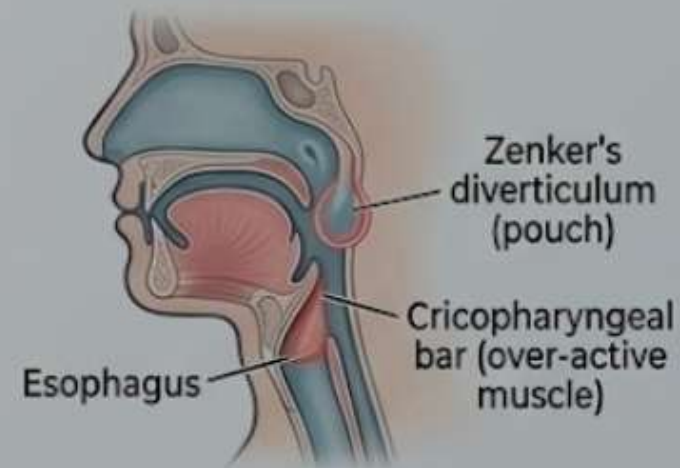
NEUROMUSCULAR & NEUROLOGICAL DISORDERS



CAUSES

- Stroke (Cerebrovascular Accident)
- Amyotrophic Lateral Sclerosis (ALS)
- Parkinson's disease
- Multiple Sclerosis (MS)

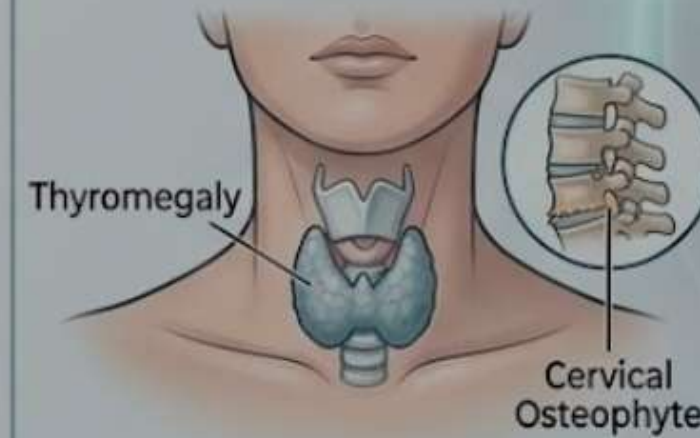
MECHANICAL OBSTRUCTION



CAUSES

- Zenker diverticulum
- Cricopharyngeal bar

STRUCTURAL ISSUES



CAUSES

- Thyromegaly
- Cervical osteophyte



TREATMENT: SWALLOWING REHABILITATION & MEDICAL CARE

- Swallowing exercises & specialized therapy
- Medical management of underlying disorders (e.g., medication for Parkinson's)



TREATMENT: SPECIALIZED PROCEDURES

- Bougie dilatation
- Botulinum Toxin injection
- Cricopharyngeal Myotomy (simplified surgery icon)



TREATMENT: MEDICAL & SURGICAL OPTIONS

- Medical treatment (for underlying conditions)
- Surgery (for severe cases)



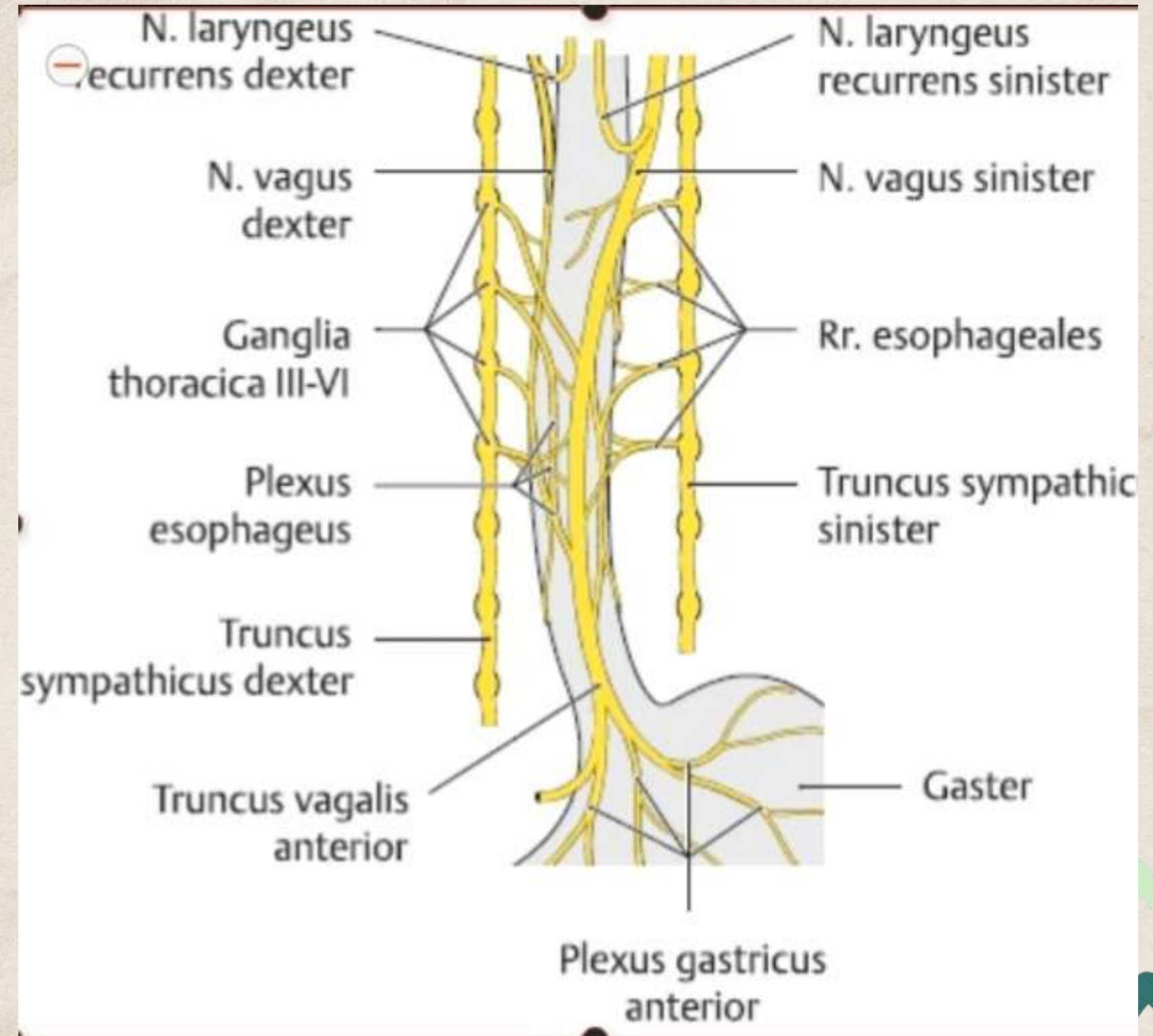
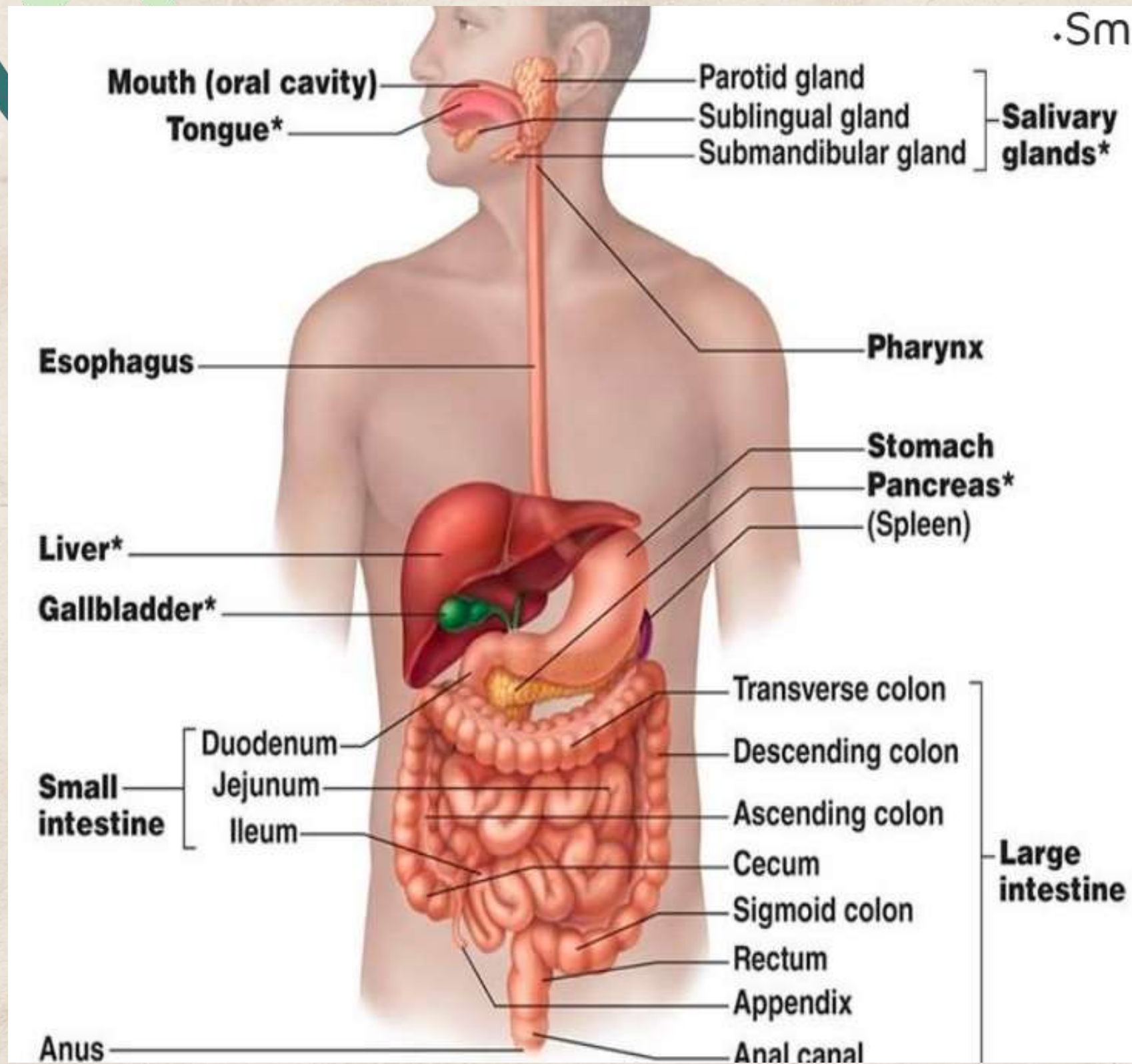
Esophageal Phase

from the lower part of the UES to the lower esophageal sphincter
(LES)

tensioned at rest to prevent regurgitation from the stomach.

It relaxes during a swallow



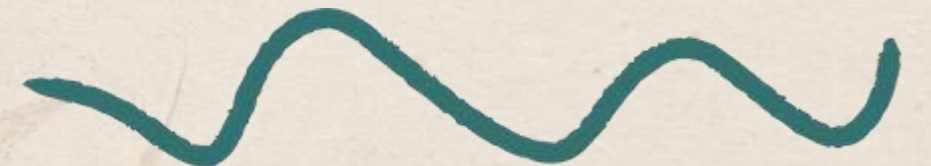




What type of food or liquid causes symptoms?

Is the dysphagia intermittent or progressive ?

Does the patient have heartburn?



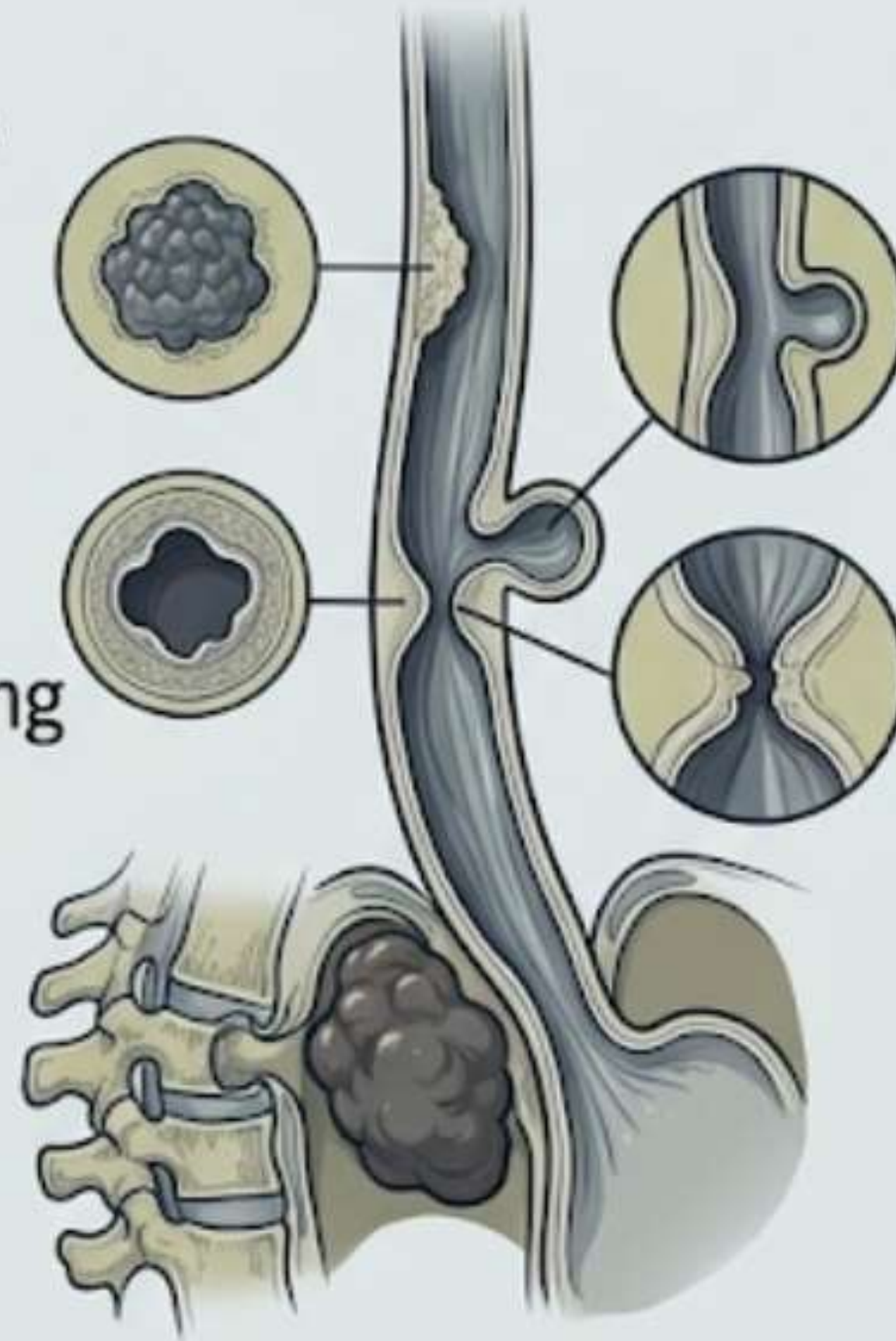
STRUCTURAL (MECHANICAL) DISORDERS

Intrinsic

- ◆ Carcinoma and benign tumors
- ◆ Diverticula
- ◆ Eosinophilic esophagitis
- ◆ Esophageal rings and webs (other than Schatzki ring)
- ◆ Foreign body
- ◆ Lower esophageal (Schatzki ring)
- ◆ Medication-induced stricture
- ◆ Peptic stricture

Extrinsic

- ◆ Mediastinal mass
- ◆ Spinal osteophytes
- ◆ Vascular compression



NEUROMUSCULAR (MOTILITY) DISORDERS

Primary

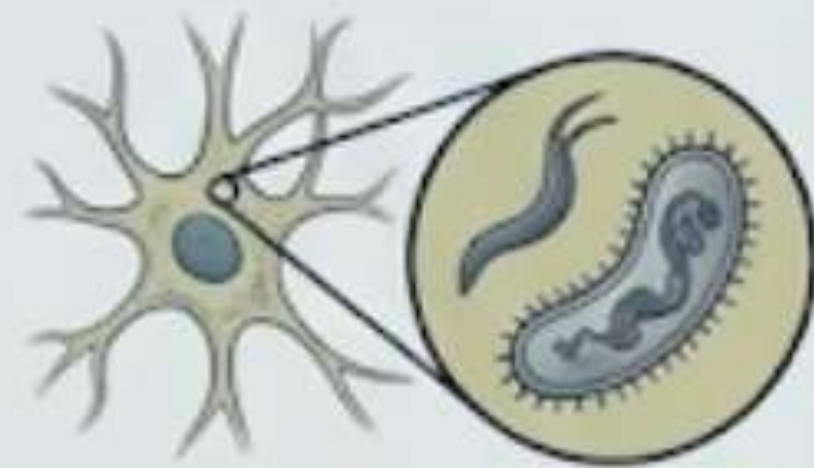
- ◆ Achalasia
- ◆ Distal esophageal spasm
- ◆ Hypercontractile (jackhammer) esophagus
- ◆ Hypertensive LES
- ◆ Nutcracker (high-pressure) esophagus
- ◆ Other peristaltic abnormalities*



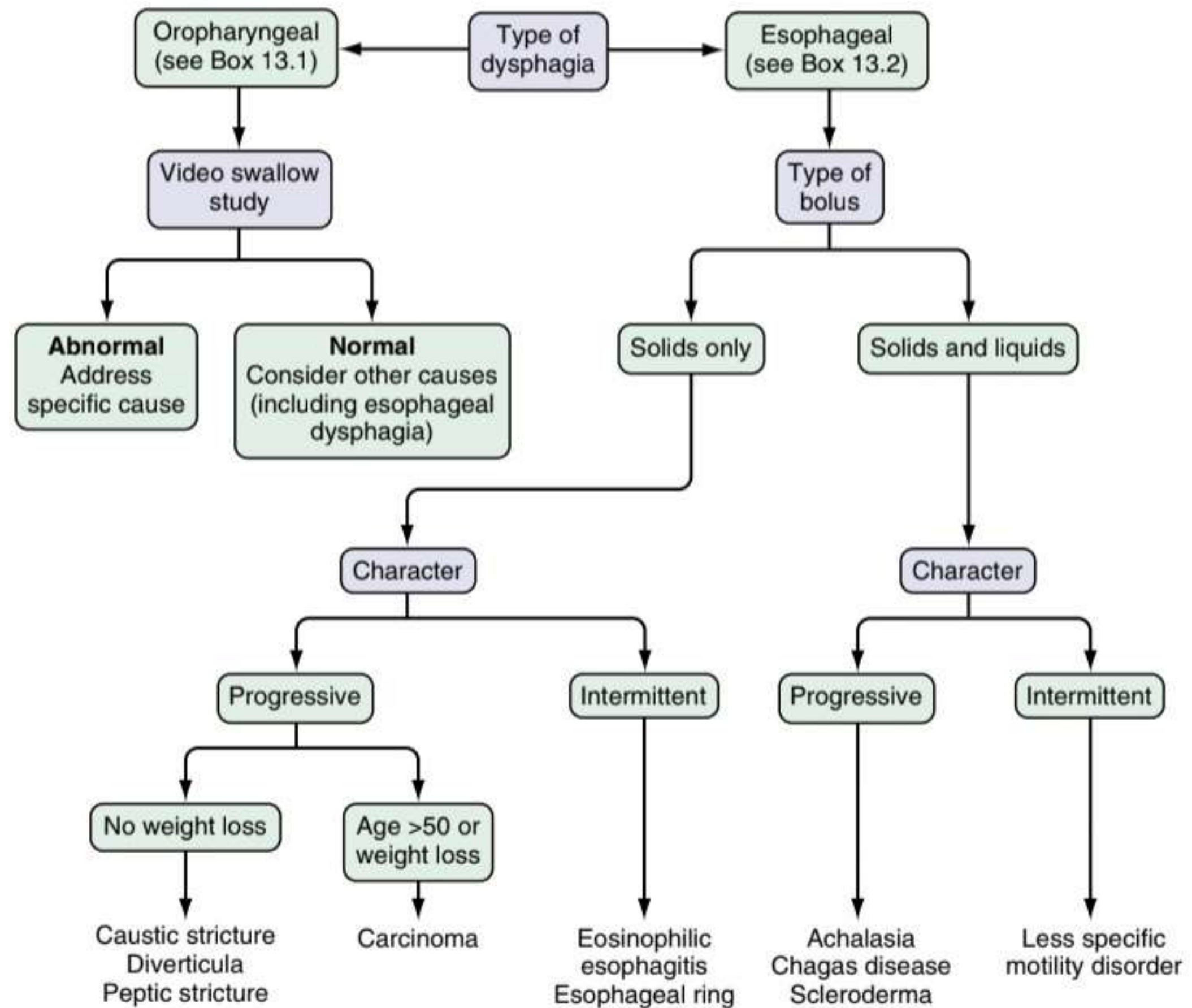
Uncoordinated peristalsis

Secondary

- ◆ Chagas disease
- ◆ Reflux-related dysmotility
- ◆ Scleroderma and other rheumatologic disorders

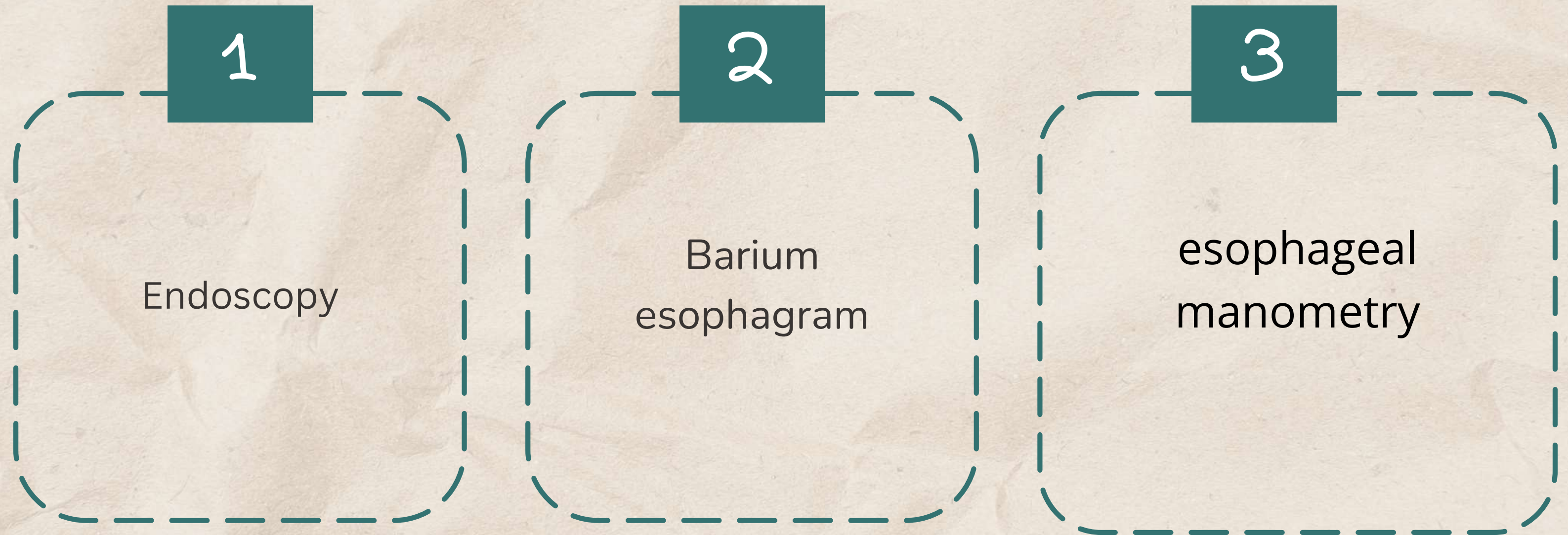


*Other peristaltic abnormalities

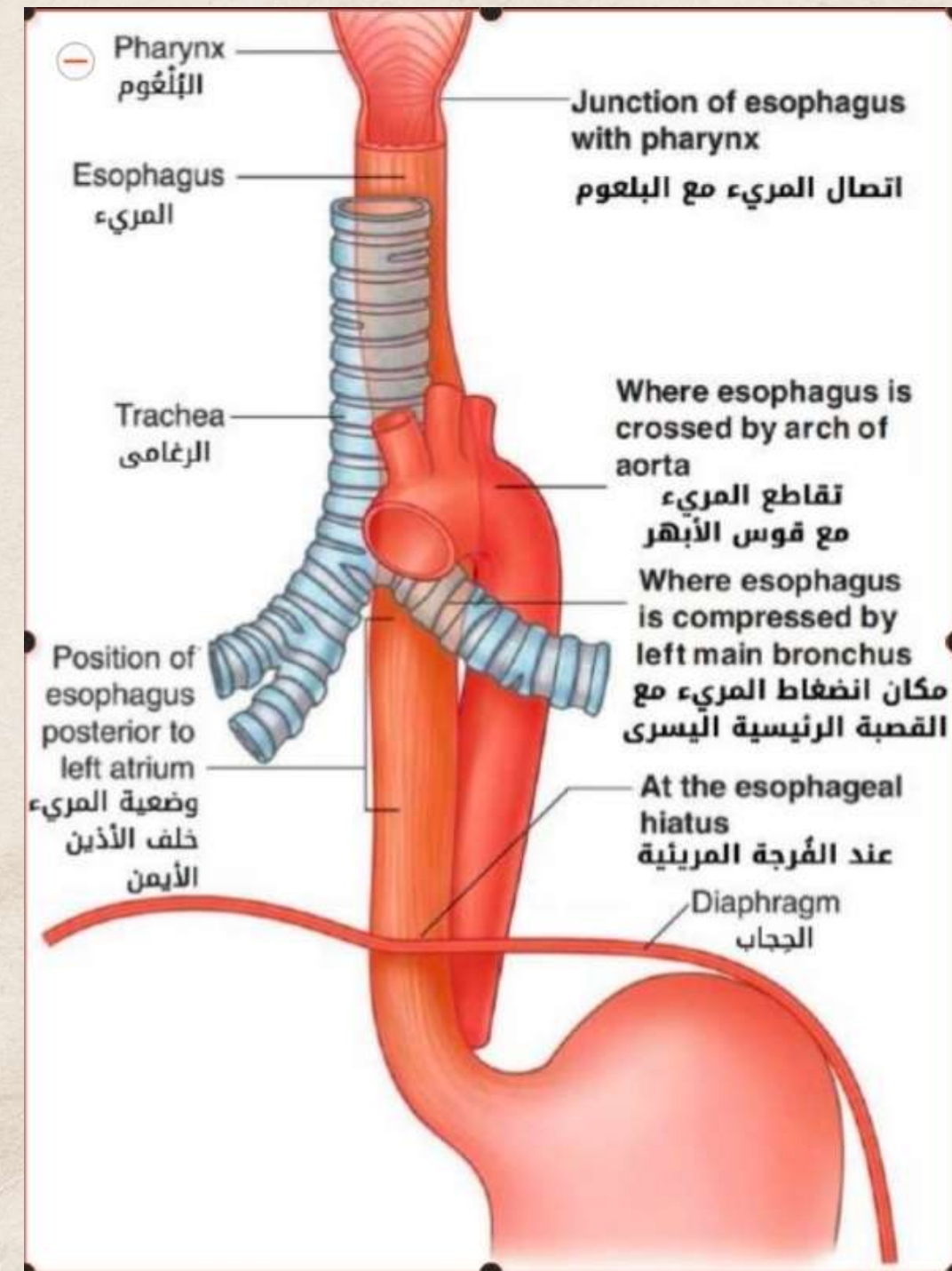


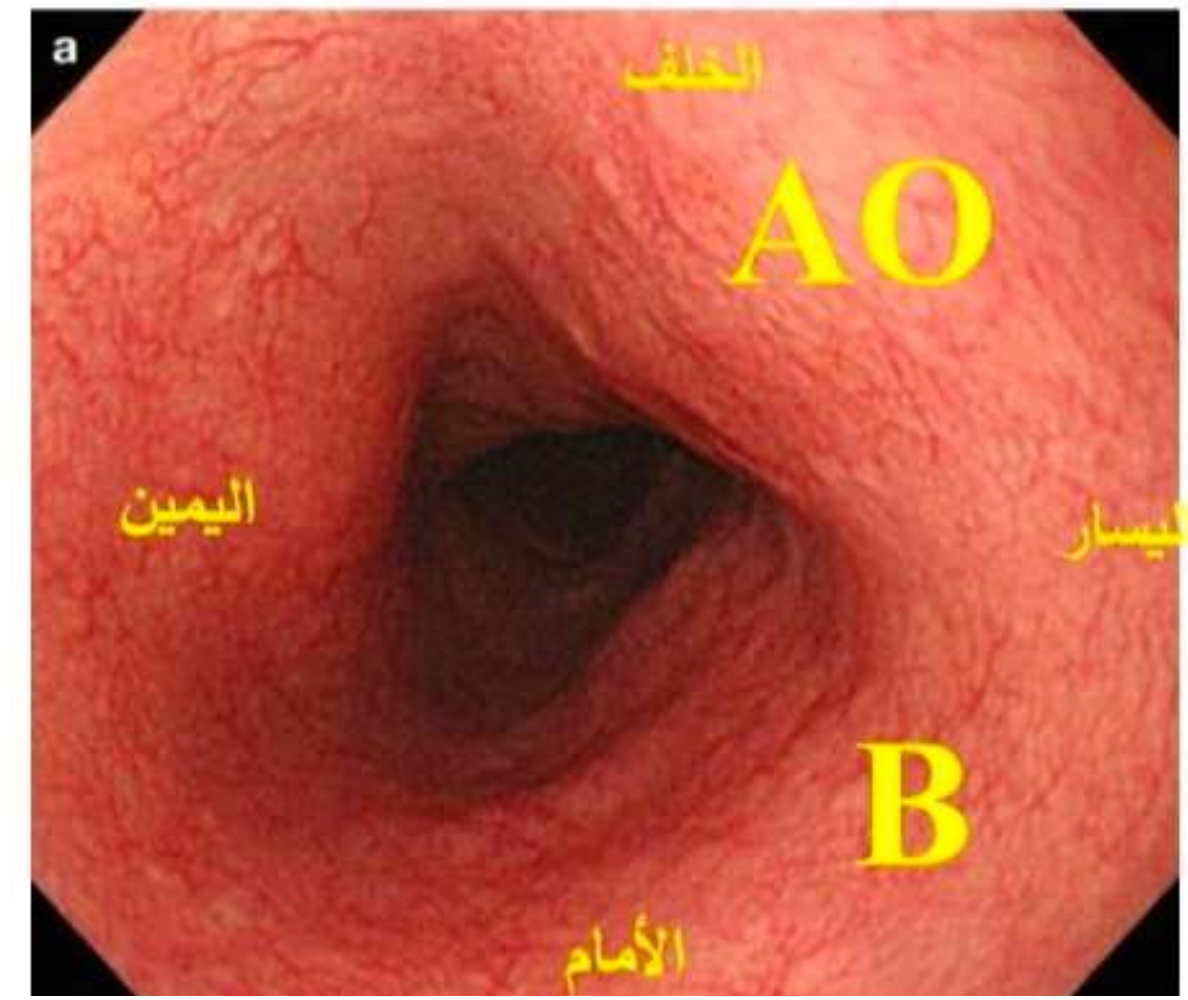
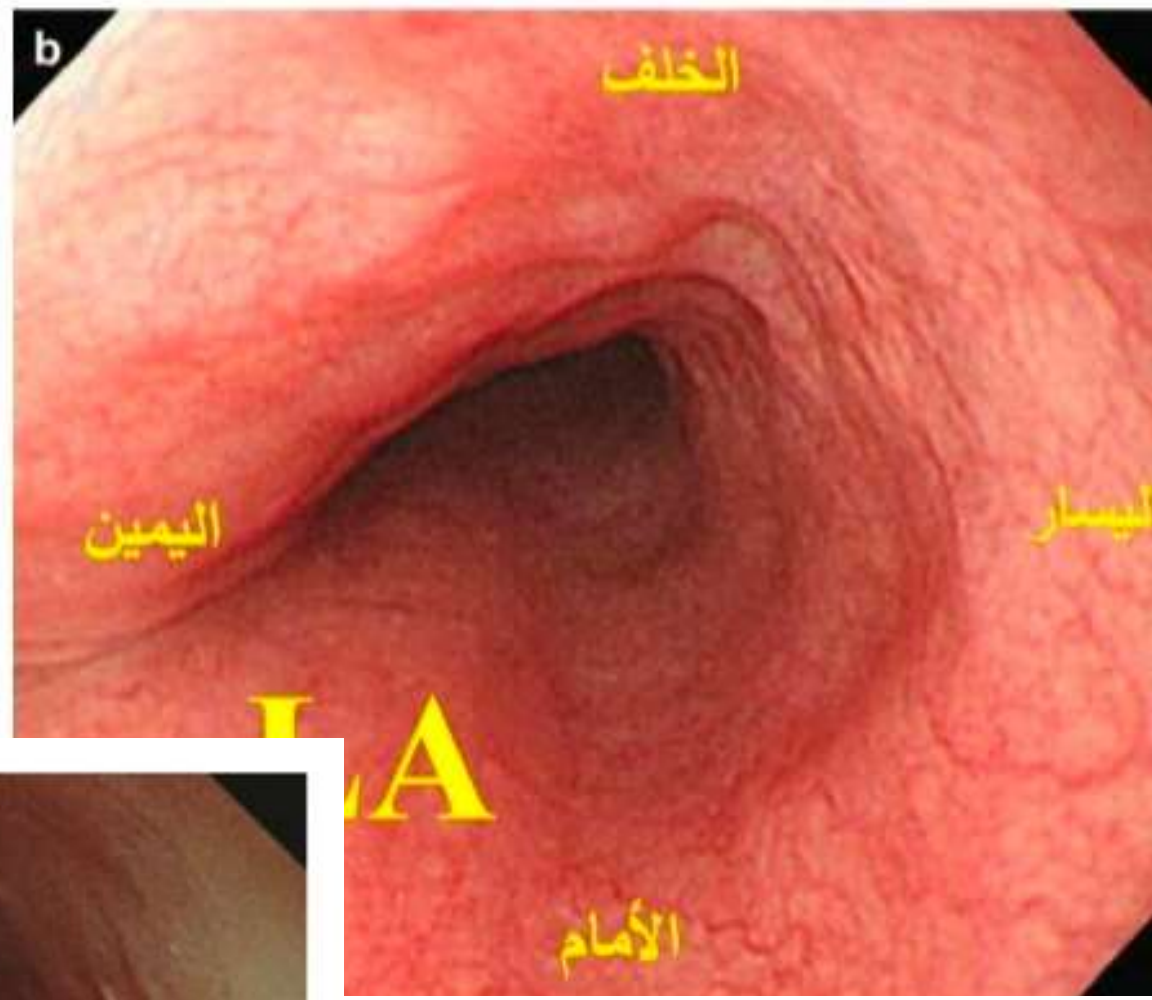


Diagnosis

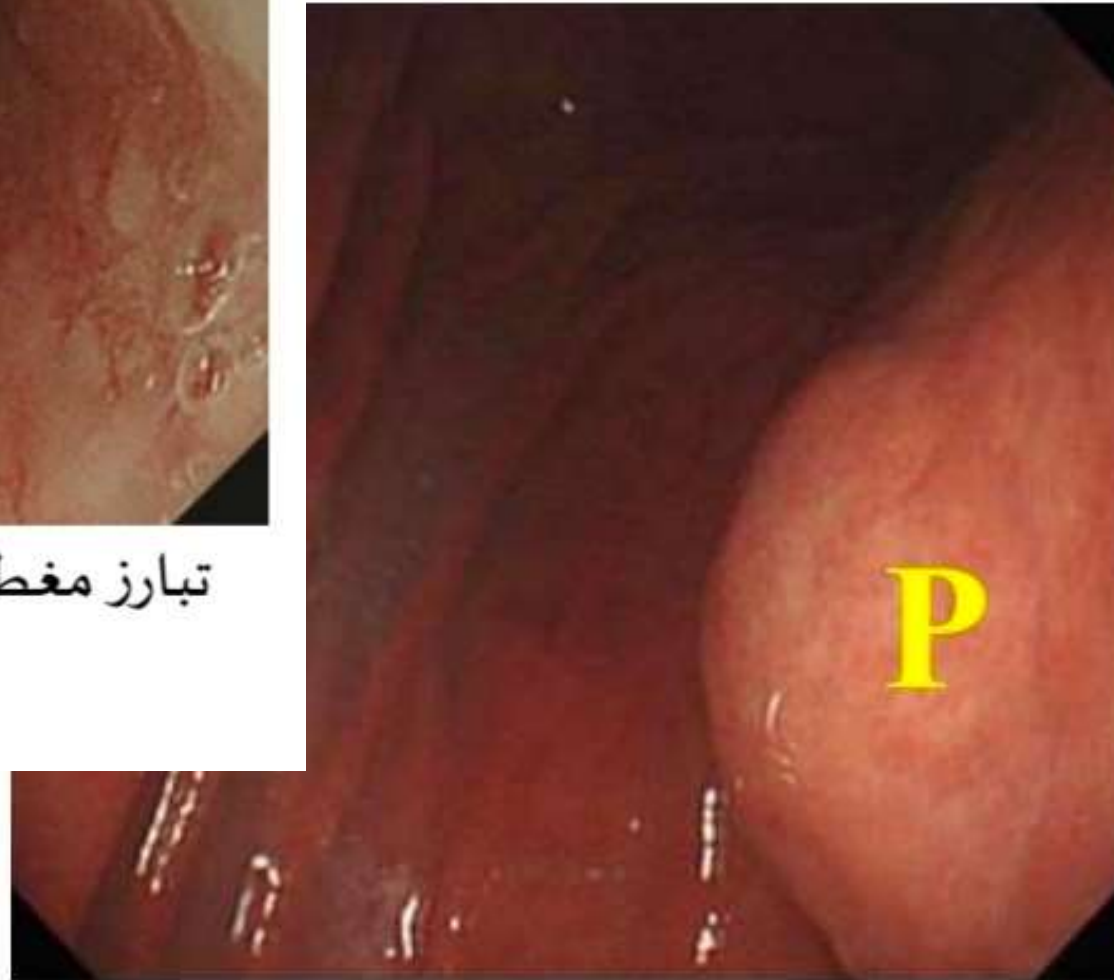


Endoscopy

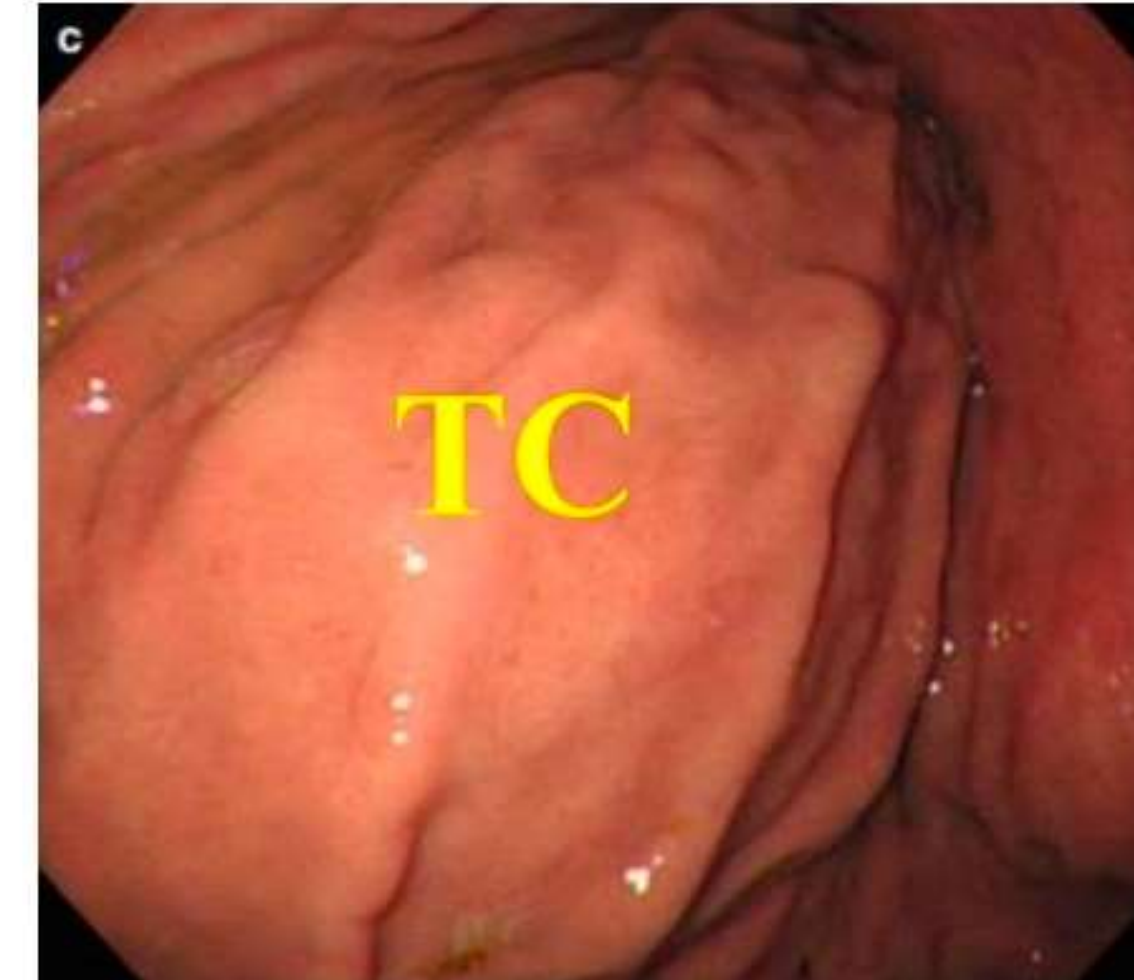




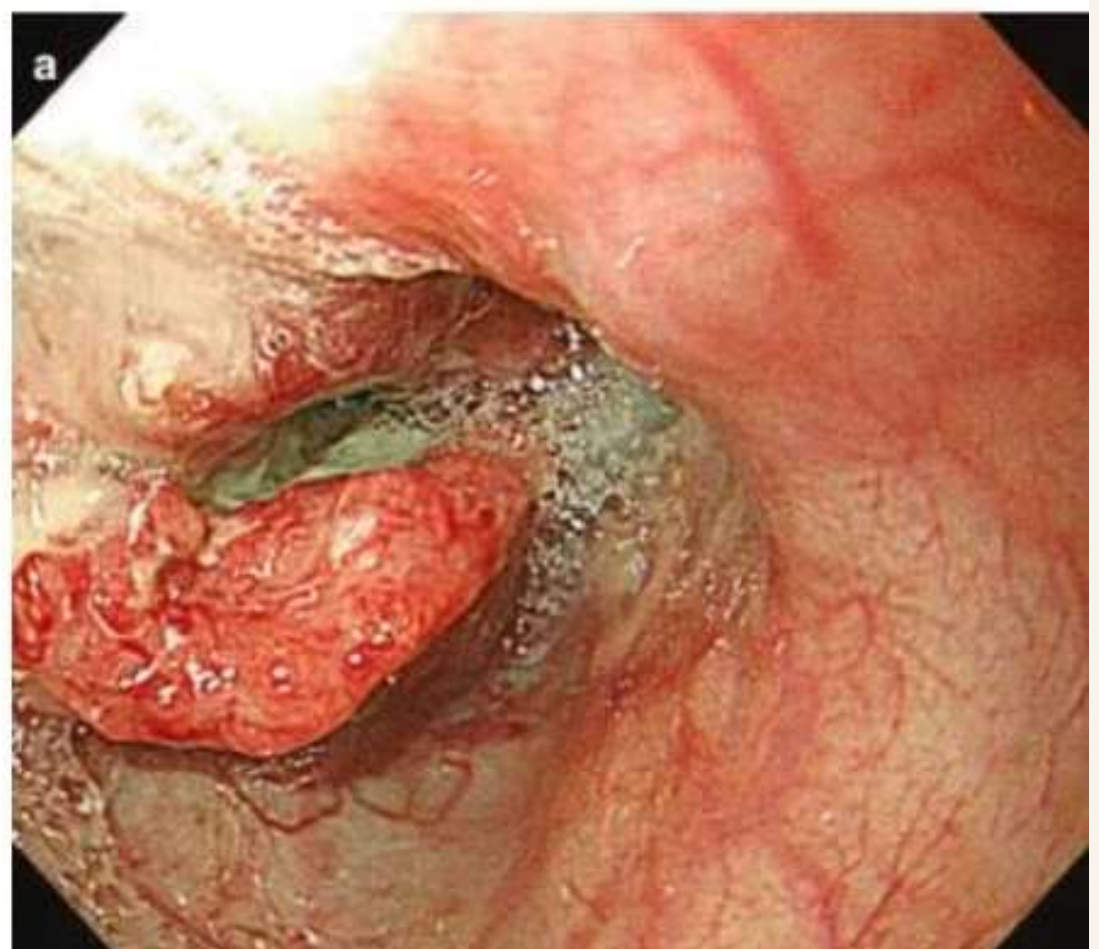
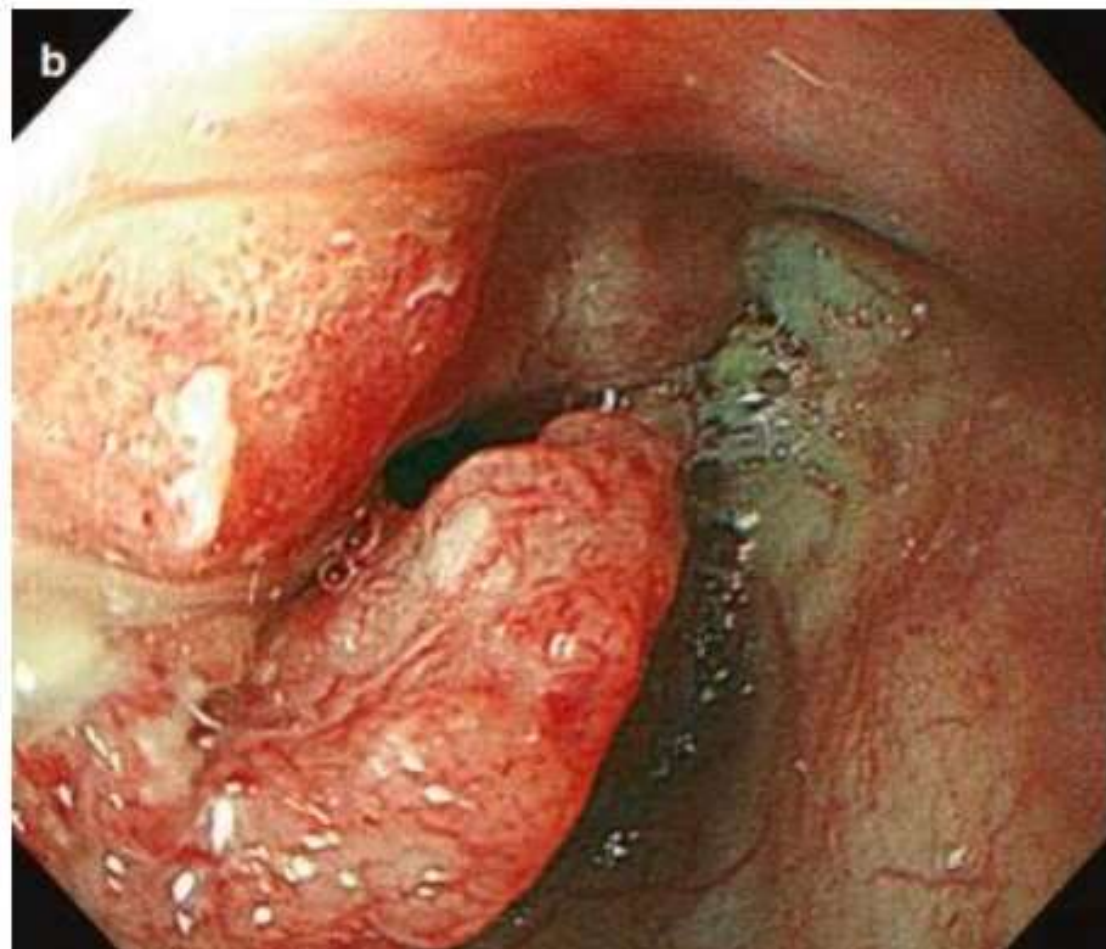
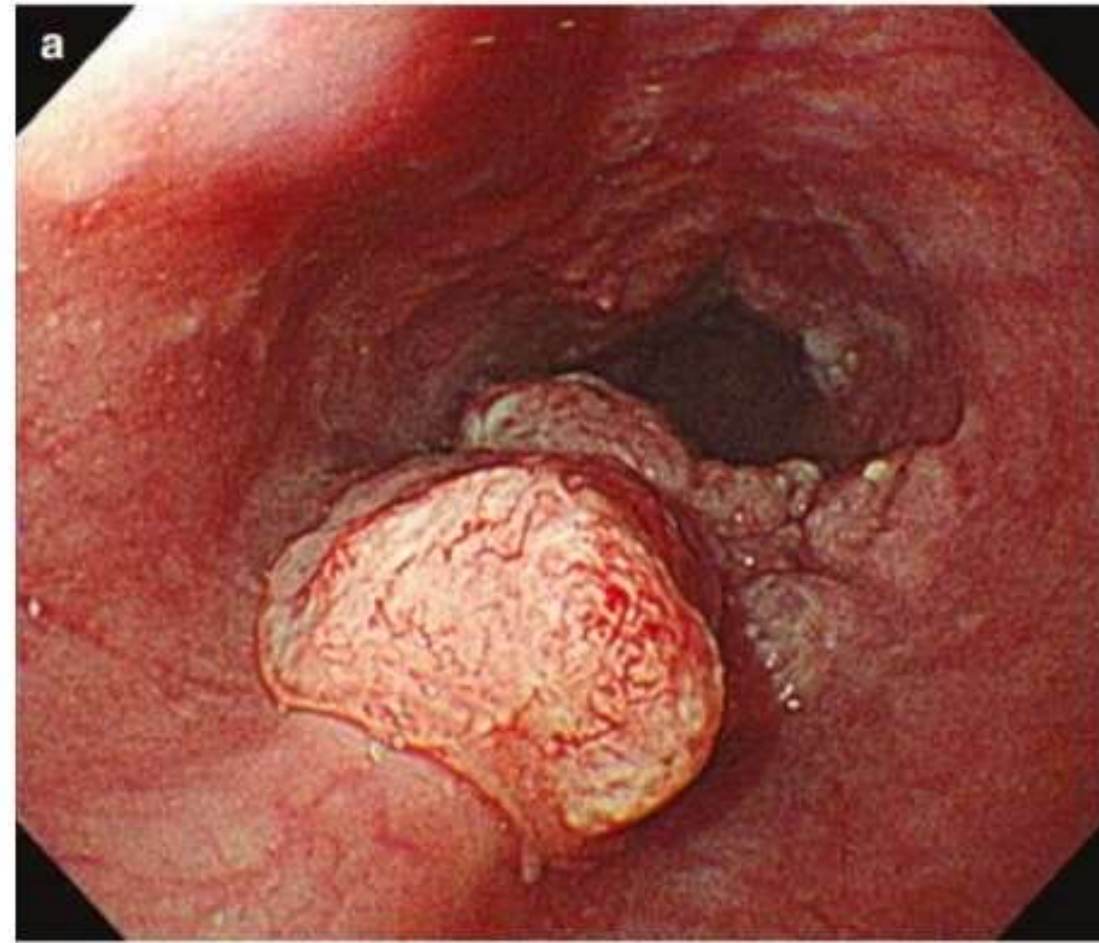
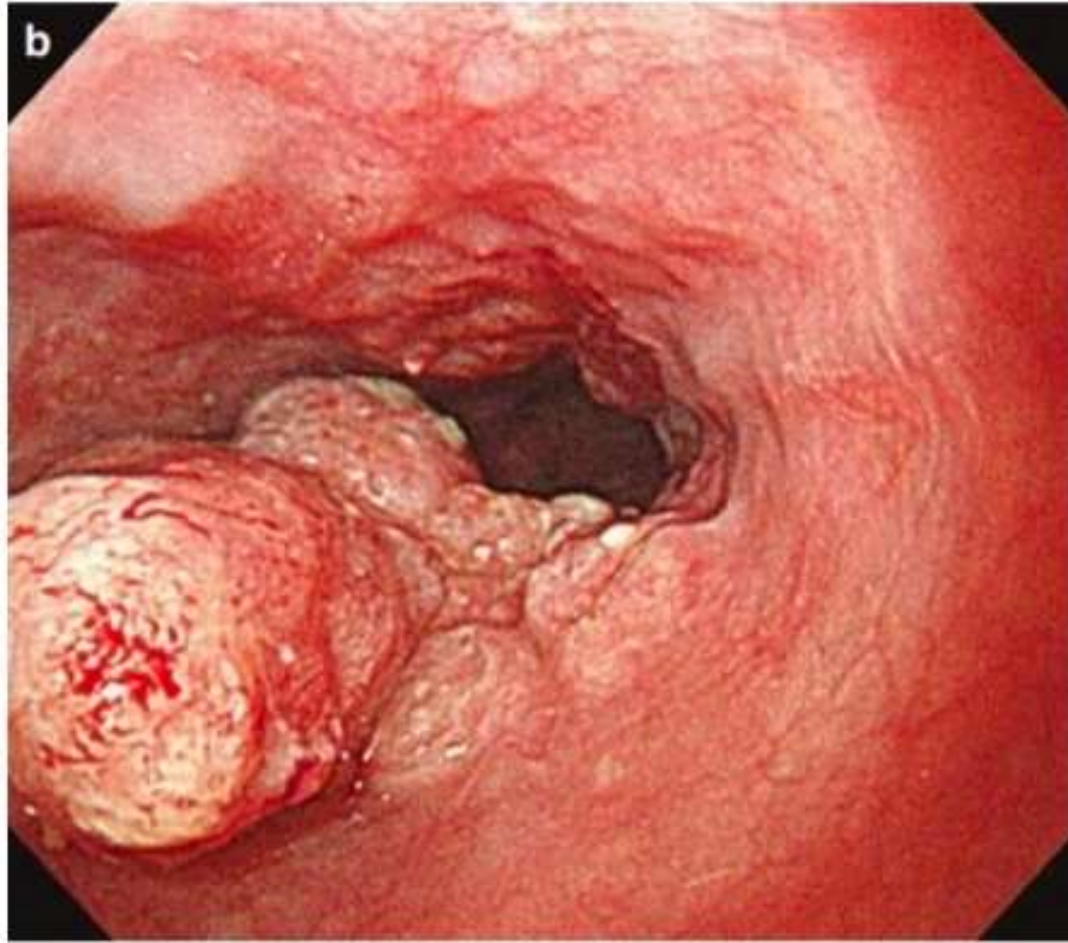
تبارز مغطى بمخاطية سليمة في الجزء
القاصي من المري

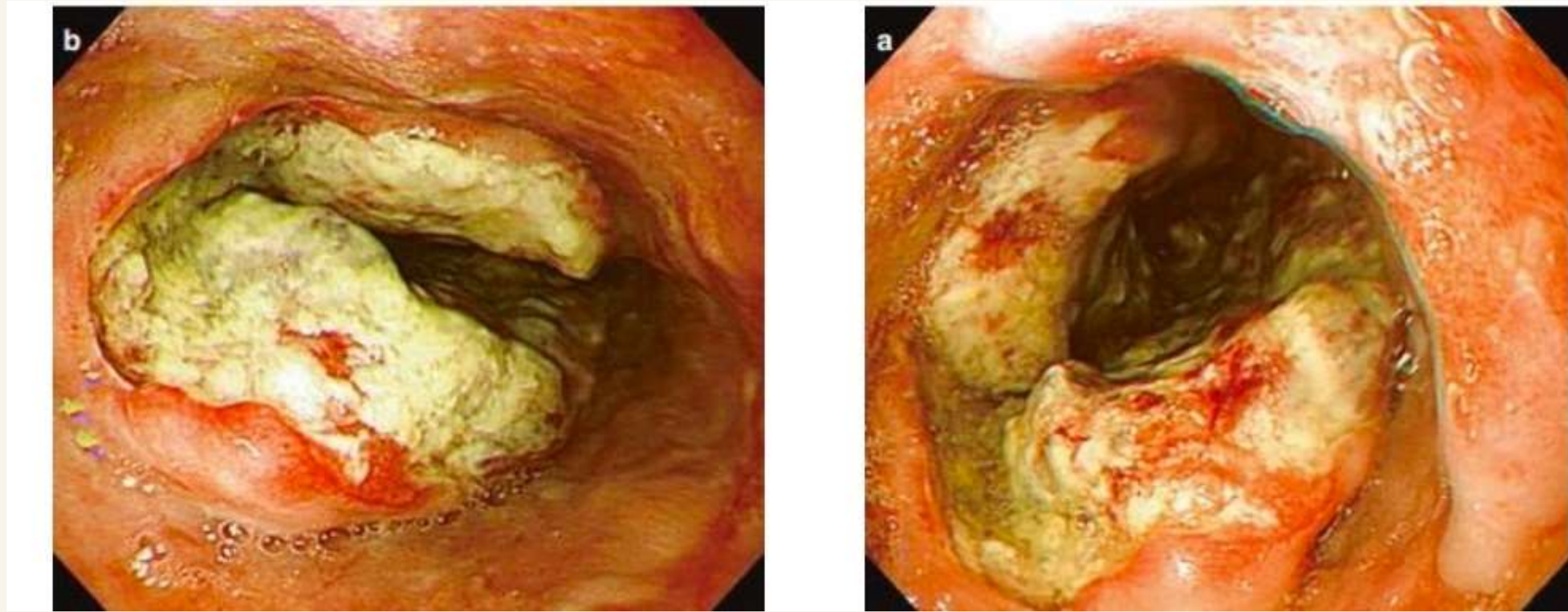


انضغاط خارجي للوجه الخلفي للمعدة بالبنكرياس P



انضغاط خارجي للانحناء الكبير بالكولون المستعرض TC





Esophageal Cancer

Esophageal Cancer – TNM Staging (AJCC 8th Edition)

T – Primary Tumor	
TX	Primary tumor cannot be assessed
T0	No evidence of primary tumor
Tis	Carcinoma in situ (high-grade dysplasia)
T1	Tumor invades lamina propria, muscularis mucosae, or submucosa
T2	Tumor invades muscularis propria
T3	Tumor invades adventitia
T4a	Tumor invades resectable adjacent structures (pleura, pericardium, azygos vein, diaphragm)
T4b	Tumor invades unresectable adjacent structures (aorta, vertebral body, trachea)

N – Regional Lymph Nodes	
NX	Regional lymph nodes cannot be assessed
N0	No regional lymph node metastasis
N1	Metastasis in 1–2 regional lymph nodes
N2	Metastasis in 3–6 regional lymph nodes
N3	Metastasis in 7 or more regional lymph nodes

M – Distant Metastasis	
M0	No distant metastasis
M1	Distant metastasis (present)

Anatomic Considerations (Esophagus)	
• Upper thoracic:	Upper thoracic esophagus (inc. thoracic inlet to azygos vein)
• Middle thoracic:	Azygos vein to inferior pulmonary vein
• Lower thoracic:	Inferior pulmonary vein to diaphragmatic hiatus
• Abdominal:	Below diaphragmatic hiatus

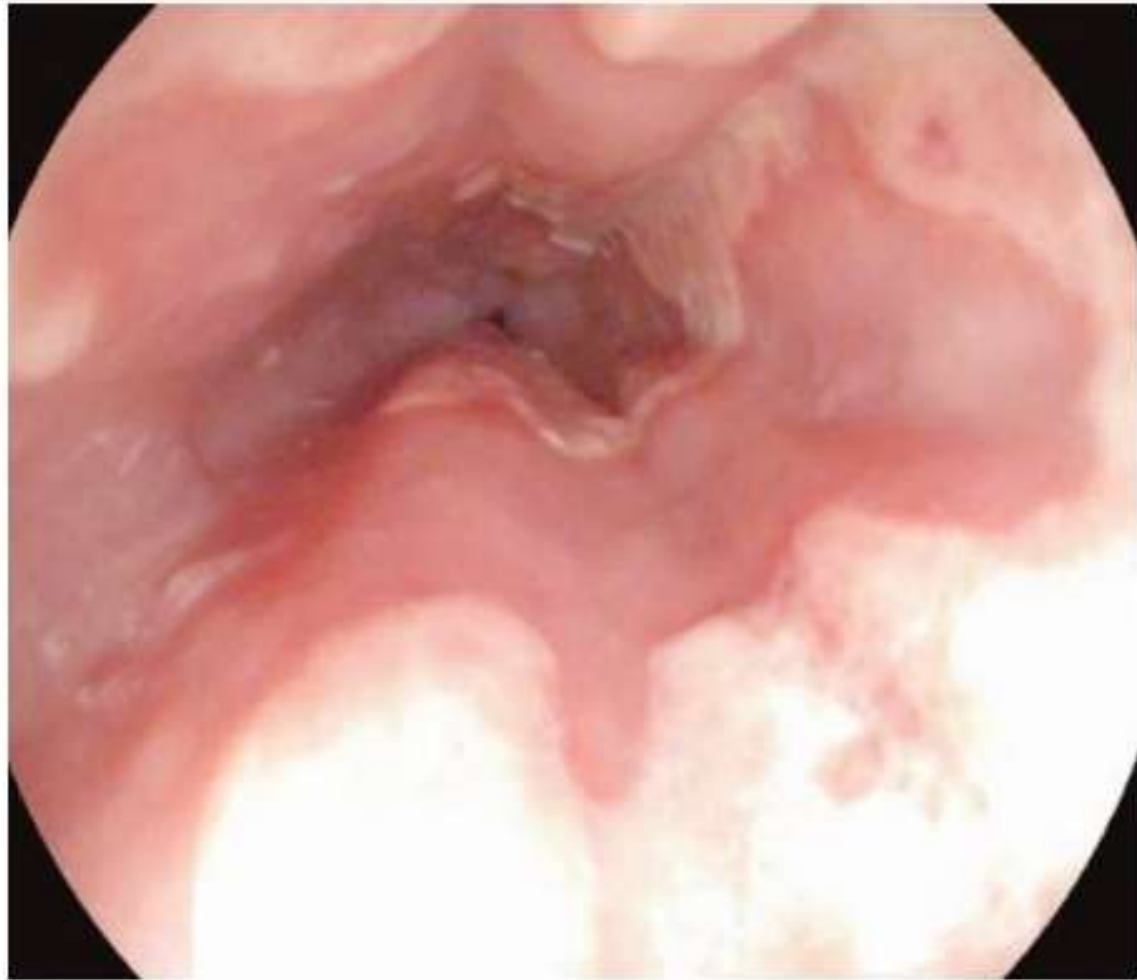
Stage Grouping (Esophageal Cancer)																	
Stage 0			Stage I			Stage II			Stage III			Stage IVA			Stage IVB		
Tis	N0	M0	T1	N0	M0	T1	N1	M0	T3	N1	M0	T4a	N3	M0	Any T	Any N	M1
			T2	N0	M0	T2	N1	M0	T2	N2	M0	T4b	Any N	M0			
						T3	N0	M0	T3	N2	M0						
									T4a	N0–2	M0						

Note: Staging may vary slightly between histologic types (e.g., squamous cell carcinoma vs. adenocarcinoma) in specific guidelines. Always refer to the latest AJCC/UICC staging manual.



(Drug-Induced Esophagitis)

Drug-induced esophagitis



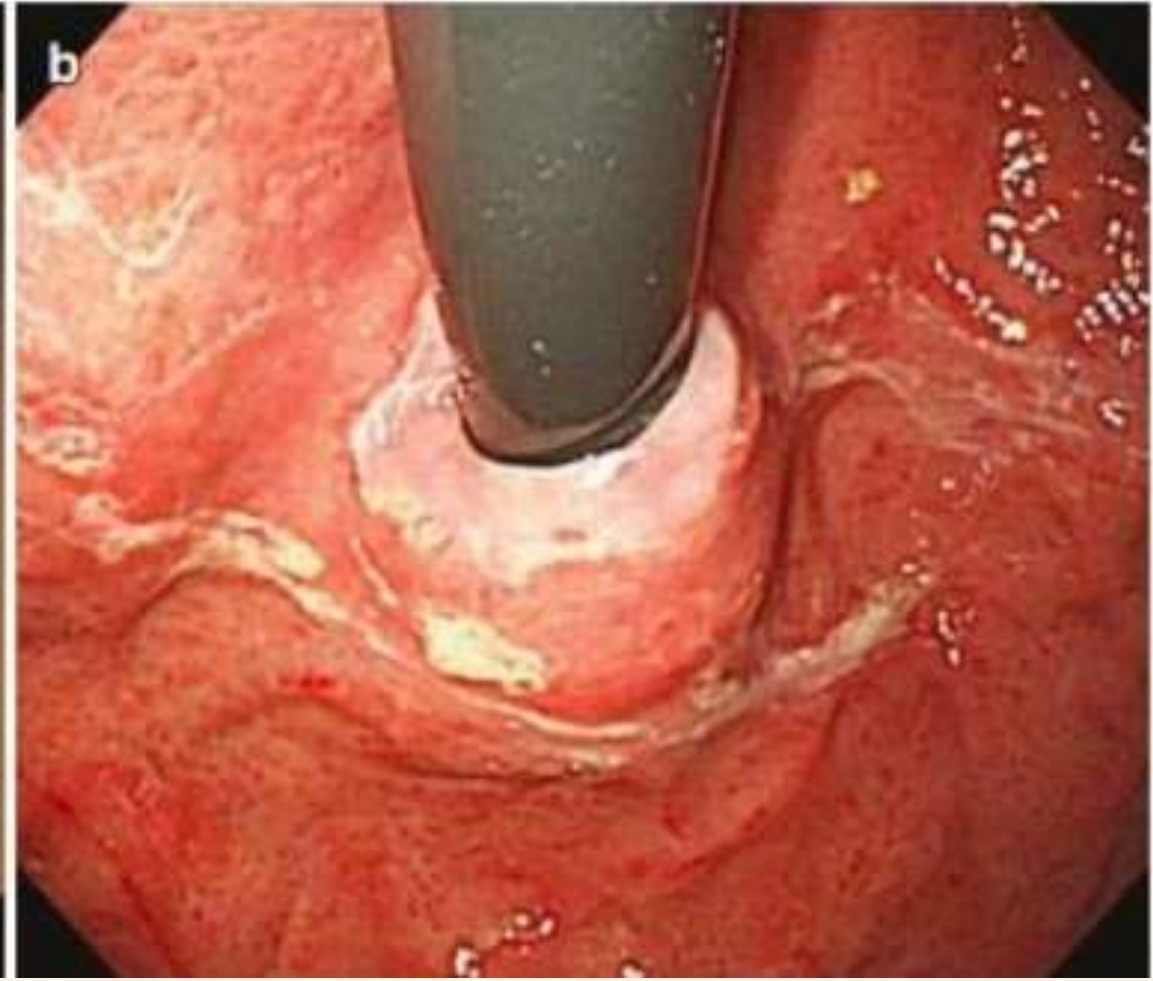
.(Drug-Induced Esophagitis) :

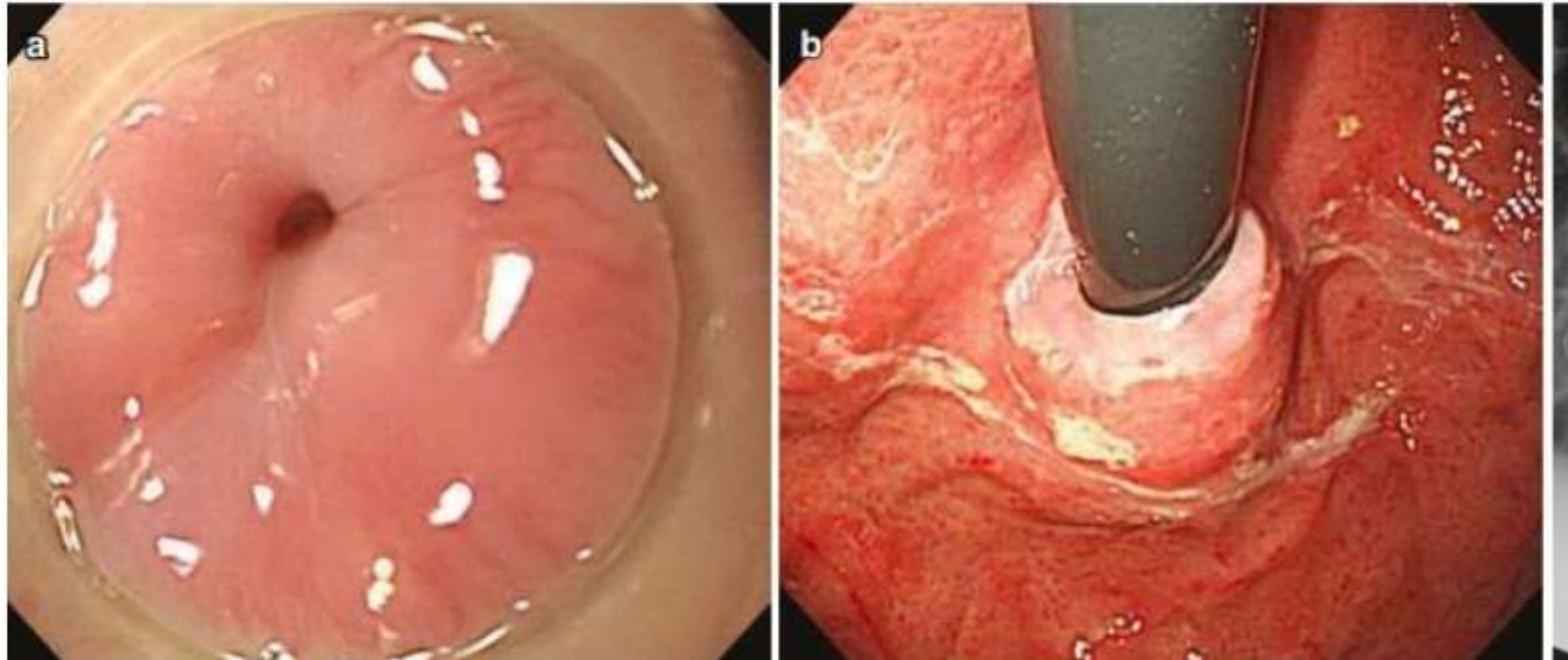


(Drug-Induced Esophagitis)

Drug-induced esophagitis

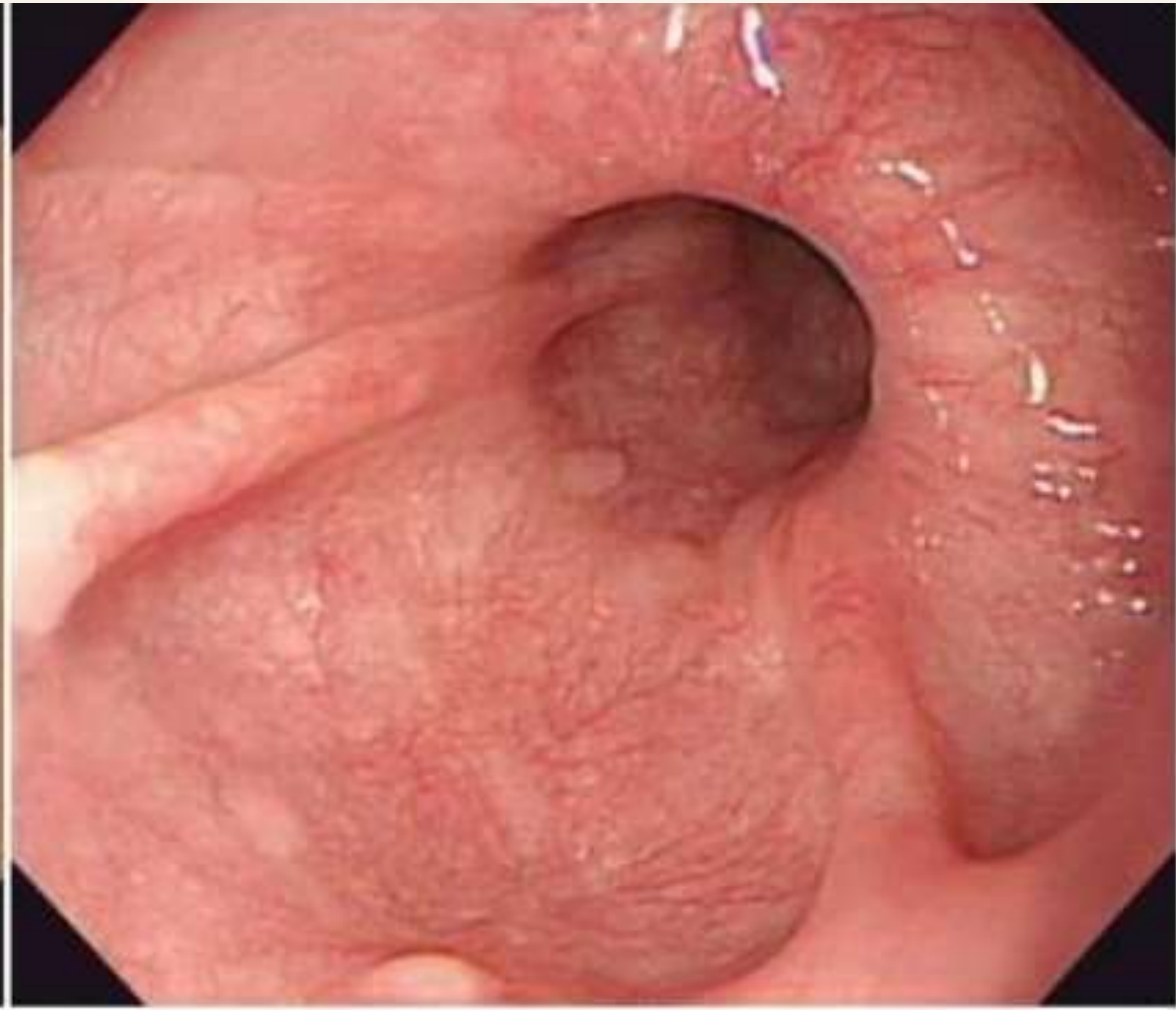
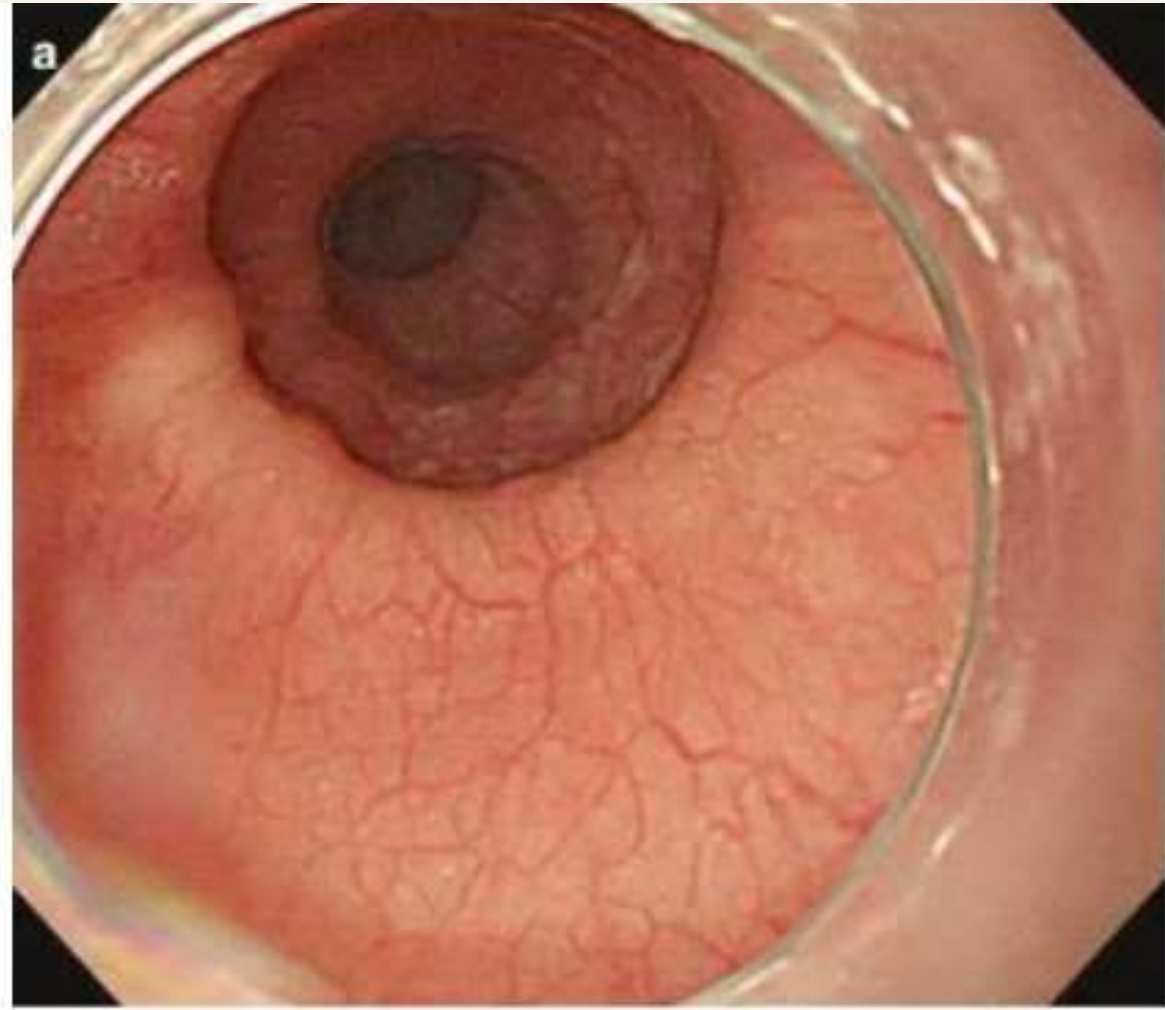
- Doxycycline
 - Tetracycline
 - Clindamycin
 - Amoxicillin
 - Metronidazole
 - Ciprofloxacin
 - Bisphosphonates
 - Aspirin
 - Ibuprofen
 - Methotrexate
 - Warfarin
 - Ferrous sulfate
 - Potassium
-)

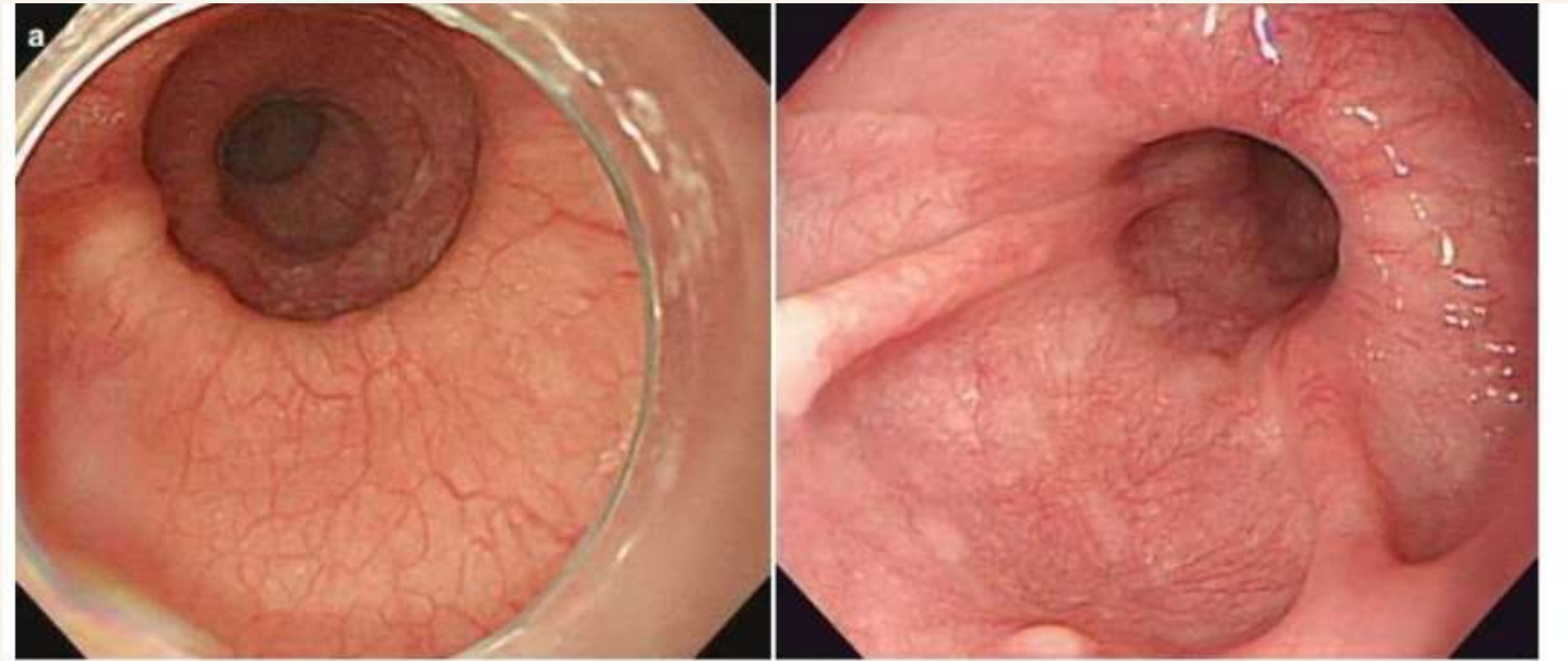




Achalasi

a





Diffuse Esophageal Spasm



شقوق وحلقات



حلقات متعددة



شقوق طولانية

التهاب المريء بالحمض



شقوق وحلقات



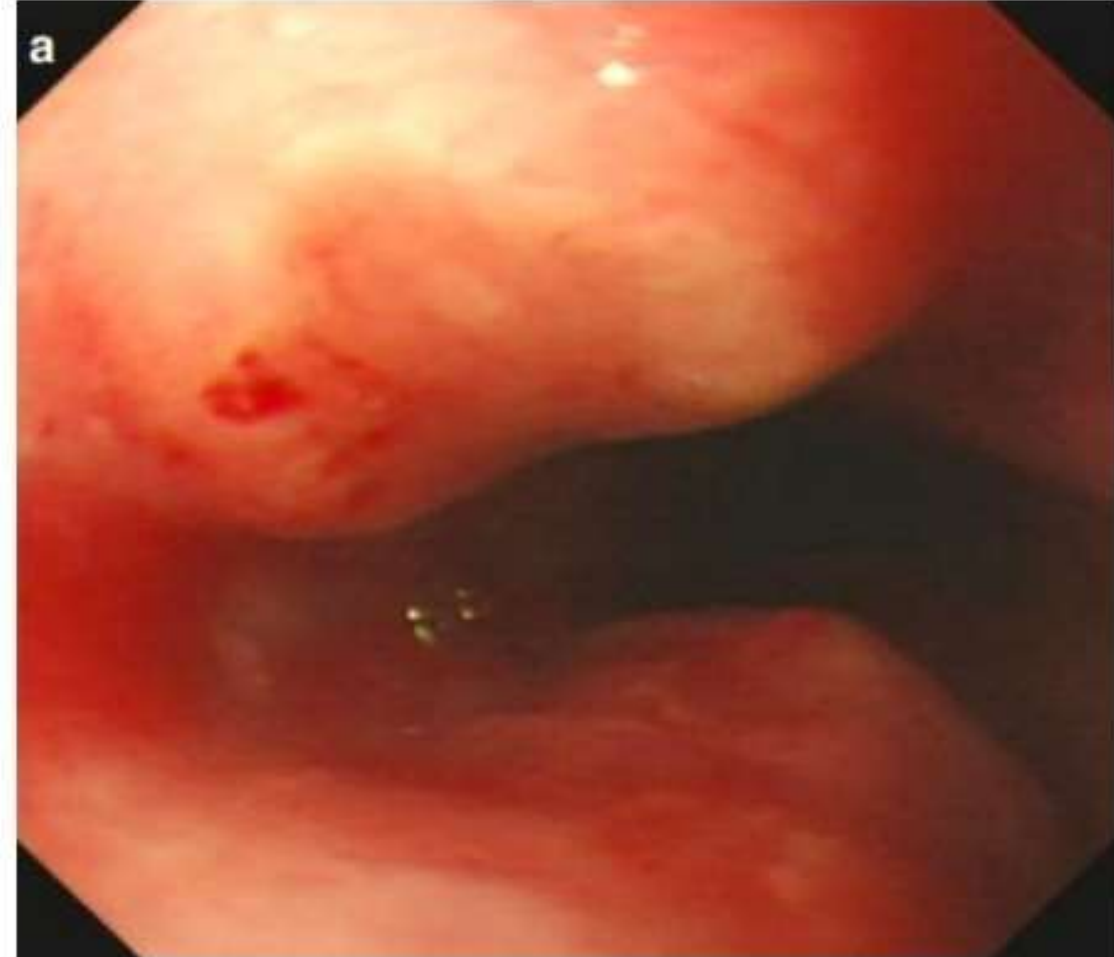
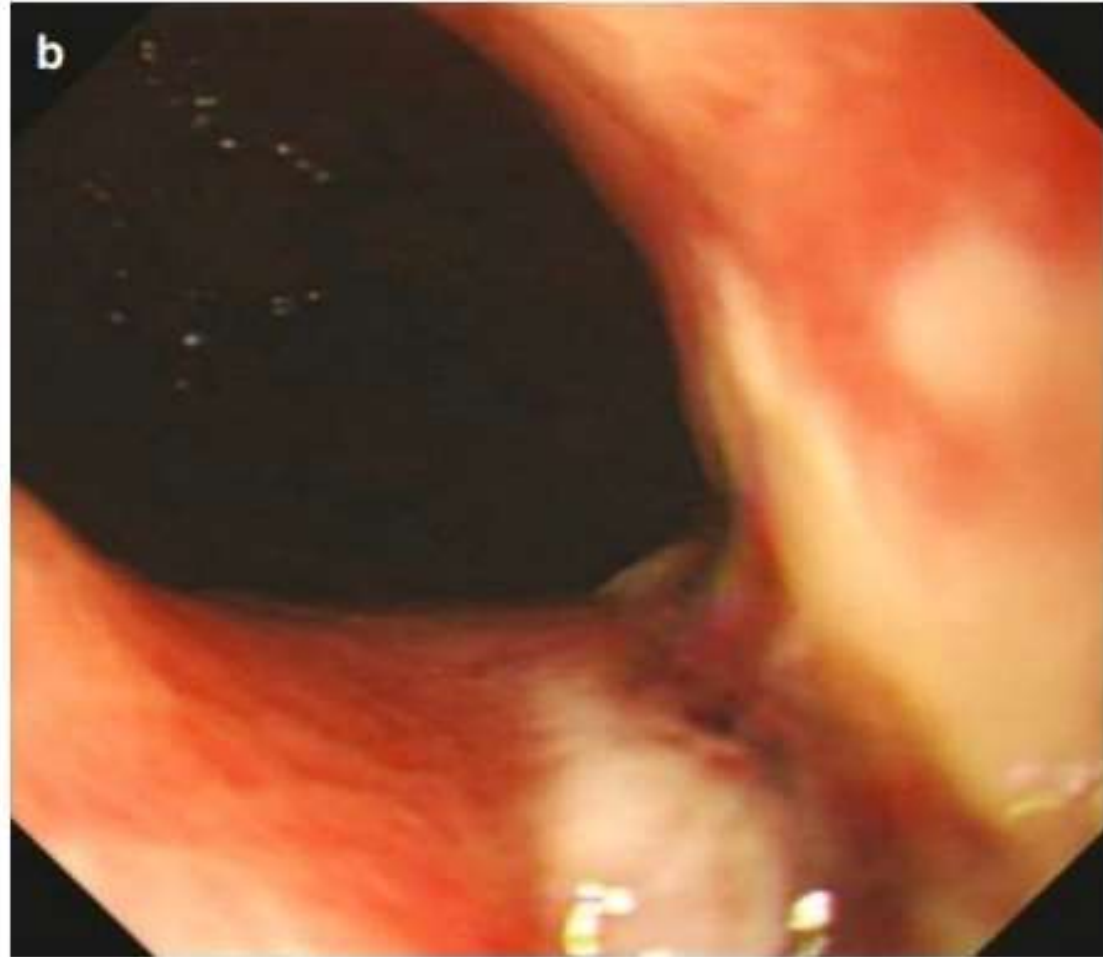
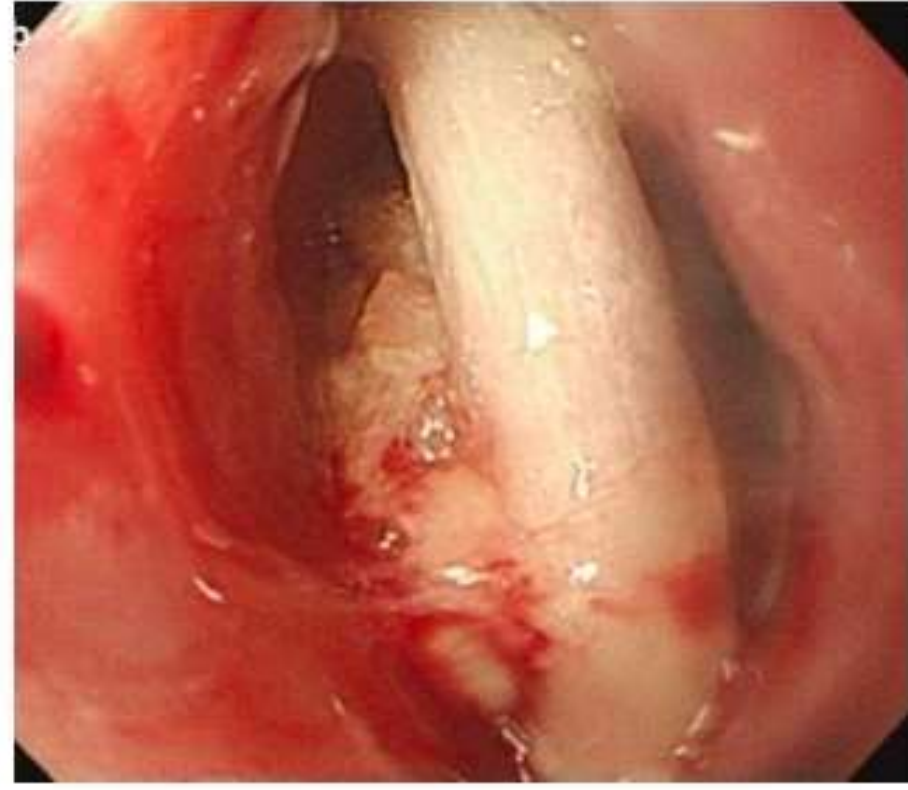
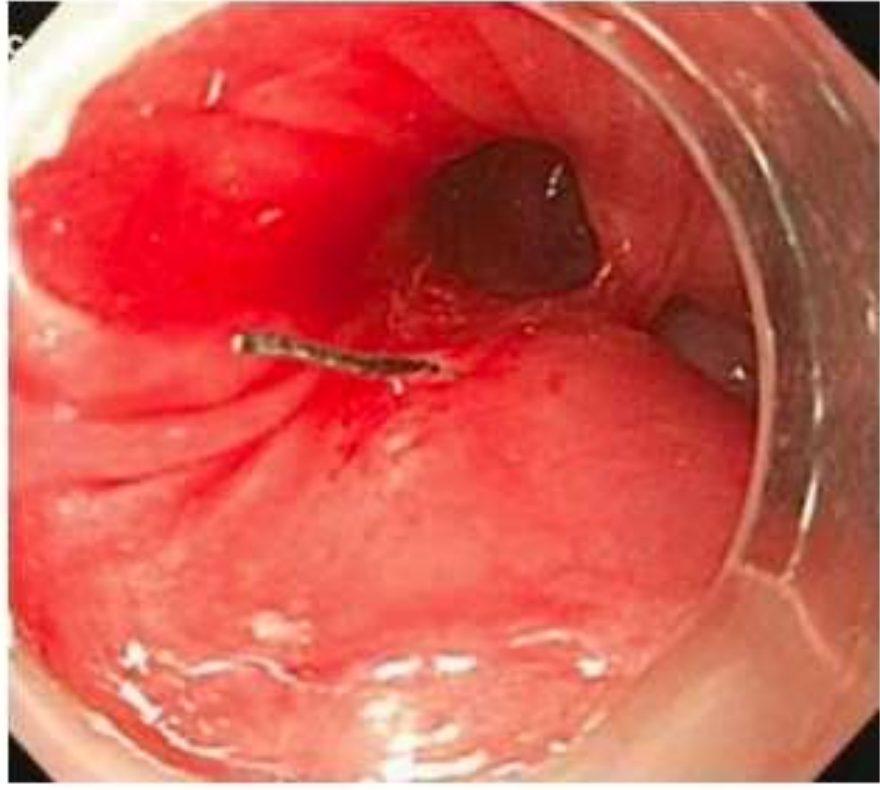
حلقات متعددة

التهاب المري بالحمضيات



شقوق طولانية

Eosinophilic Esophagitis



قرحة طولانية عند الوصل المعدي المريئي لدى نفس المريض
السابق

قرحتان طولانيتان متقابلتان في الثلث المتوسط للمري

التهاب المري التماسي، بسبب وضع طويل الأمد لأنبوب أنفي معدي



توسيع بالبالون للتضييق السابق



تضييق شديد يعلوه مري بارييت طويل القطعة



تقرح على محيط اللمعة، تعلوه
اصطباعات تدل على نزف حديث

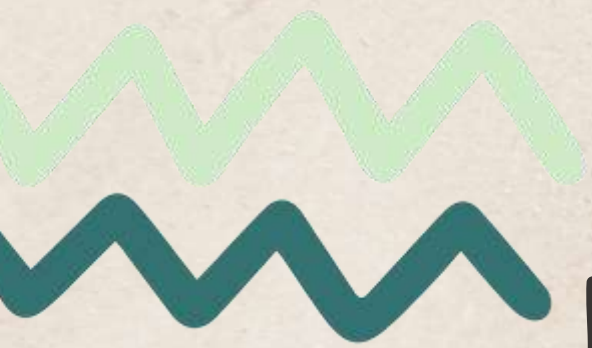


وذمة ومنتحة قبيحية على امتداد واسع من
المخاطية



قرحات سطحية في أعلى المري، محاطة
بوذمة ونزف

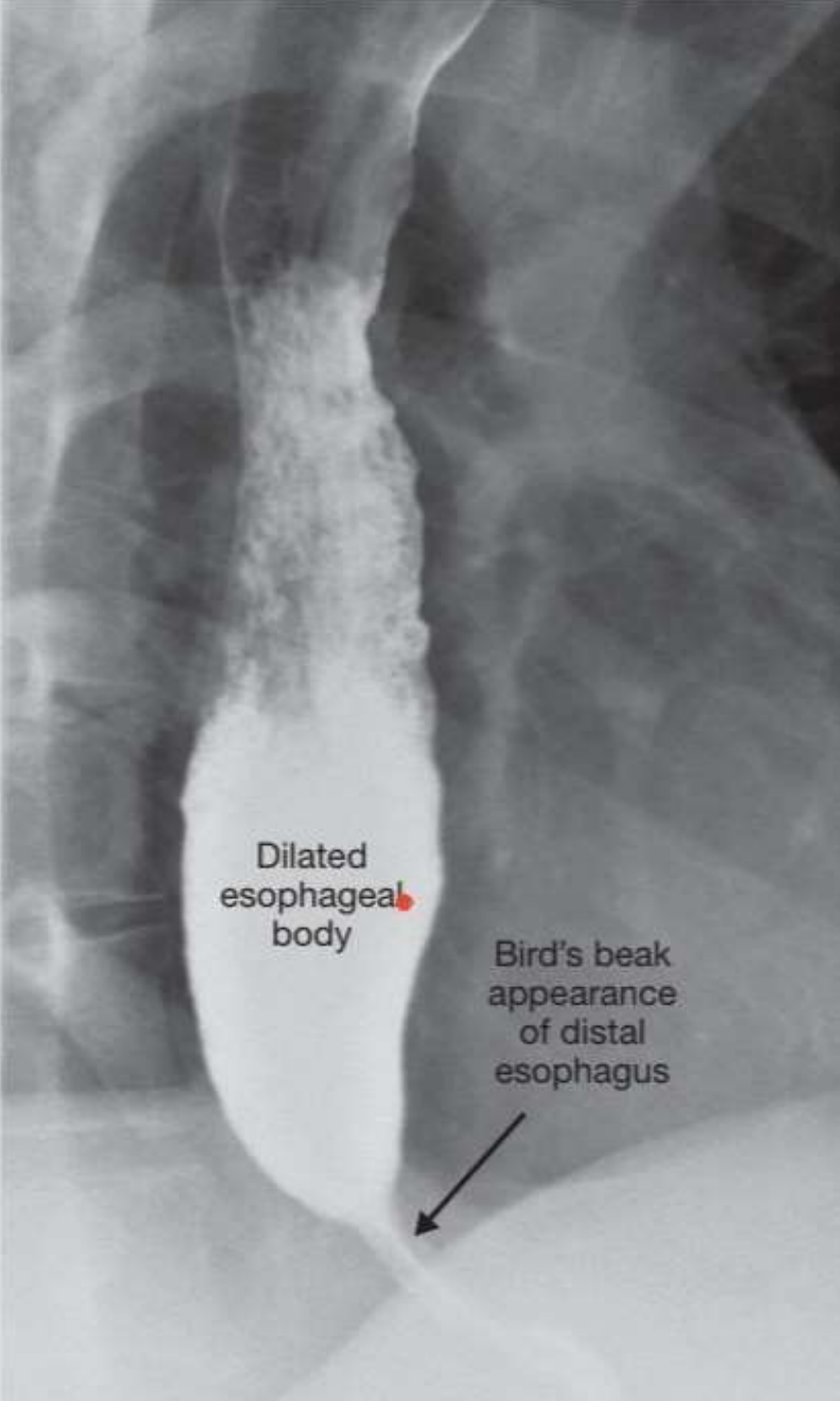
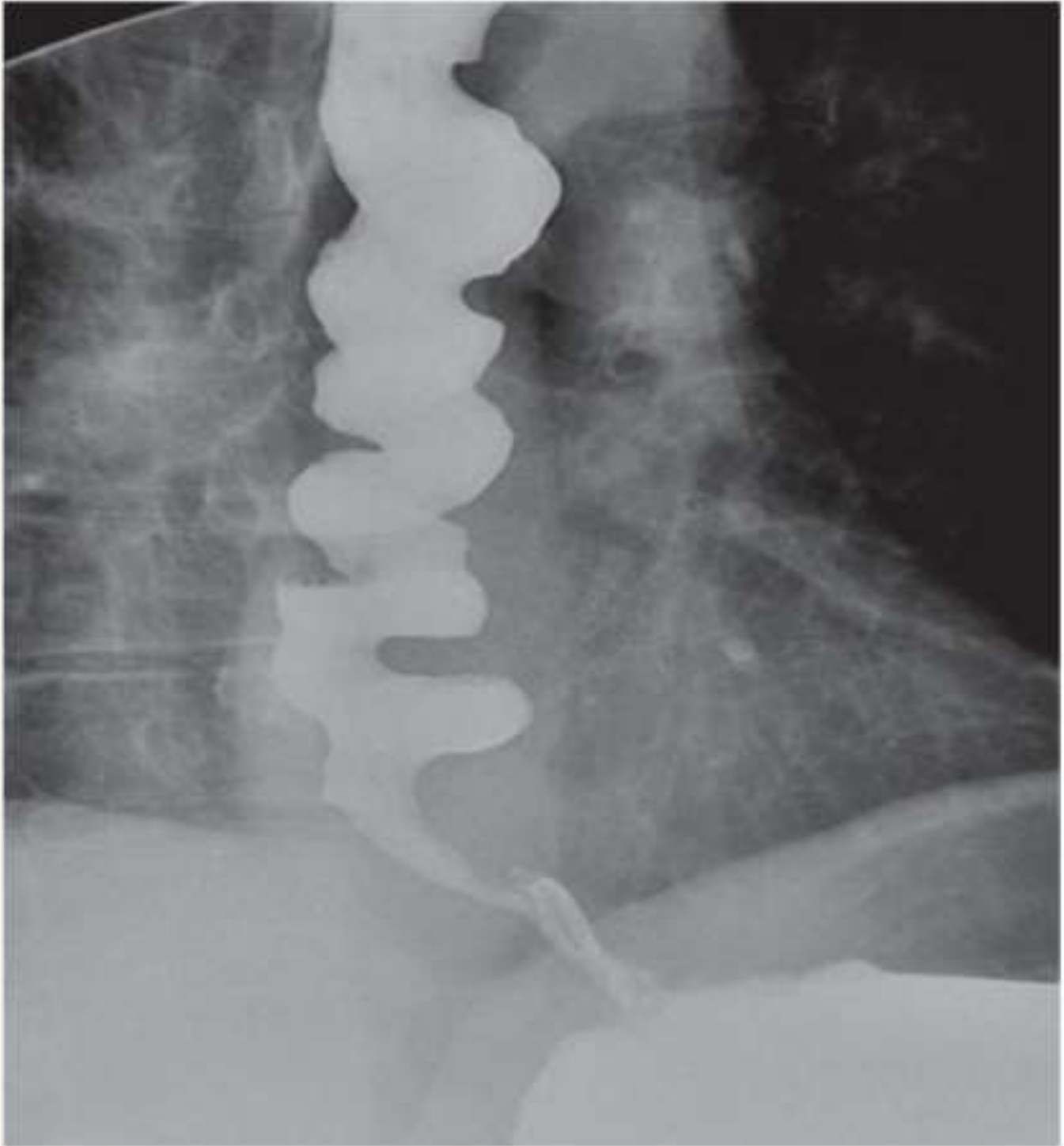
التهاب المري الإشعاعي



barium esophagram

A barium swallow is used in cases of suspected Zenker's diverticulum, when there is concern about perforation after surgery, radiation, or cauterization, patients with high anesthetic risk.

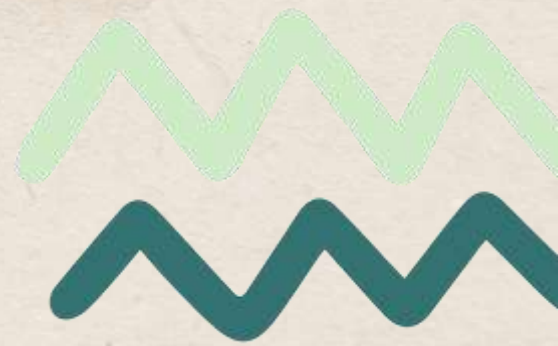
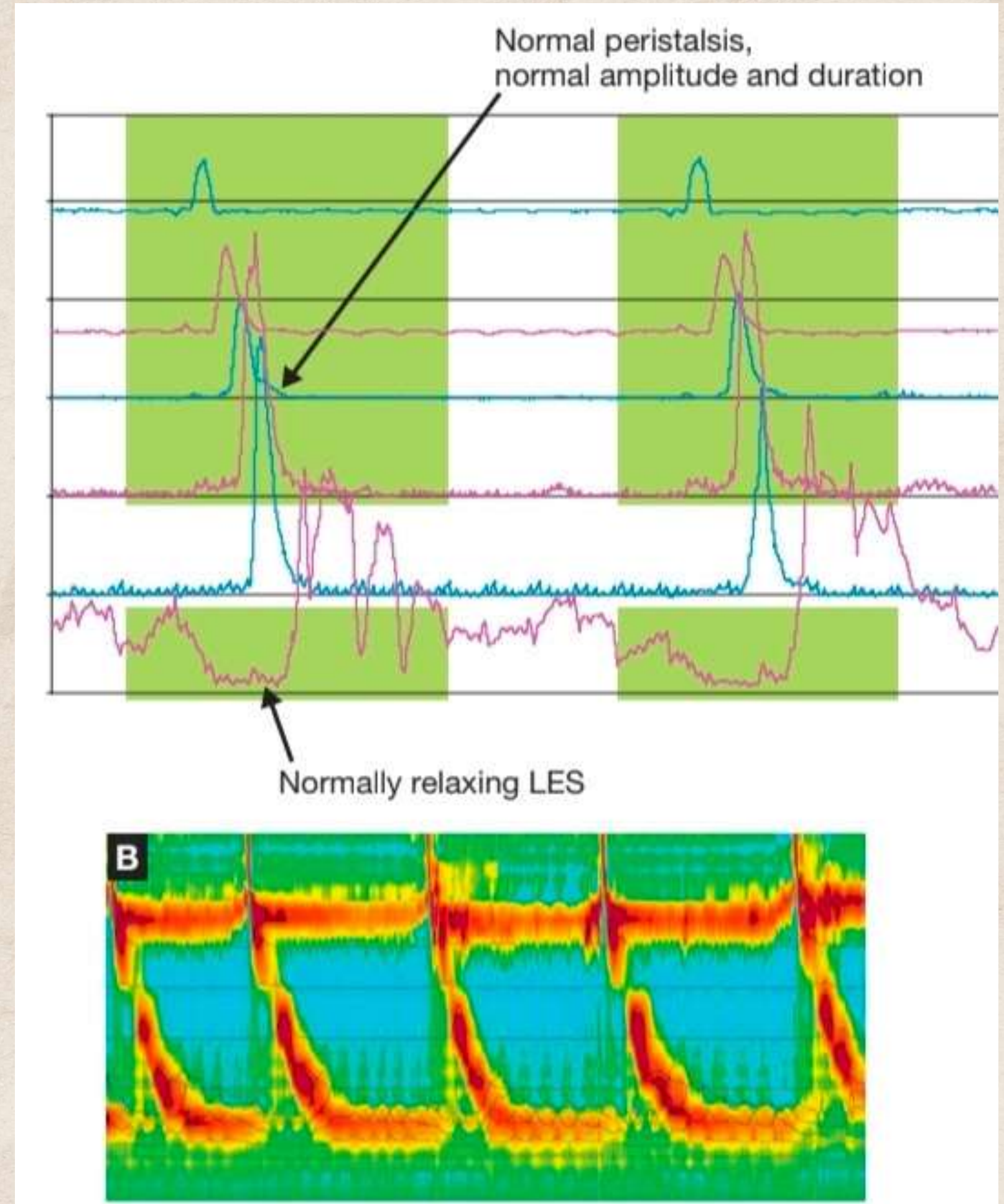


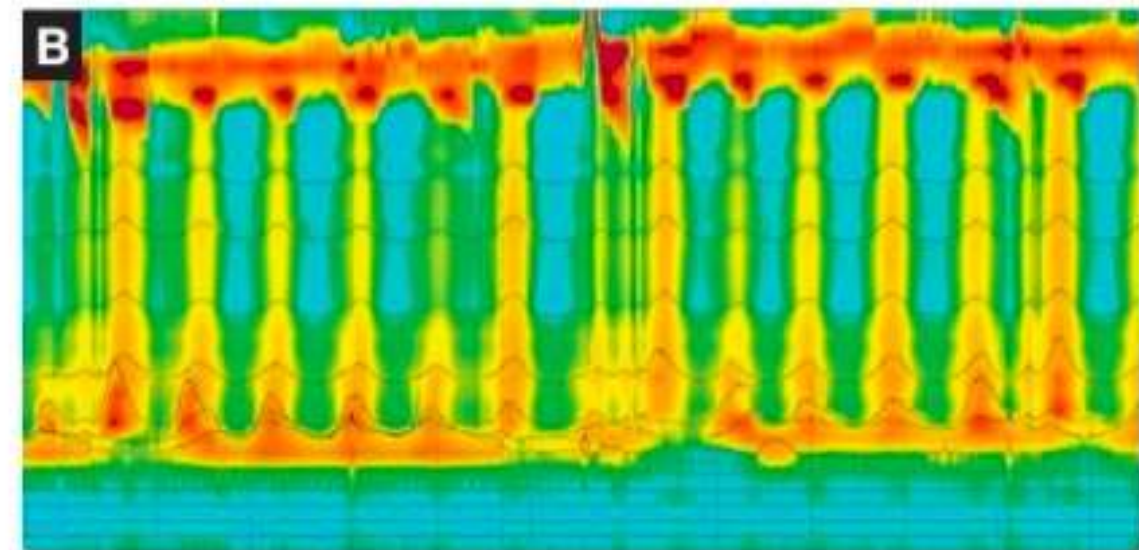
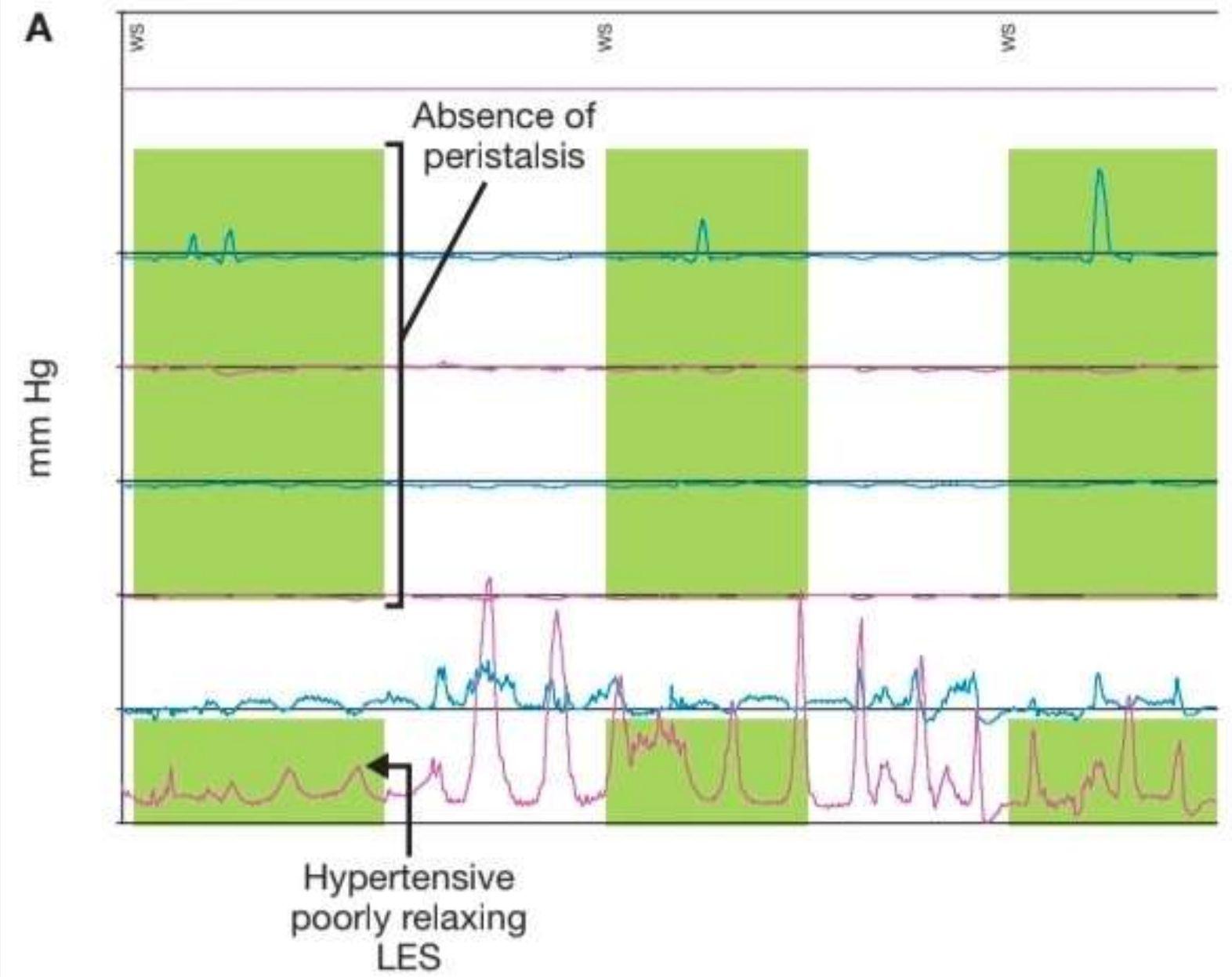
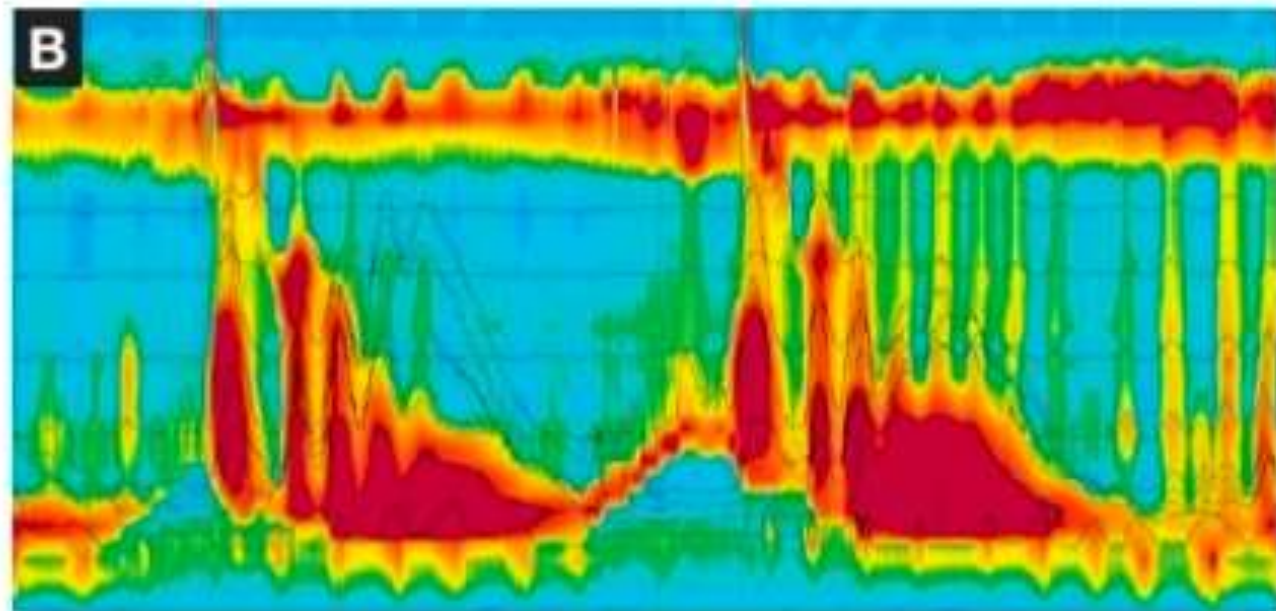
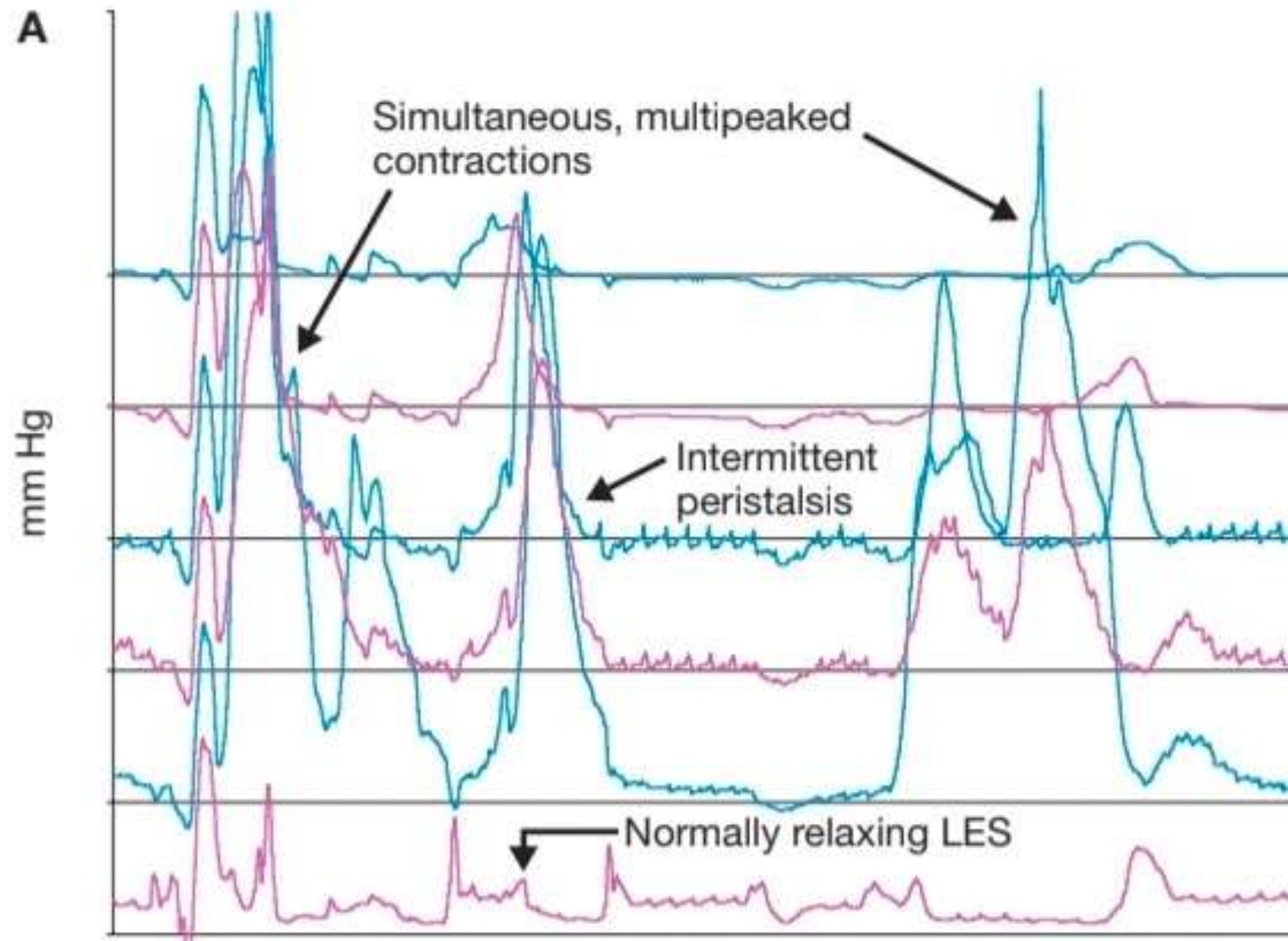


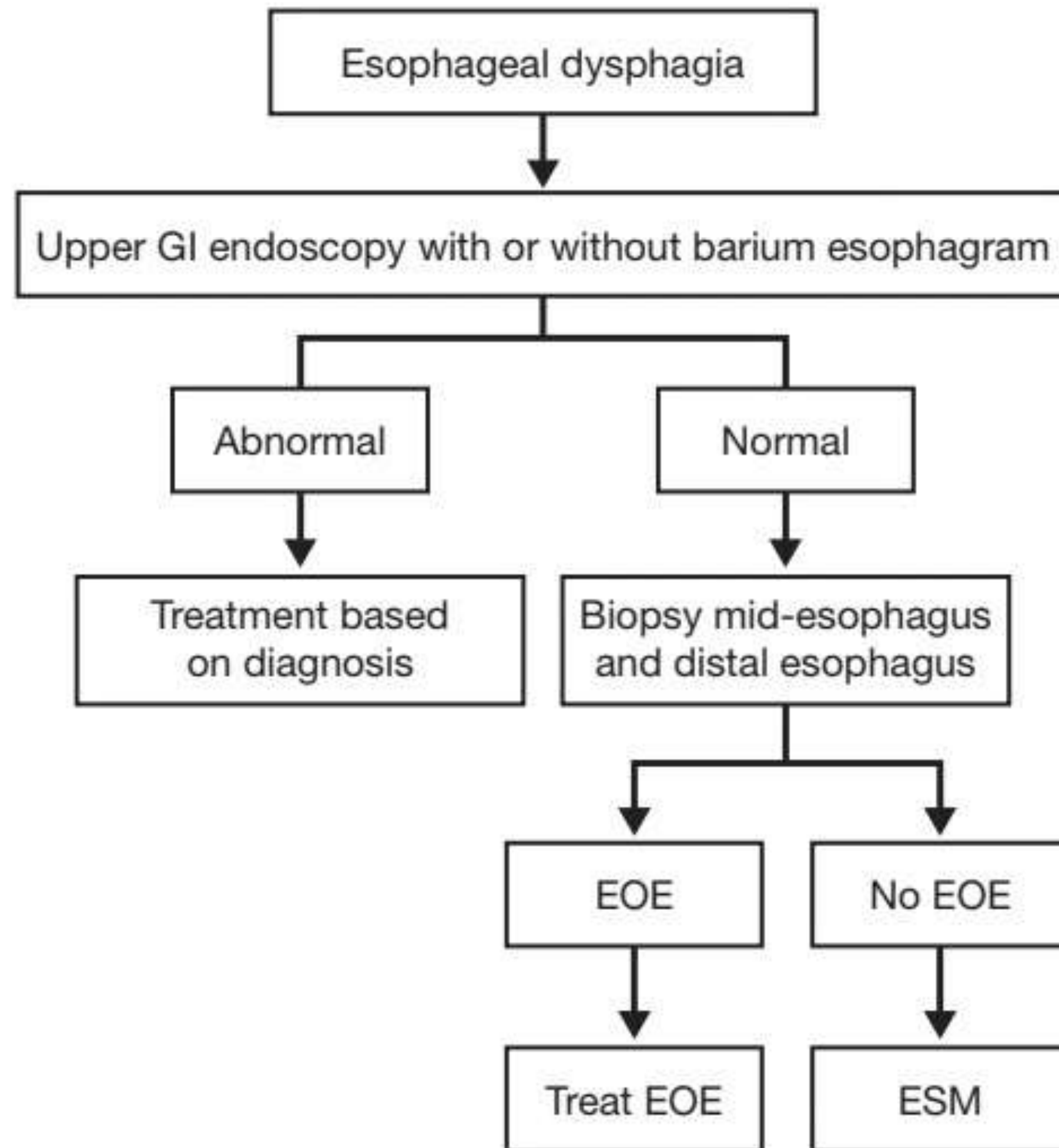




esophageal manometry








Functional Dysphagia

- Functional dysphagia is defined as dysphagia that persists for at least 3 months, with symptom onset at least 6 months before diagnosis
- normal investigations.
- Management is supportive and includes reassurance and Tricyclic antidepressant therapy.




Q&A Session






A 68-year-old man presents with progressive dysphagia that started with solid foods and later progressed to liquids. He also reports significant weight loss and chronic smoking history. Endoscopy reveals an irregular mass in the lower third of the esophagus.


What is the most likely diagnosis?

- A. Achalasia
 - B. Esophageal carcinoma
 - C. Gastroesophageal reflux disease (GERD)
 - D. Eosinophilic esophagitis
- 



24-year-old man presents with progressive difficulty swallowing solid foods and occasional food impaction. He has a history of asthma and seasonal allergies. Upper endoscopy shows multiple concentric rings and linear furrows in the esophagus. Biopsy reveals high numbers of eosinophils in the esophageal mucosa.

What is the most likely diagnosis?

- A. Achalasia
 - B. Gastroesophageal reflux disease (GERD)
 - C. Eosinophilic esophagitis
 - D. Esophageal cancer
- 



Thank
you



Dr. Tasneem aldoki ❤️