

Esophageal disease (stricture, diverticula, achalasia)

Surgery department №2,
DSMA

Clinical picture of esophageal diverticula

- ❑ Food regurgitation might occur when standing, bending or lying down
- ❑ Patients might develop dysphagia (difficulty swallowing)
- ❑ Chronic coughing
- ❑ Chest pain
- ❑ Heartburn
- ❑ Weight loss

Esophageal diverticula classification

By aetiology:

- congenital
- acquired

By quantity:

- single
- multiple

By localisation

- cricopharyngeal (or Zenker)
- midesophageal
- epiphrenic

Clinical picture of esophageal diverticula

- As food collects in the pockets, it promotes bacteria in the esophagus, which also leads to halitosis (bad breath).
- A patient's voice also might change.

Diagnostic of esophageal diverticula

- Esophagoscopy
- Chest X-ray
- Contrast esophagography

Chest X-ray



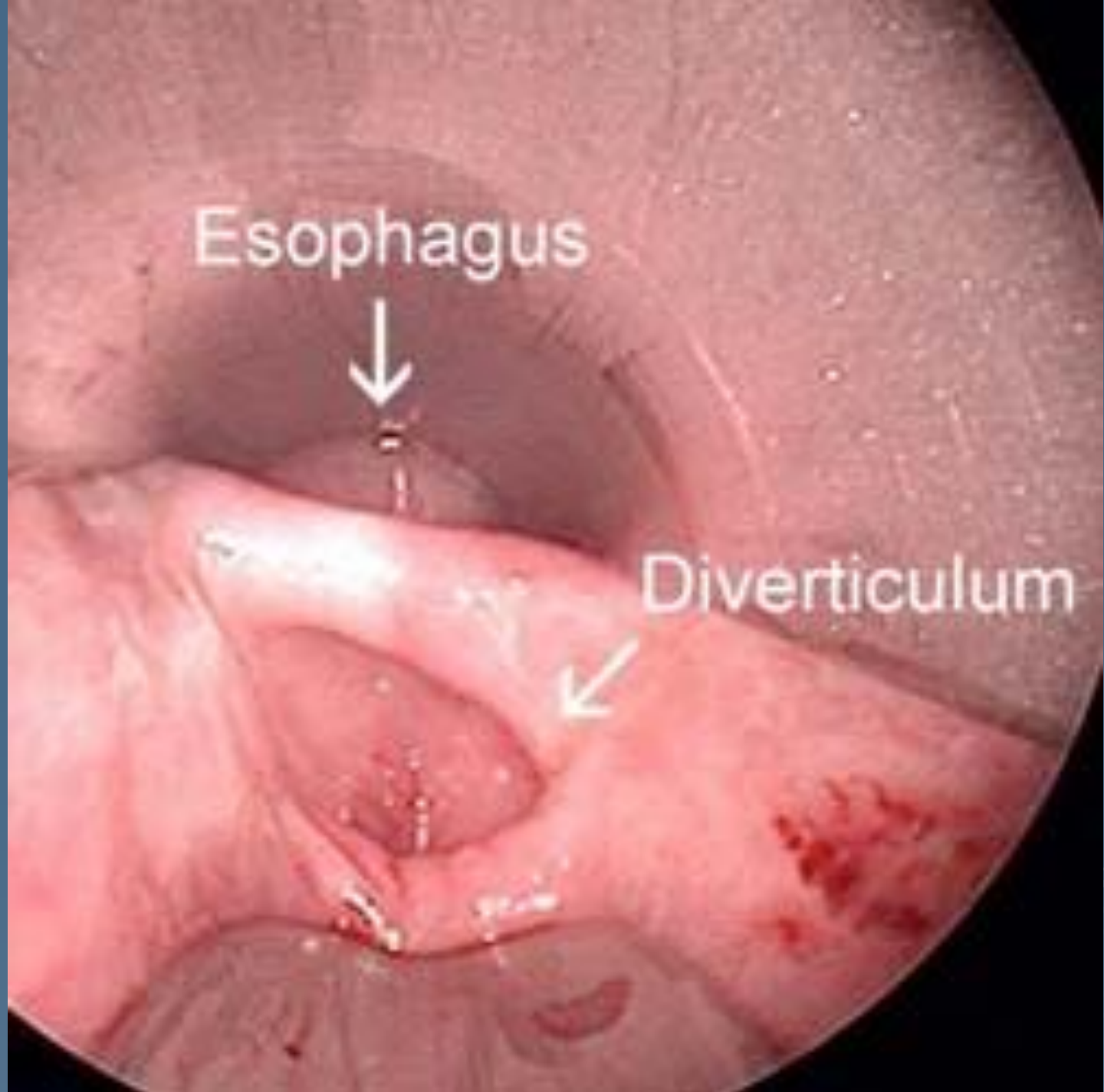


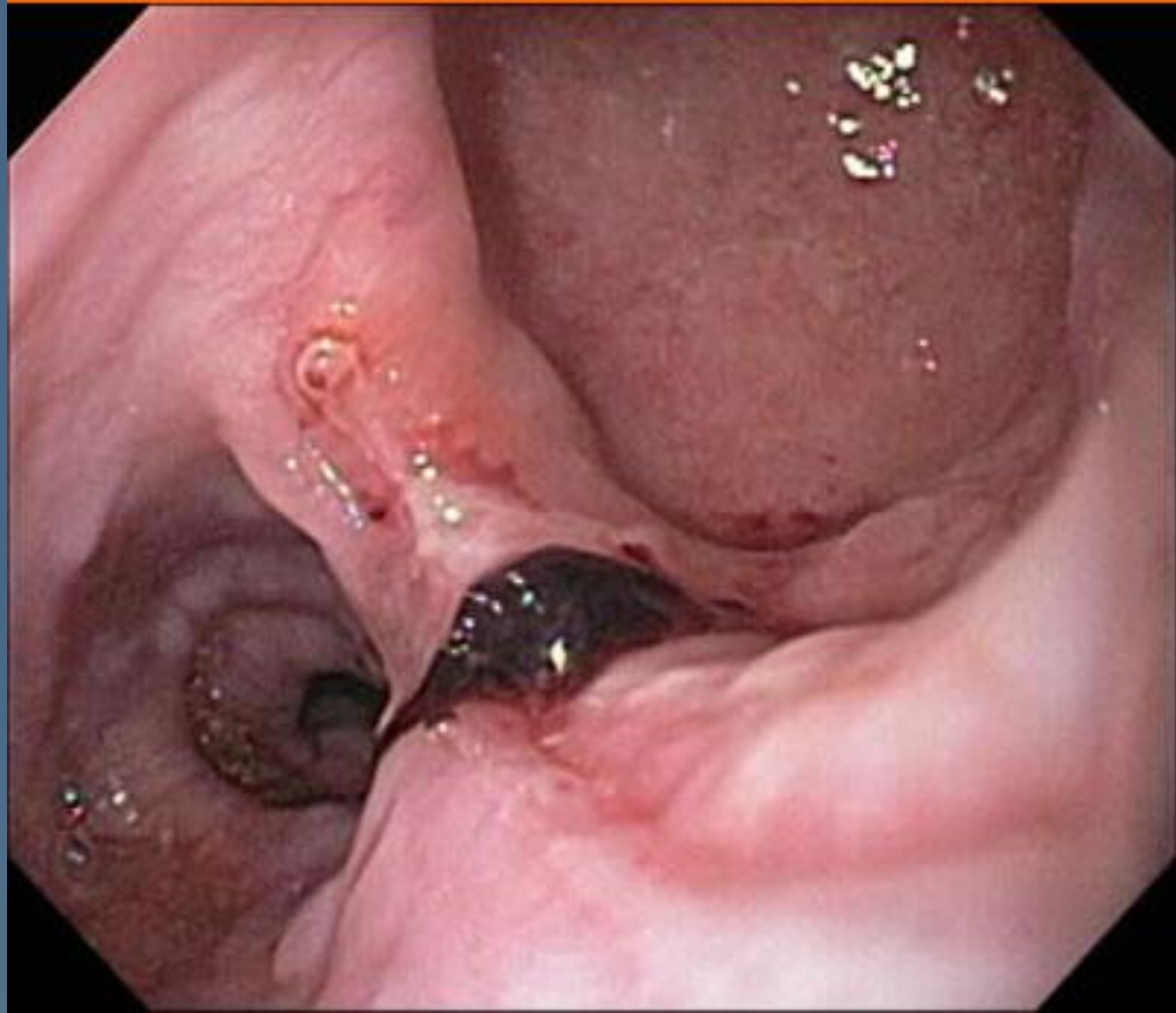


Esophagus

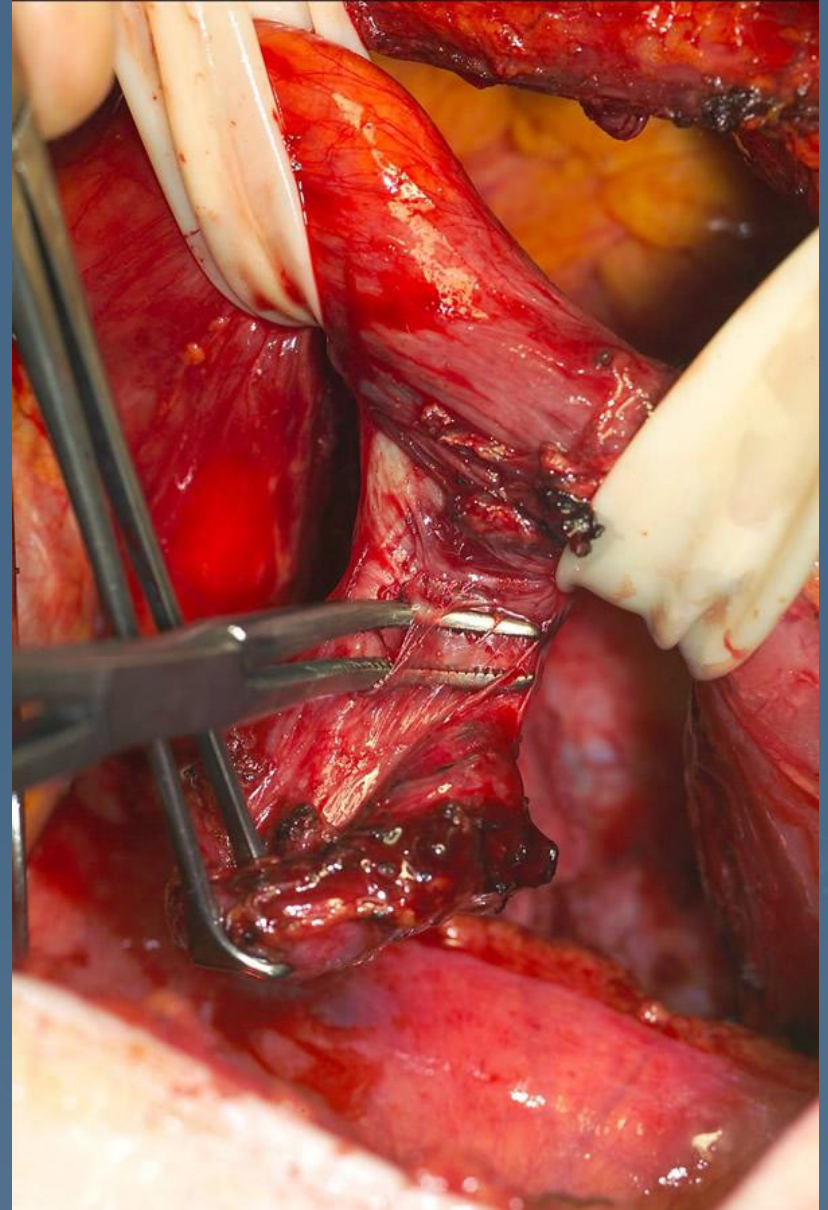


Diverticulum

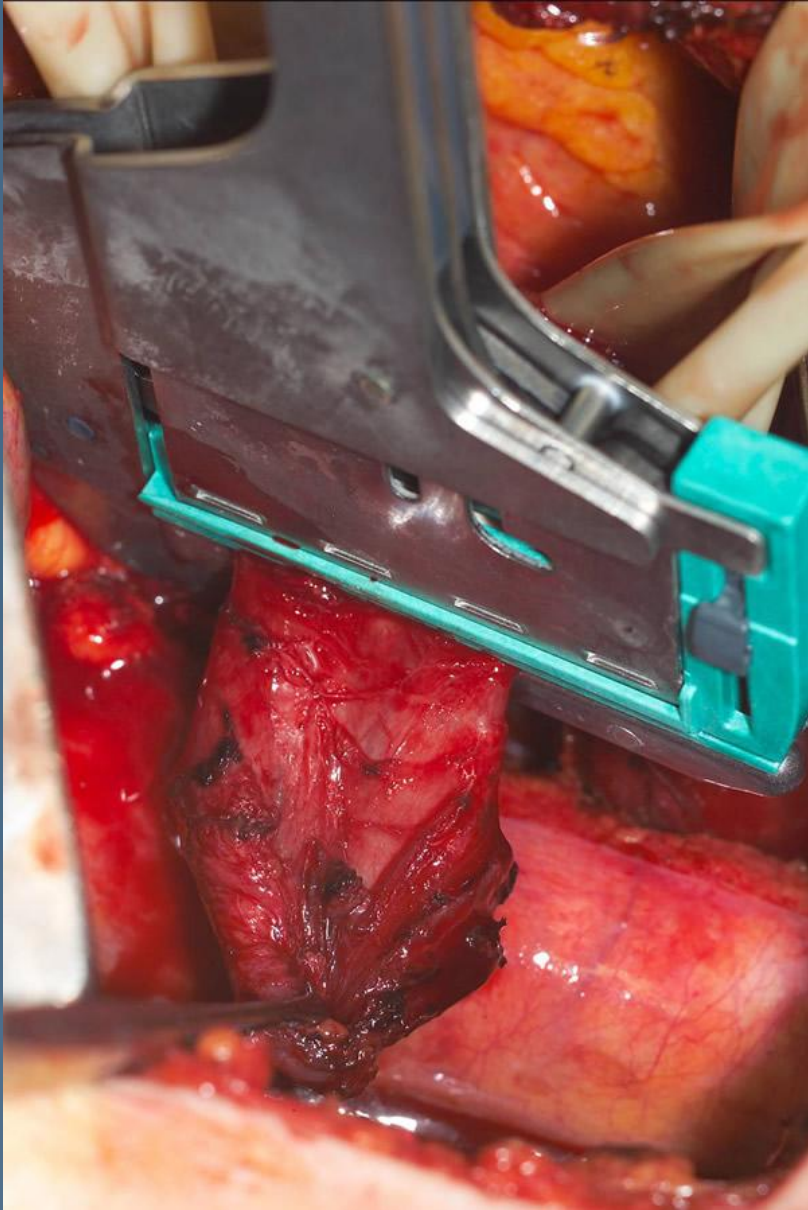




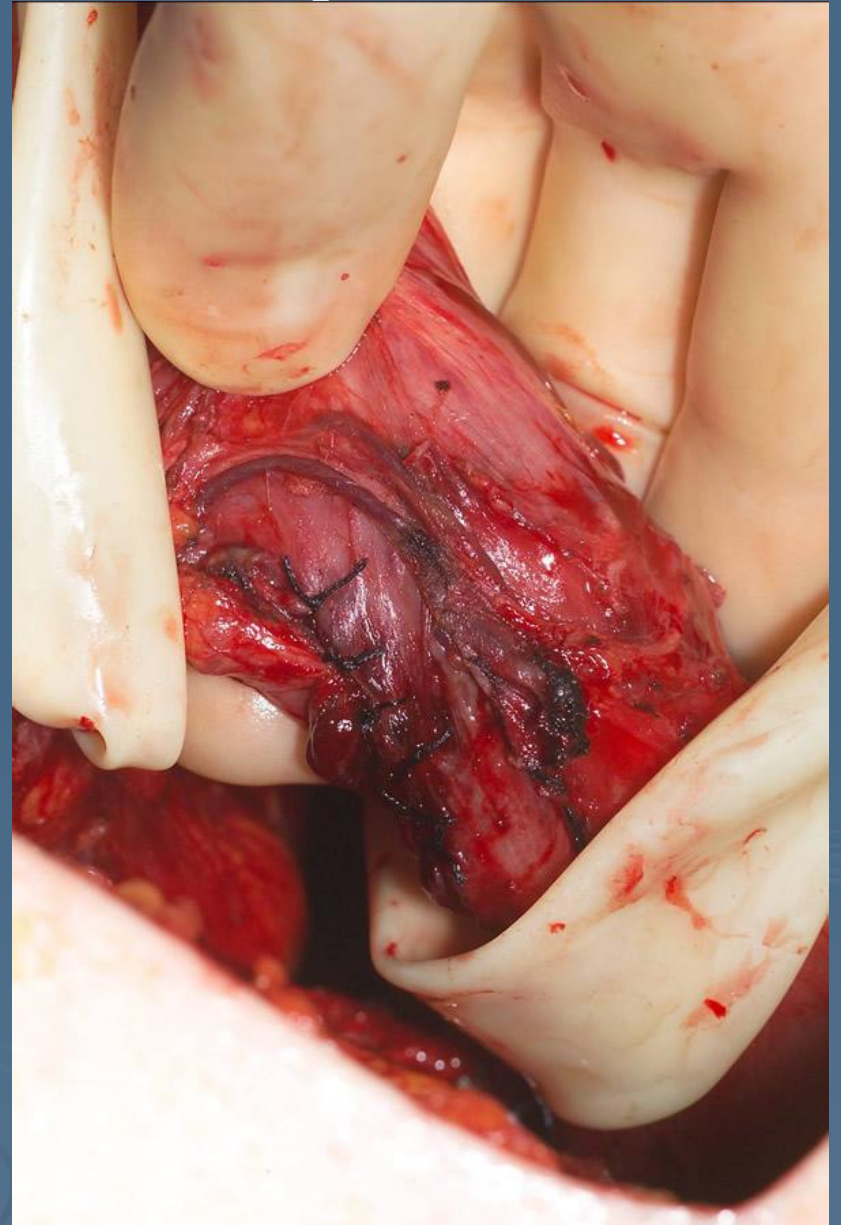
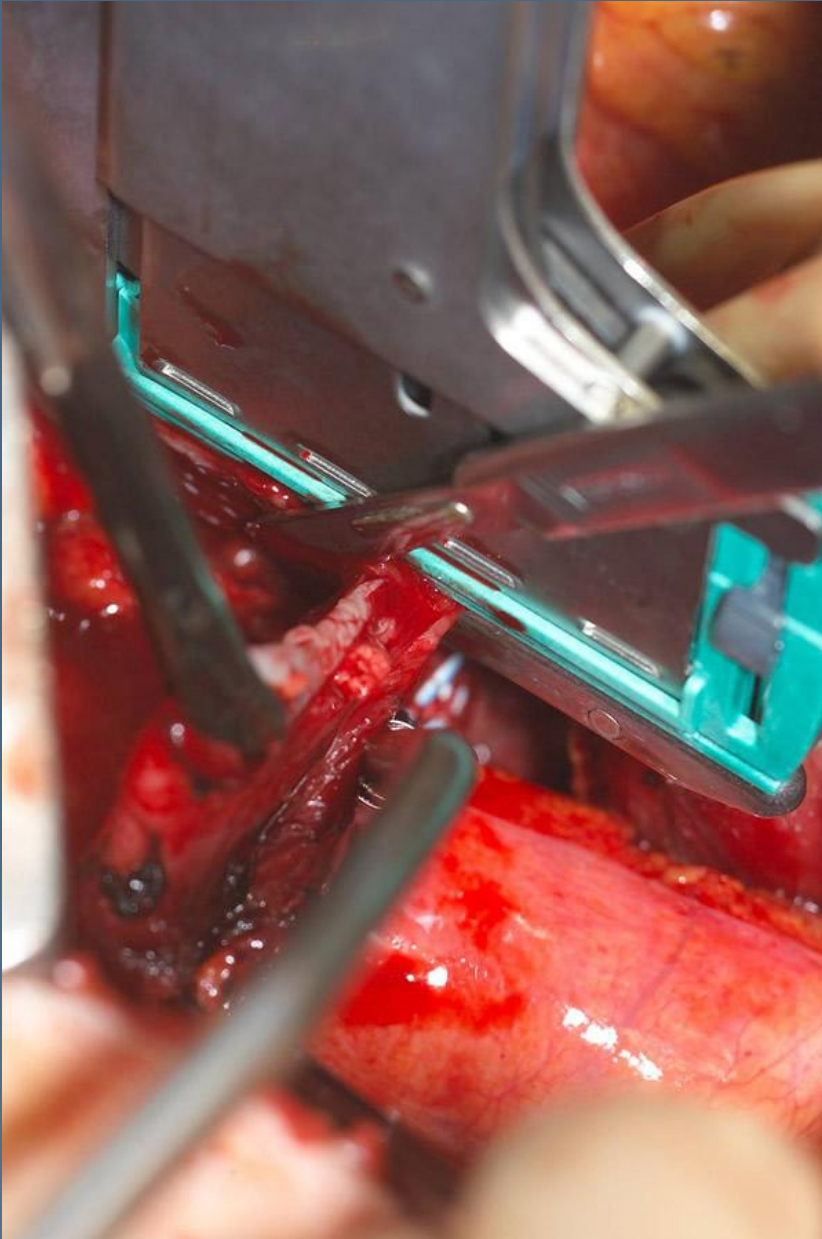
Diverticulectomy



Diverticulectomy



Diverticulectomy



Esophageal achalasia

A rare motor disorder of the esophagus characterized by inability of the lower esophageal sphincter and esophageal muscle to relax as well as dilation of the esophagus

Esophageal achalasia

clinical picture

- Dysphagia (most common)
- Regurgitation
- Chest pain
- Heartburn
- Weight loss

Esophageal achalasia classification

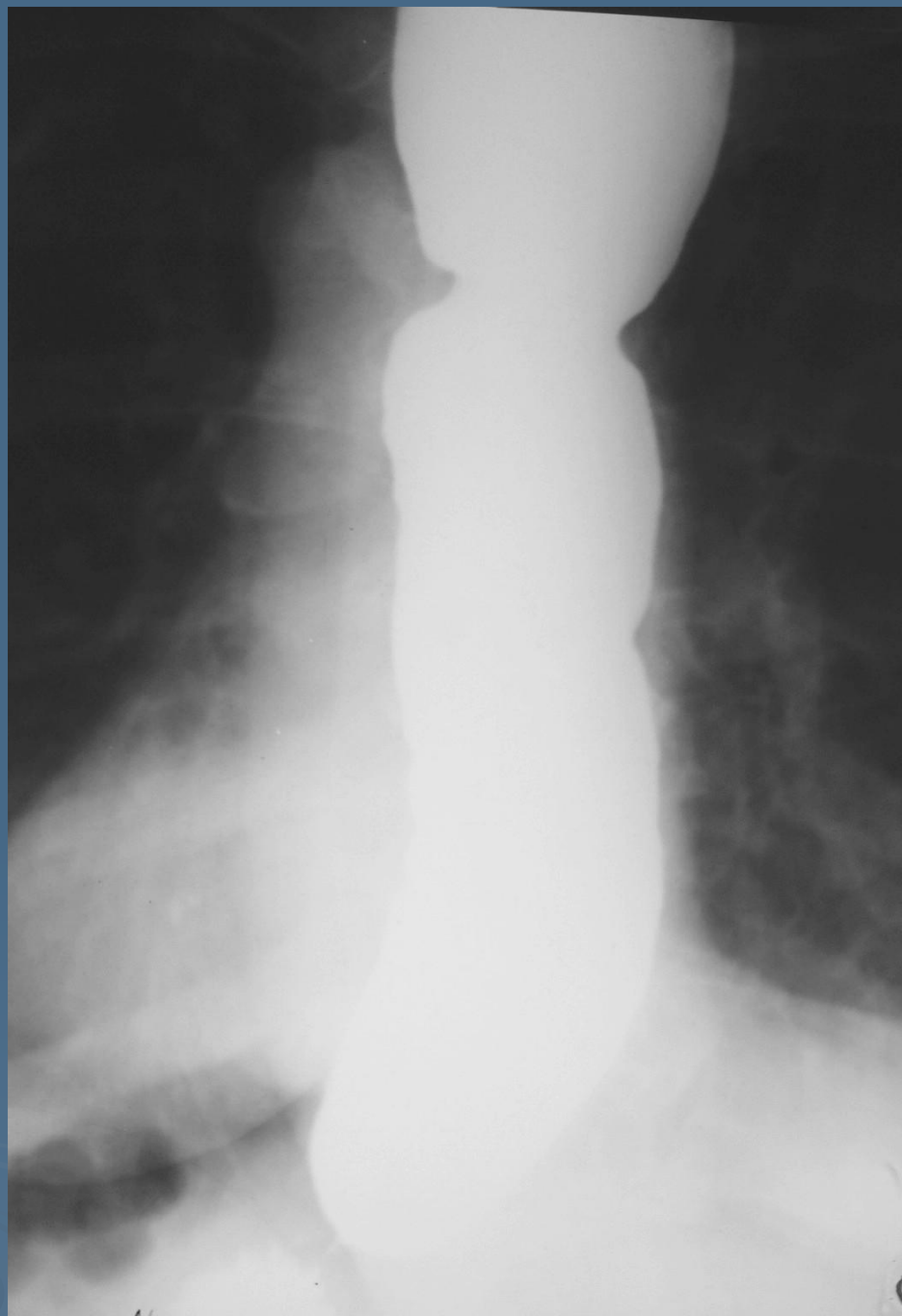
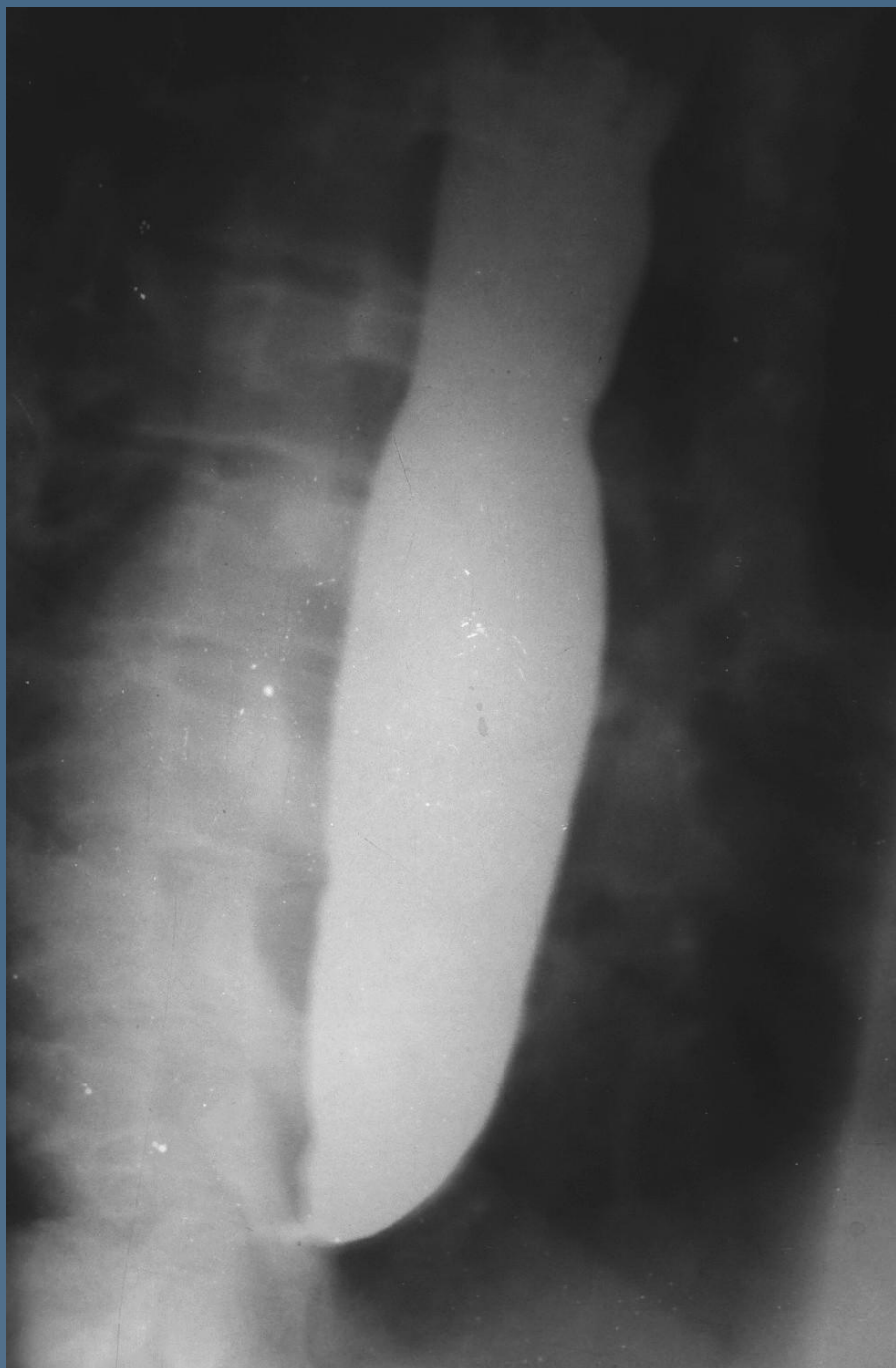
There are four stages:

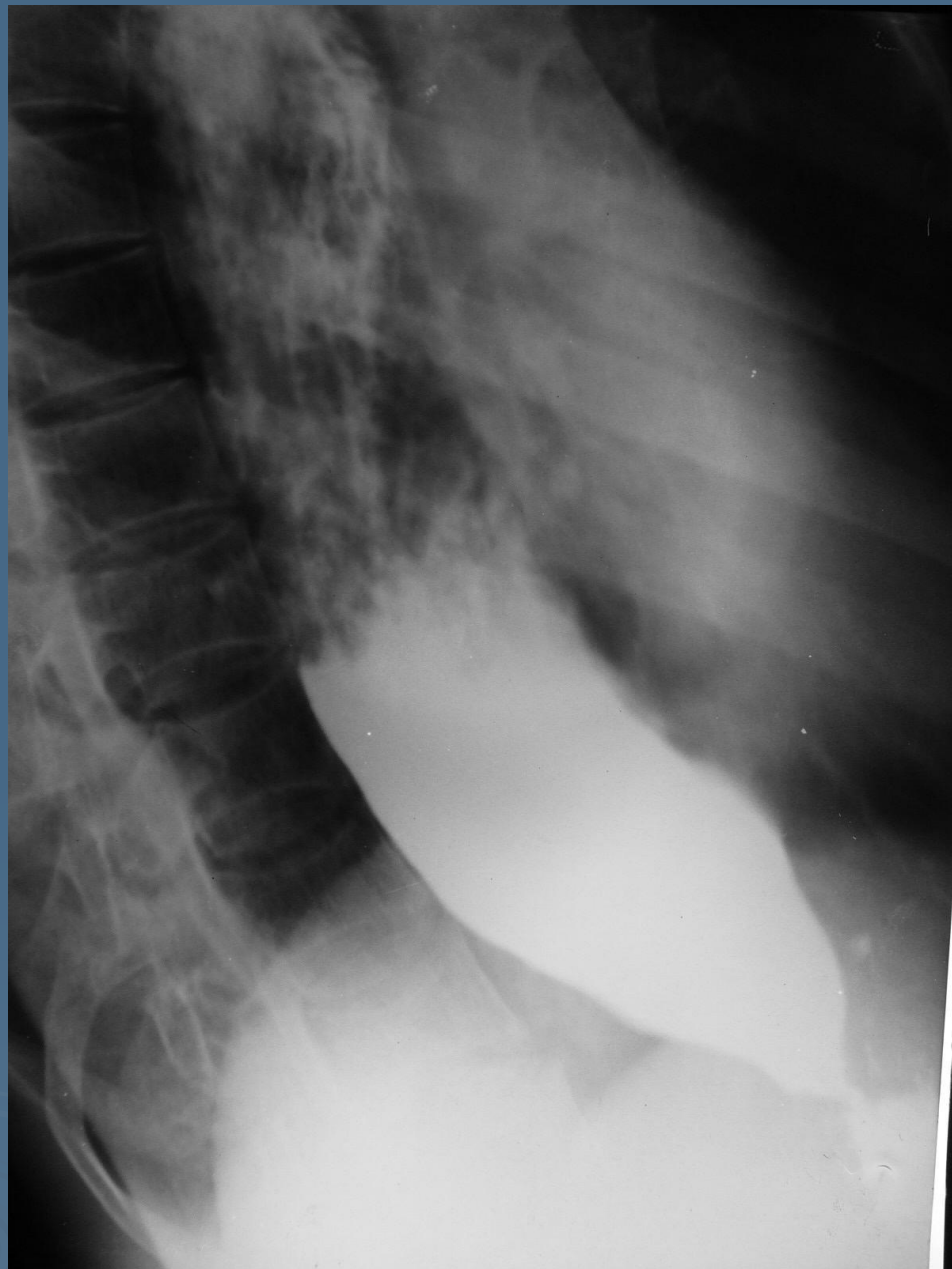
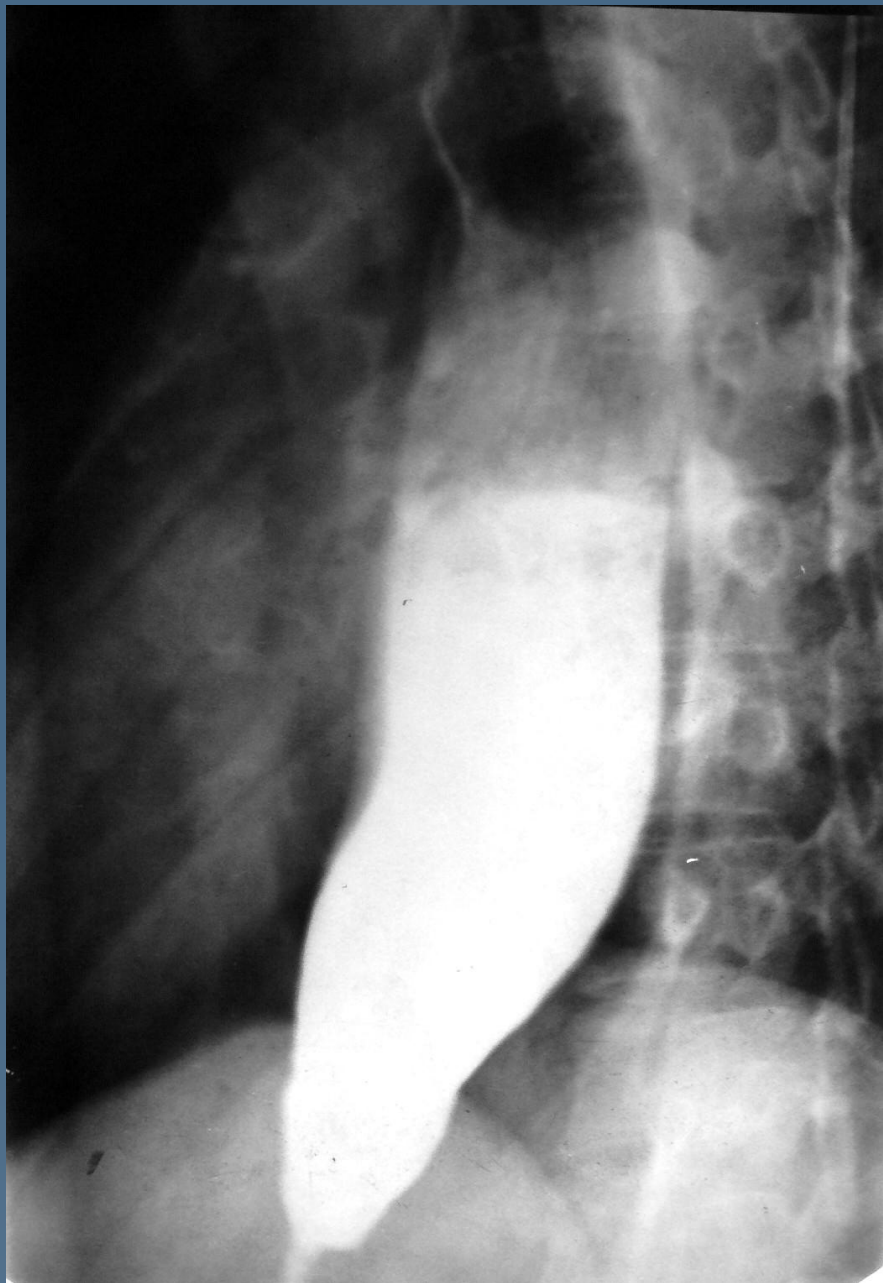
1. Functional spasm with out gullet extension
2. Stable spasm with moderate gullet extension but peristalsis is saved
3. Scar changes of esophageal wall with pronounced its dilatation, peristalsis is absent
4. Pronounced gullet dilatation with its S-type bending and erosive esophagitis

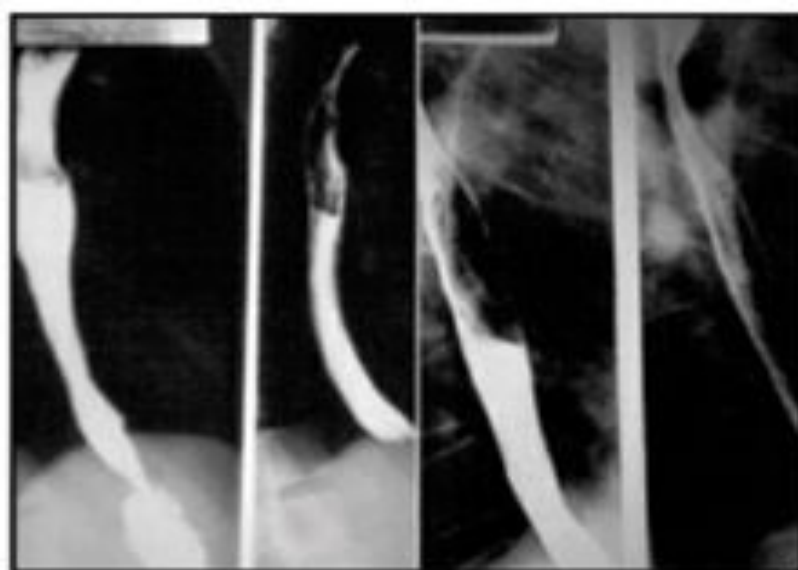
Esophageal achalasia diagnostic

- Contrast esophagography (barium swallowing)
- Fibroesophagoscopy
- Manometry
- Biopsy

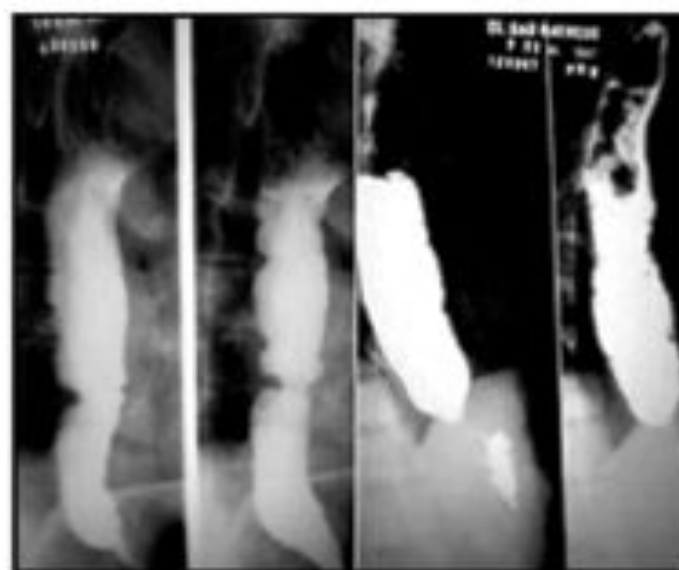




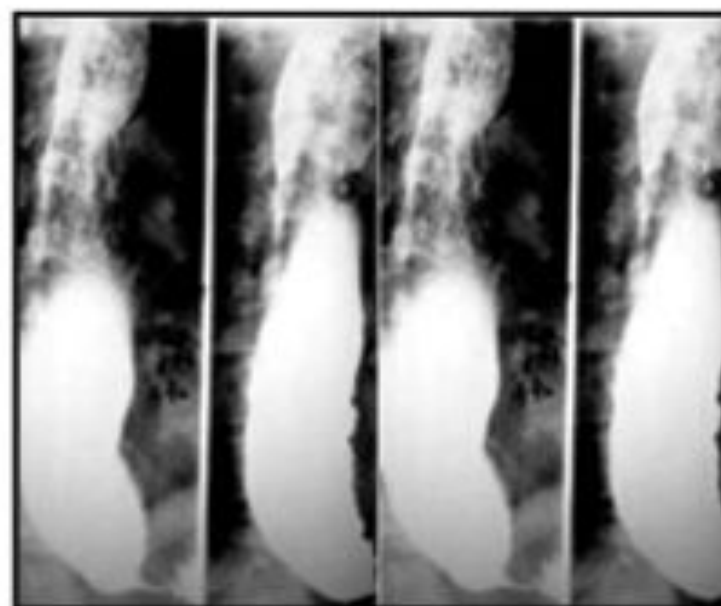




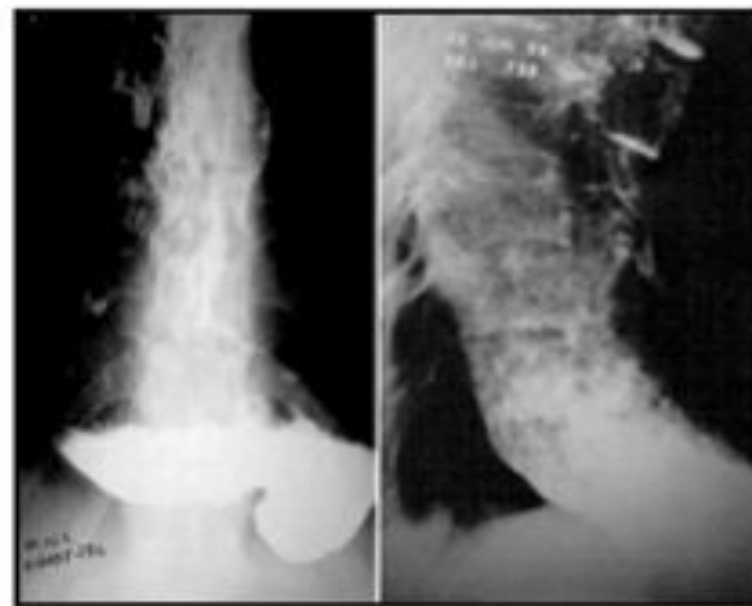
I



II



III



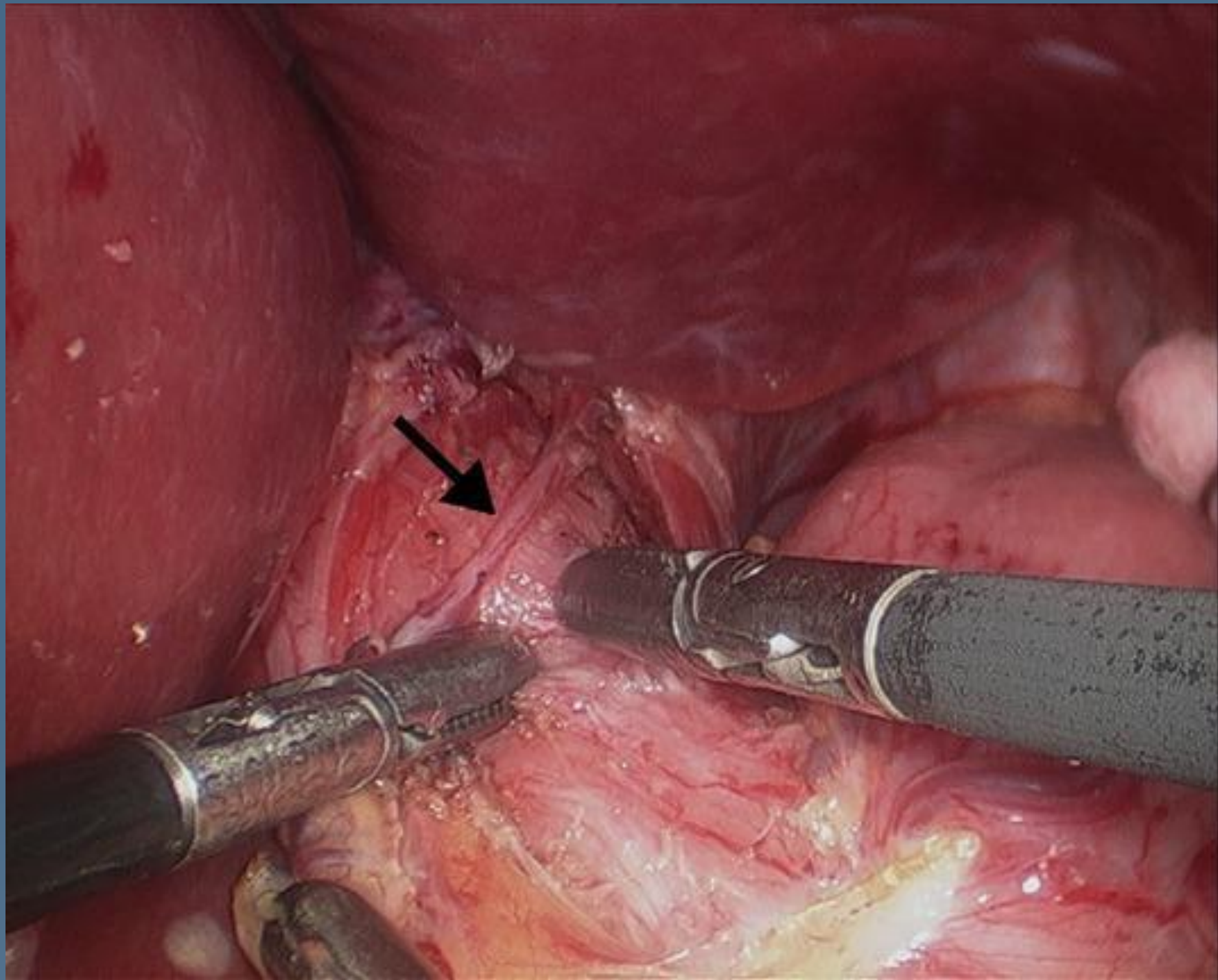
IV

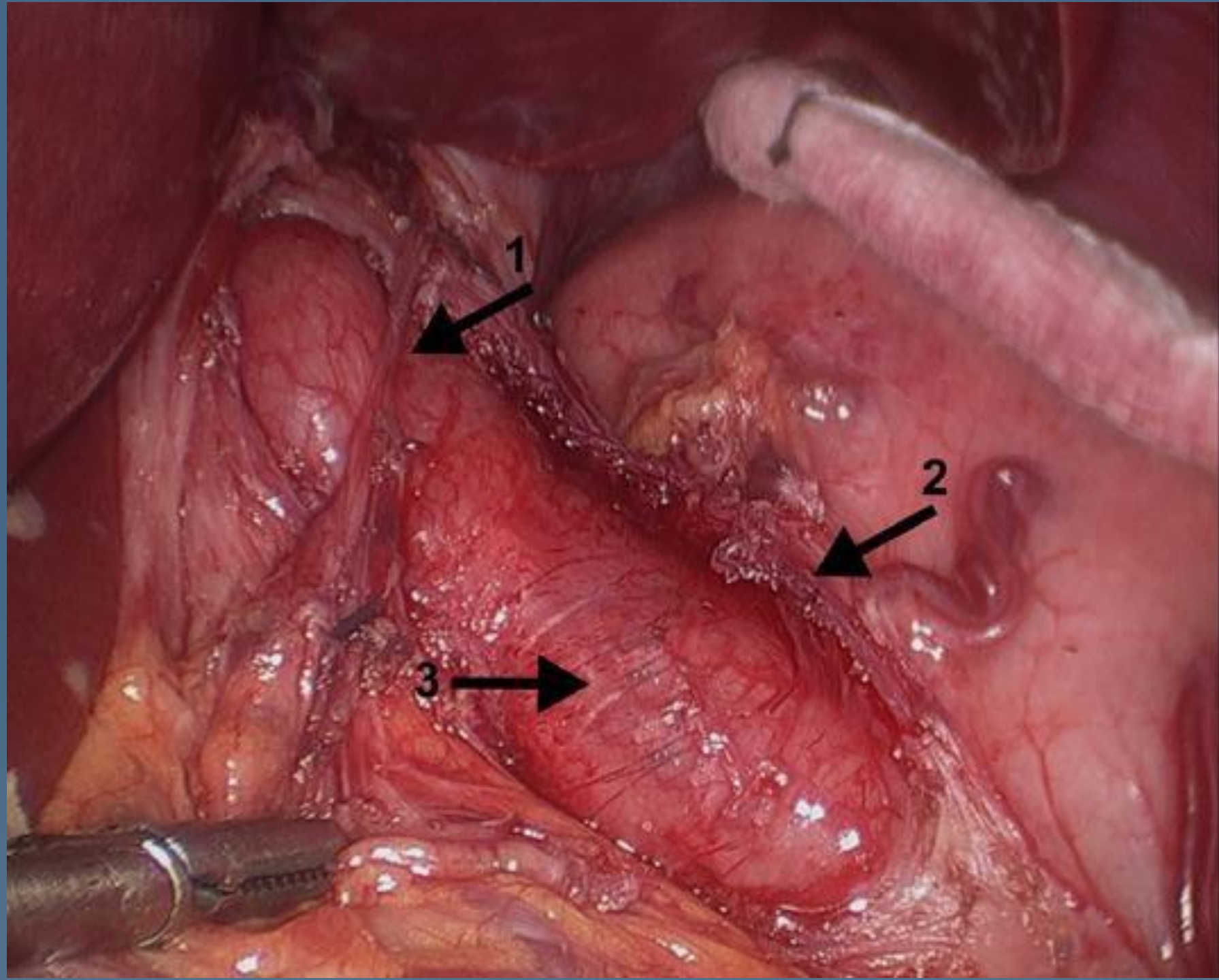
FIGURE 1 - Radiologic classification of achalasia in four groups according to the grade of dilatation motor alterations of the esophagus (Rezende et. al.⁽⁵⁴⁾)

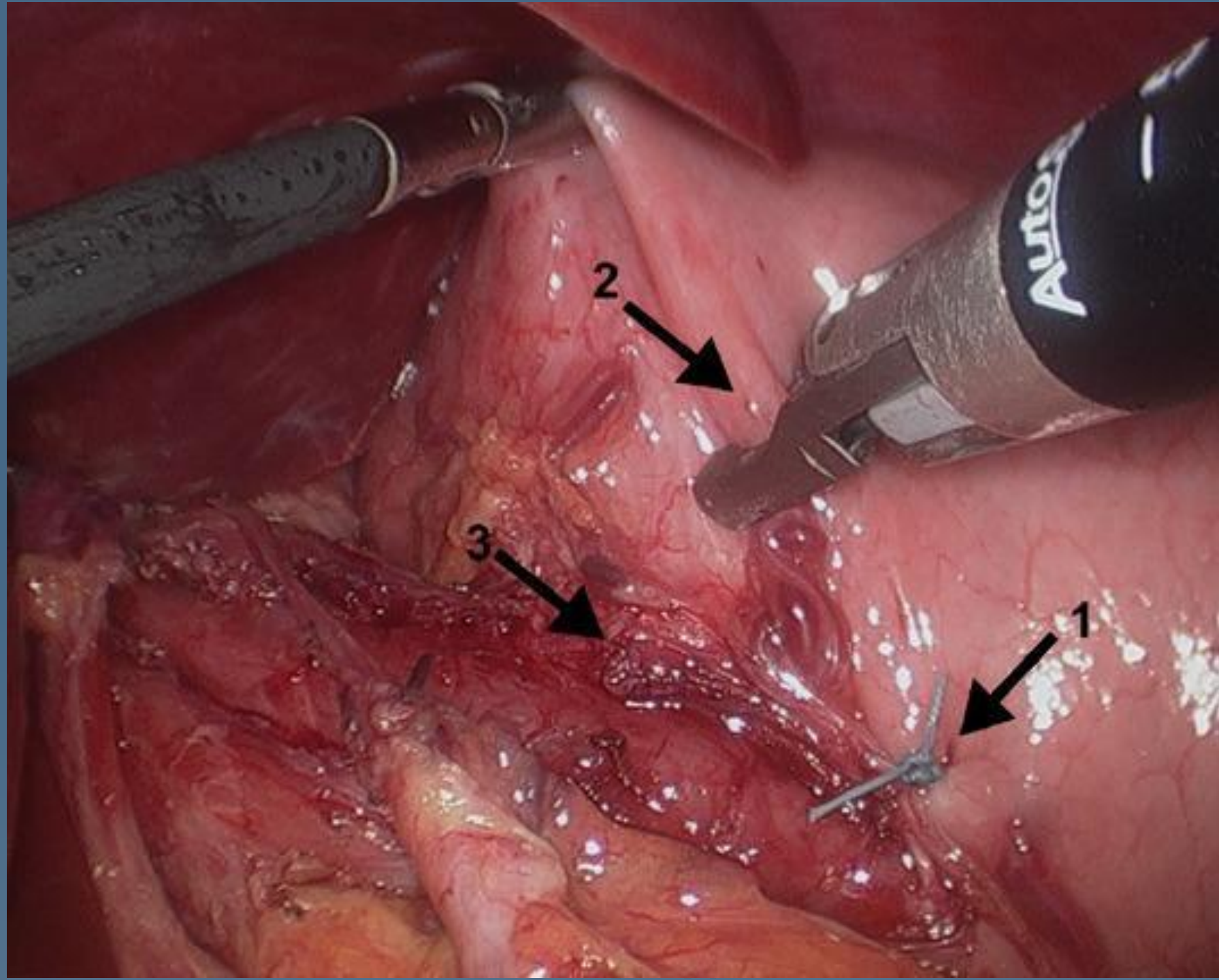


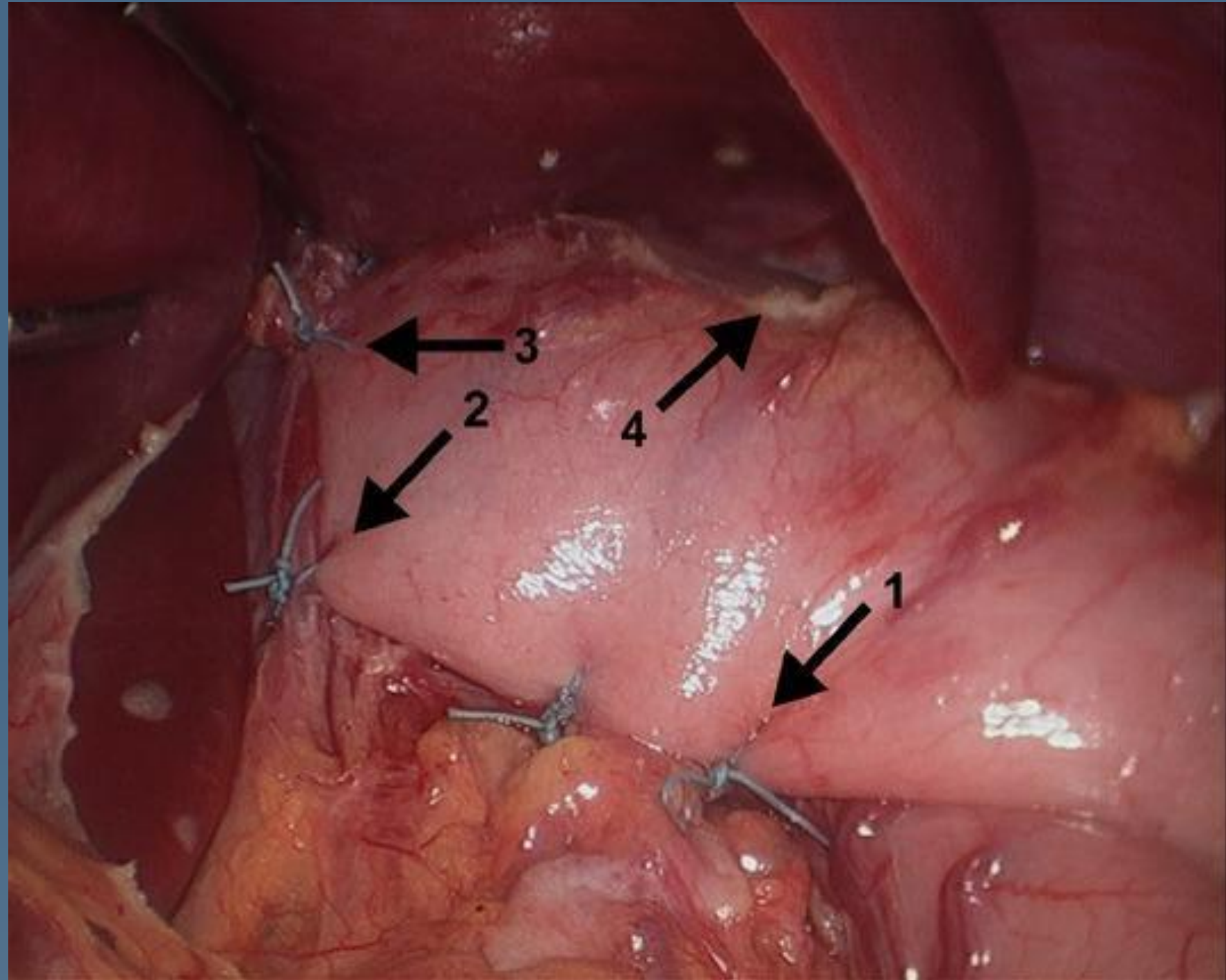
Achalasia treatment

- In 1 and 2 stage – conservative treatment with spasmolitics or its combination with submucose botex injection
- In 1, 2 and 3 stage baloon dilatation is appropriable
- In 3 and 4 stage – just only myotomy by Heller or Petrovskiy could be provided









Esophageal stricture

- An esophageal stricture is a gradual narrowing of the esophagus, which can lead to swallowing difficulties.
- The strictures are caused by scar tissue that builds up in the esophagus.

Esophageal stricture

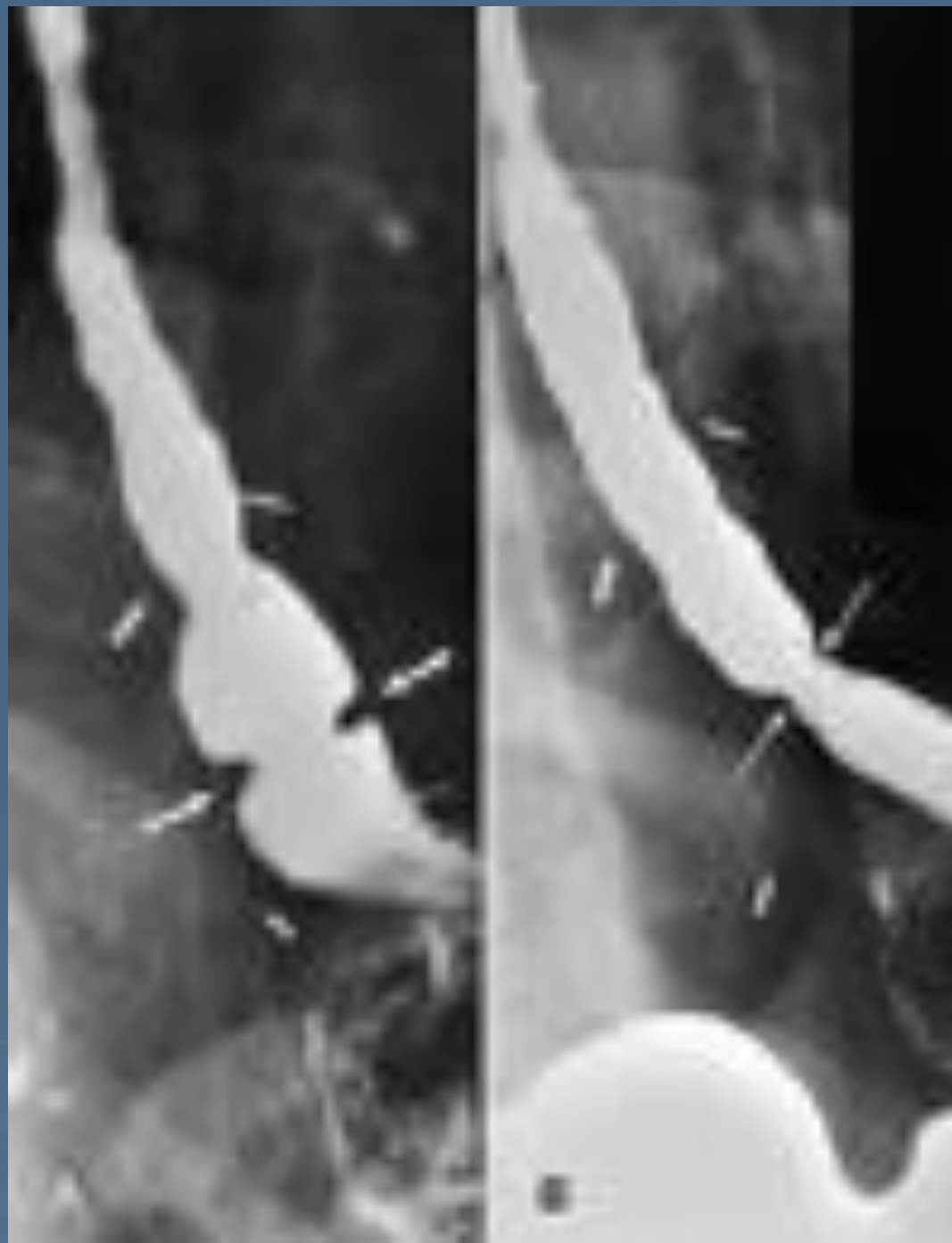
- When the lining of the esophagus is damaged, scarring develops.
- When scarring occurs, the lining of the esophagus becomes stiff.
- In time, as this scar tissue continues to build up, the esophagus begins to narrow in that area.

Esophageal stricture clinical picture

- Heartburn
- Dysphagia
- Odynophagia
- Food impaction
- Weight loss
- Chest pain.

Esophageal stricture diagnostic

- Contrast esophagography (barium swallowing)
- Fibroesophagoscopy
- Biopsy





Esophageal stricture treatment

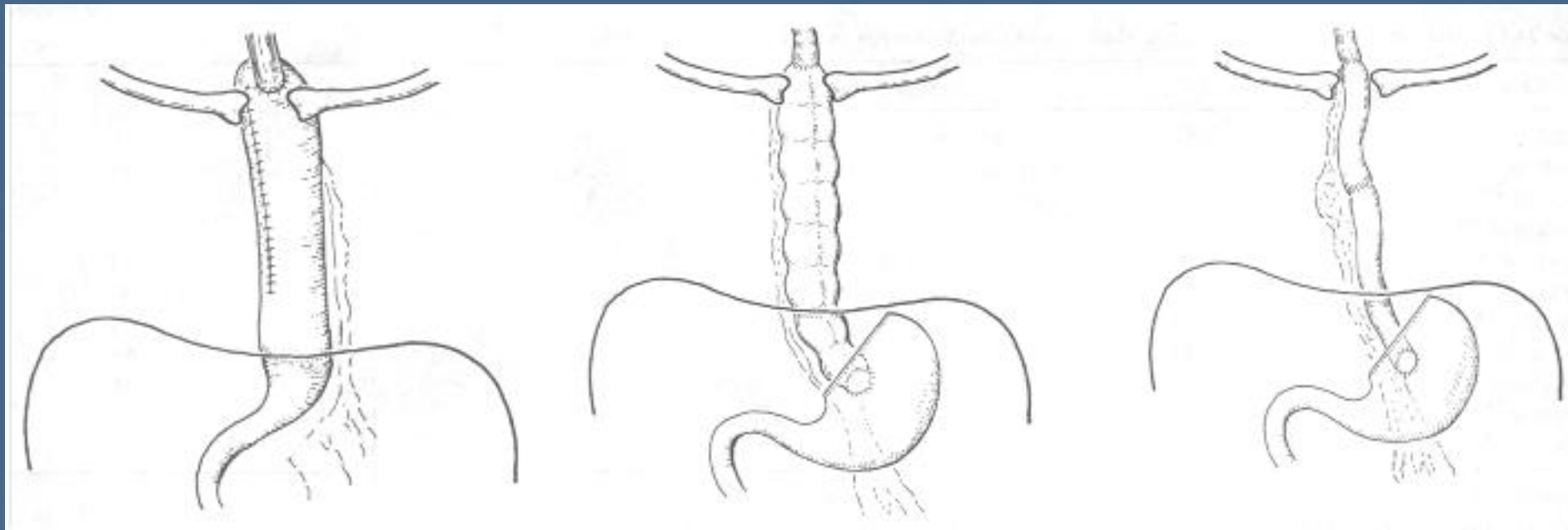
- Dilation. The esophagus is stretched by passing a dilator or air-filled balloon is passed through a endoscope.
- Repeated dilation may be necessary to prevent the stricture from returning.

Esophageal stricture treatment

- If is performed if a stricture can't be dilated enough to allow solid food to pass through.
- Surgery is also performed if repeated dilations do not keep these strictures from returning.

Esophageal bypass grafting (Esophagoplasty)

- Total colonoesophagoplasty
- Total gastroesophagoplasty
- Total jejunoesophagoplasty



Thanks for your attention

