Up Next.....

Dr. Mohan Ramchandani MD DM

- Director of interventional endoscopy at AIG hospitals at Hyderabad,
- Joint Secretary of Society of GI Endoscopy of India
- Adjunct Faculty at Manipal University
- More than 100 international Publications



Dr. Mohan Ramchandani Director of interventional endoscopy AIG hospitals, Hyderabad

Difficult POEM



Mohan Ramchandani

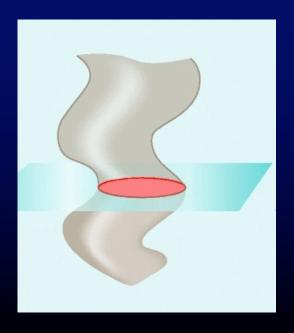
Asian Institute of Gastroenterology Hyderabad, India.

Difficult POEM

- Sigmoid esophagus
- Submucosal Fibrosis
- Jackhammers Esophagus
- Esophageal Diverticulum

Sub mucosal dissection in tortuous esophagus

Guide wire assisted POEM in sigmoid achalasia



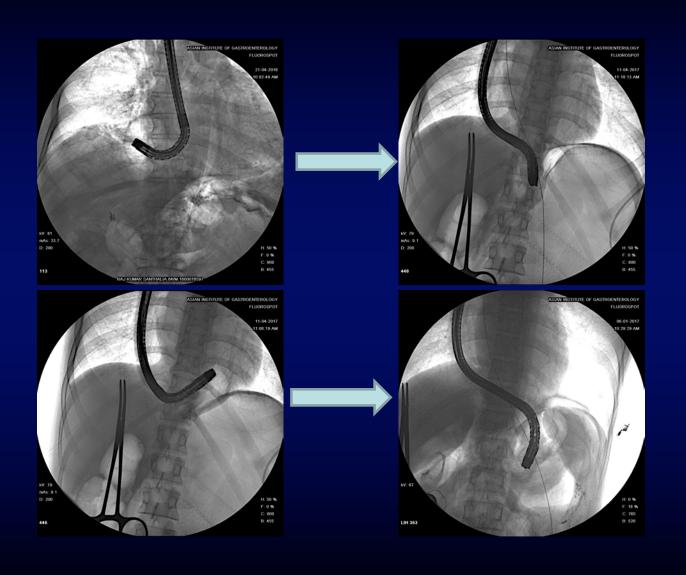
Sigmoid esophagus



Submucosal Dissection in tortuous Esophagus "Lost in tunnel"

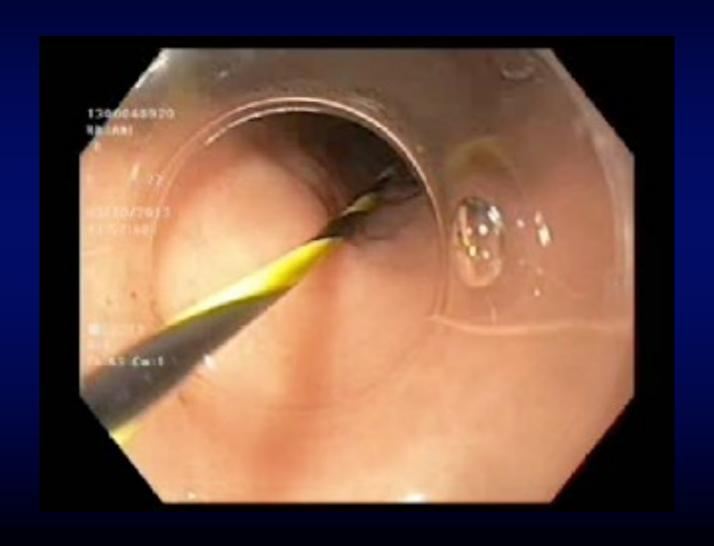


Getting Lost in the Tunnel

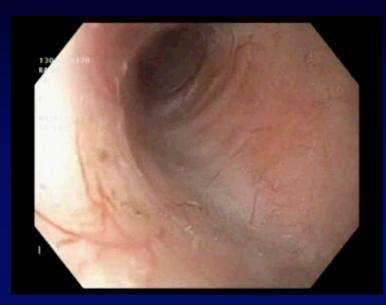


Guidewire Technique

Guidewire

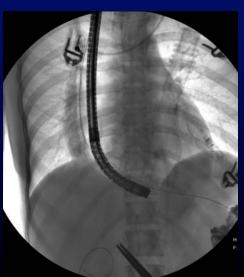


Re-route















2 MIN







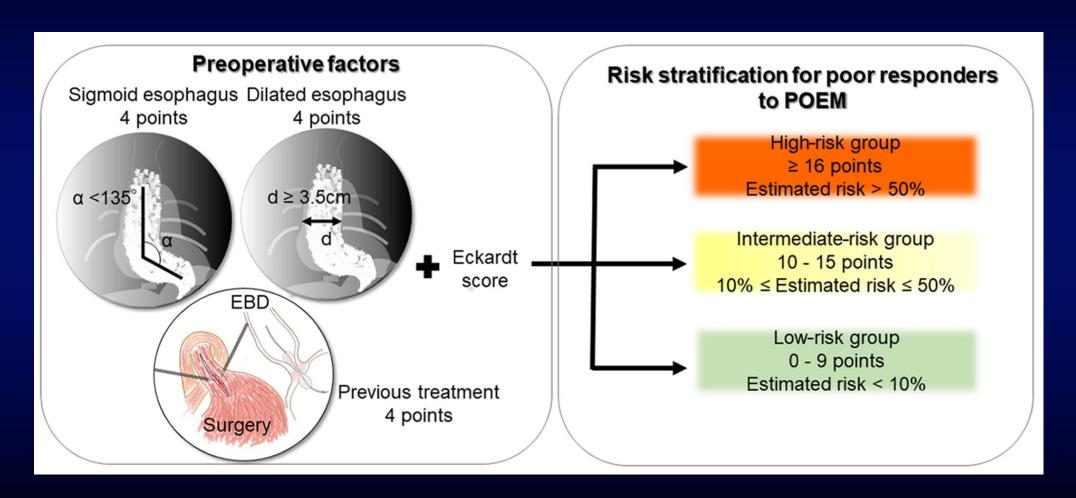
Outcomes of Per-oral Endoscopic Myotomy in Sigmoid and Advanced Sigmoid Achalasia

Zaheer Nabi¹ · Mohan Ramchandani¹ · Jahangeer Basha¹ · Rajesh Goud¹ · Santosh Darisetty¹ · D. Nageshwar Reddy¹

Conclusion

POEM is an effective alternative to HM in cases with sigmoid achalasia. Longer duration of symptoms may be associated with symptom relapse. Relative deterioration in symptoms and high incidence of GERD demand close follow-up of these patients after POEM.

Poor Responders

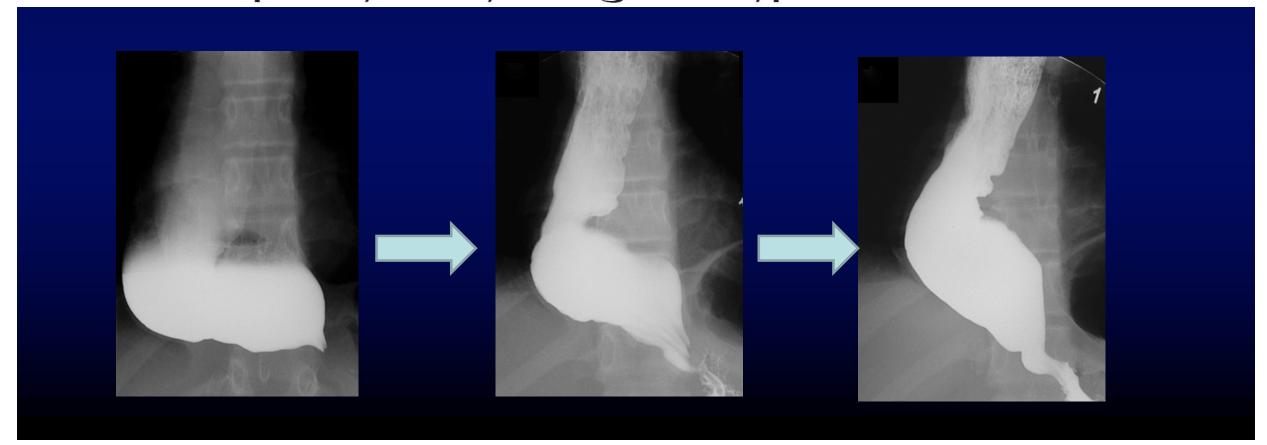




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Original Article

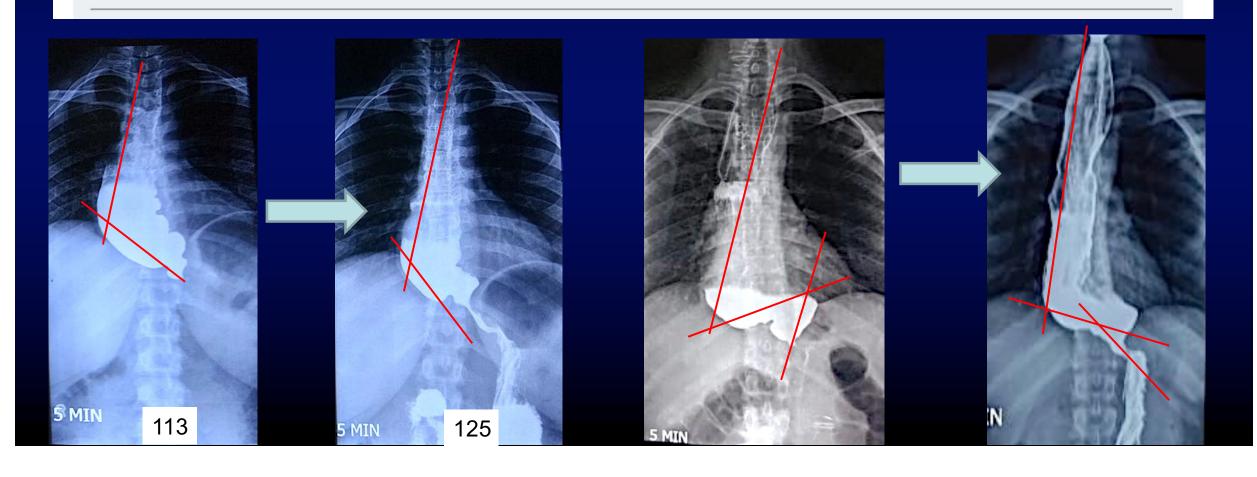
Morphologic Restoration After Peroral Endoscopic Myotomy in Sigmoid-type Achalasia



J Neurogastroenterol Motil https://doi.org/10.5056/jnm20084

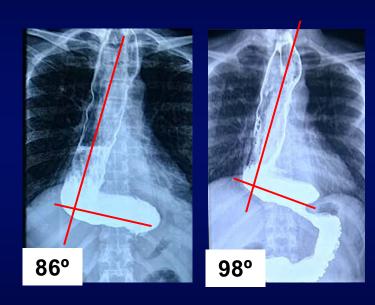
Quantification of Esophageal Angulation in Sigmoid Achalasia: Are We There Yet?

Zaheer Nabi * and D Nageshwar Reddy
Asian institute of Gastroenterology, Hyderabad, India



POEM in Sigmoid Achalasia: Take Home Message

- Avoid/ delay if severe stasis esophagitis
- Avoid excess coagulation
- Be prepared for double tunnel
- Guidewire technique if lost
- Re-look endoscopy in selected cases
- Objective Success: look for angles



POEM – Submucosal fibrosis

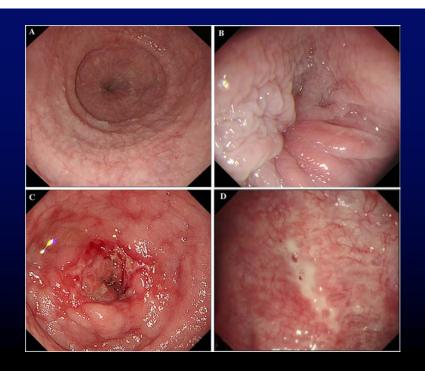


Original Article

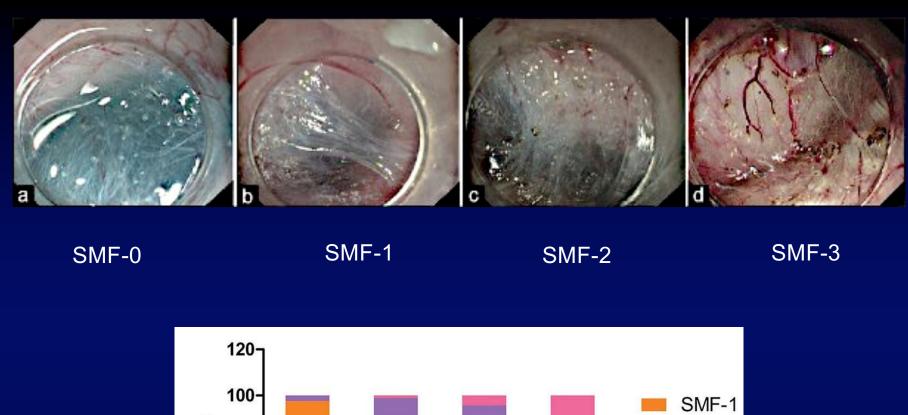
New endoscopic classification of esophageal mucosa in achalasia: A predictor for submucosal fibrosis

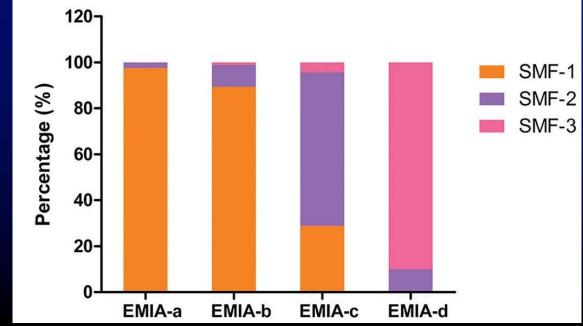
Xiuxue Feng, Enqiang Linghu, Ningli Chai, Hui Ding

Department of Gastroenterology, Chinese PLA General Hospital, Beijing, People's Republic of China



- A. Granular mucosa without obvious vascular texture
- B. Mucosa is pachyntic, striated, or like sulcus
- C. Ulcer in the mucosa
- D. Scar in the mucosa





How to deal with Submucosal fibrosis?





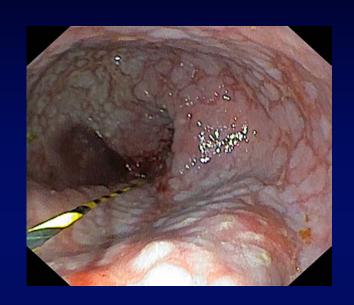
When and why to delay?





- Thick and friable mucosa
- Submucosal fibrosis
- Clip side dehiscence





Difficult Submucosal dissection



Submucosal Tunneling



Inadverent Mucosal Incision - Extension



Myotomy

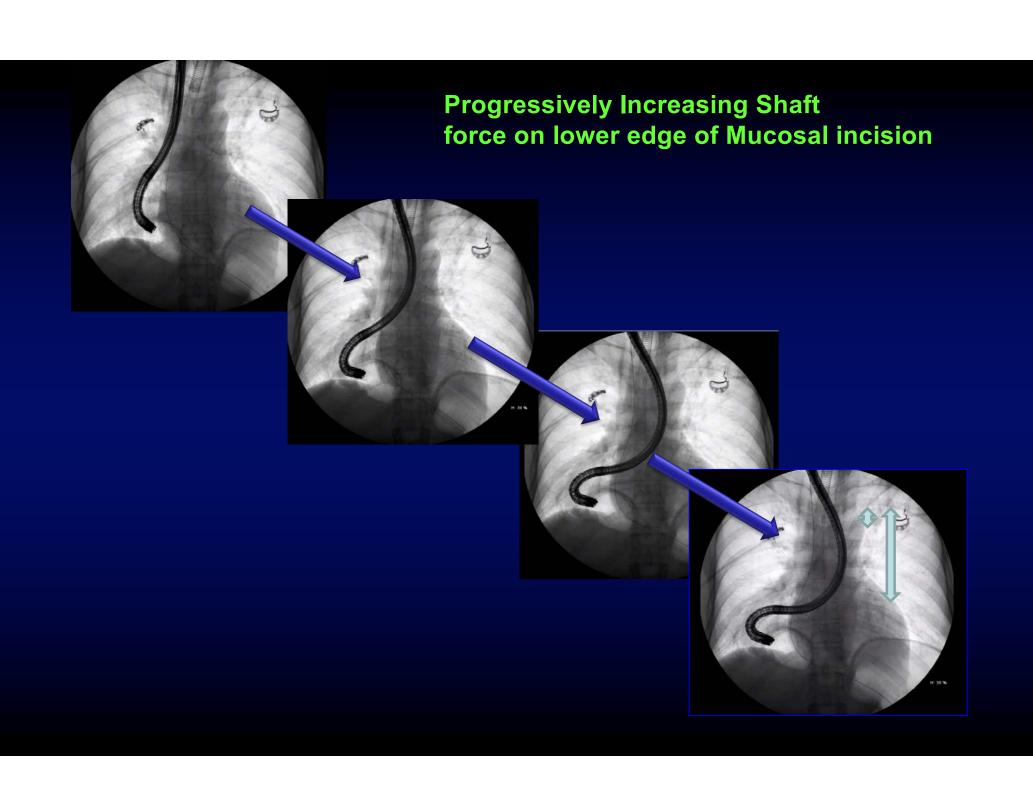


Clipping



Inadvertent Extension of Mucosal Incision

- Extension of incision during entry
- Submucosal fibrosis
- Tight GE junction
- Limited space for scope movements



Flouroscopy

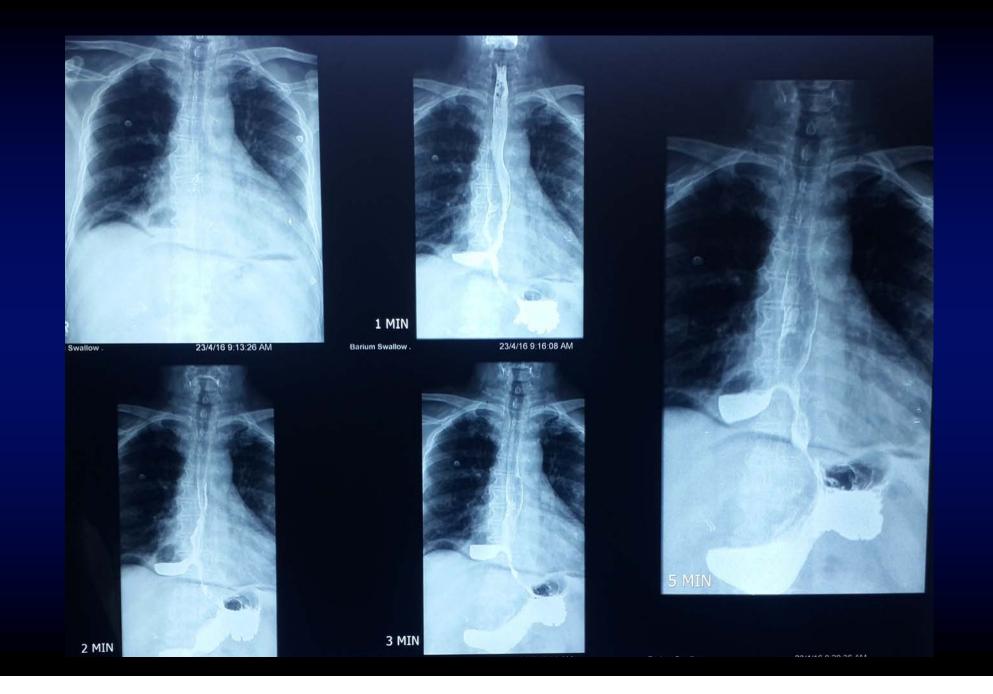


Esophageal Diverticulum



Large Oesophageal Diverticulum





Difficult dissection at GE Junction

Myotomy-submucosal dissection-myotomy

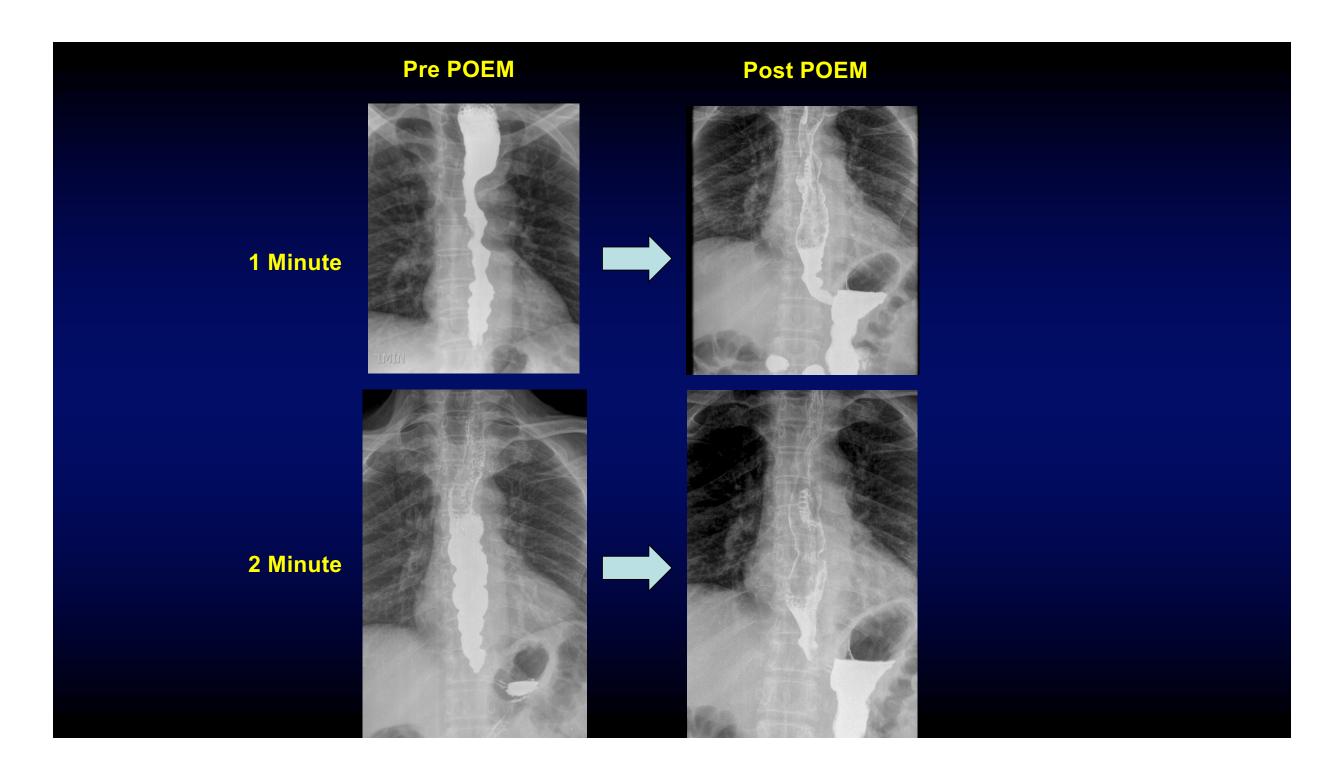


Pre-POEM

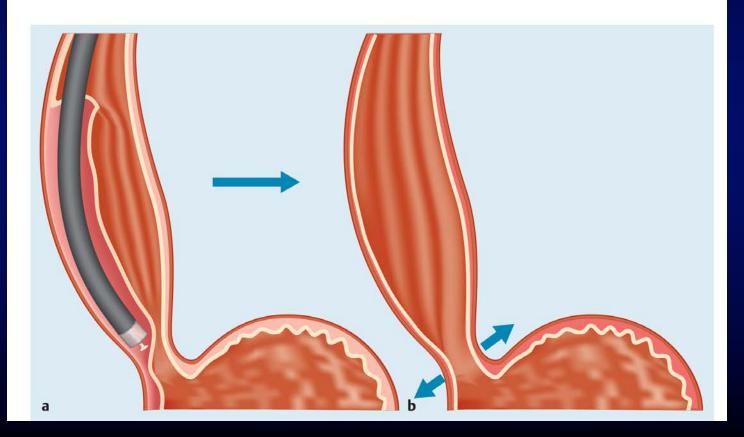








Novel technique to relax the lower esophageal sphincter during challenging peroral endoscopic myotomy (POEM)



What to do in case of bleeding?

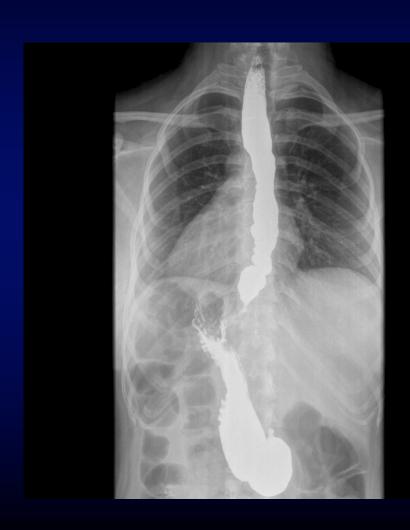


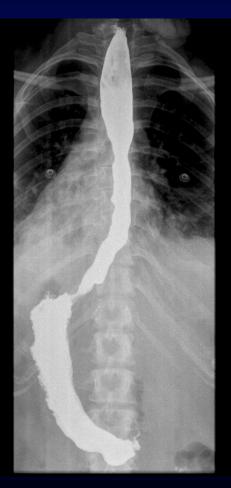
Management of delayed bleeding in achalasia cardia patient after per-oral endoscopic myotomy

Pradev Inavolu, Zaheer Nabi, Santhosh Darisetty, Mohan Ramchandani, D. Nageshwar reddy

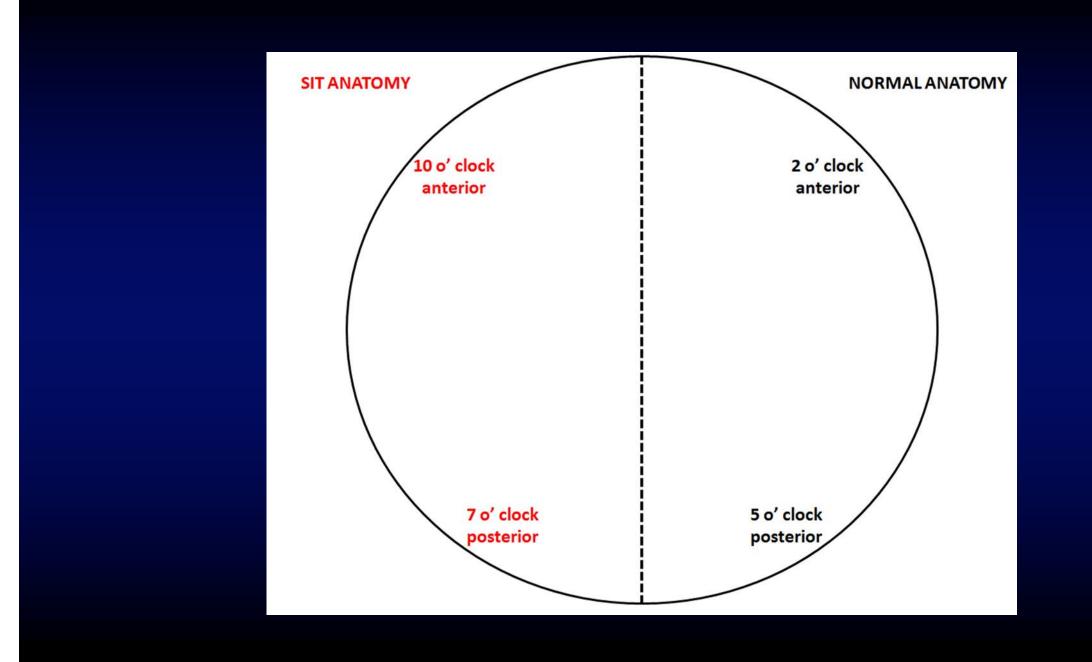
AIG Hospitals and Asian Institute of Gastroenterology, Hyderabad, Telangana, India.

Situs Inversus



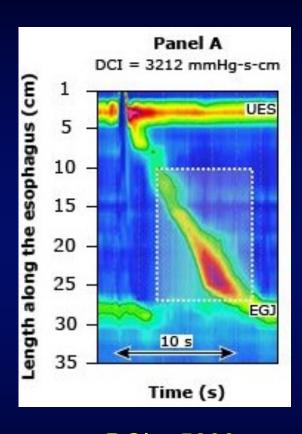


1 MIN

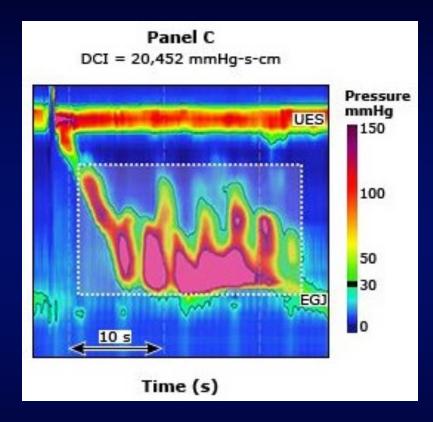


Normal

Hypercontractile Esophagus (Jackhammer)



DCI < 5000

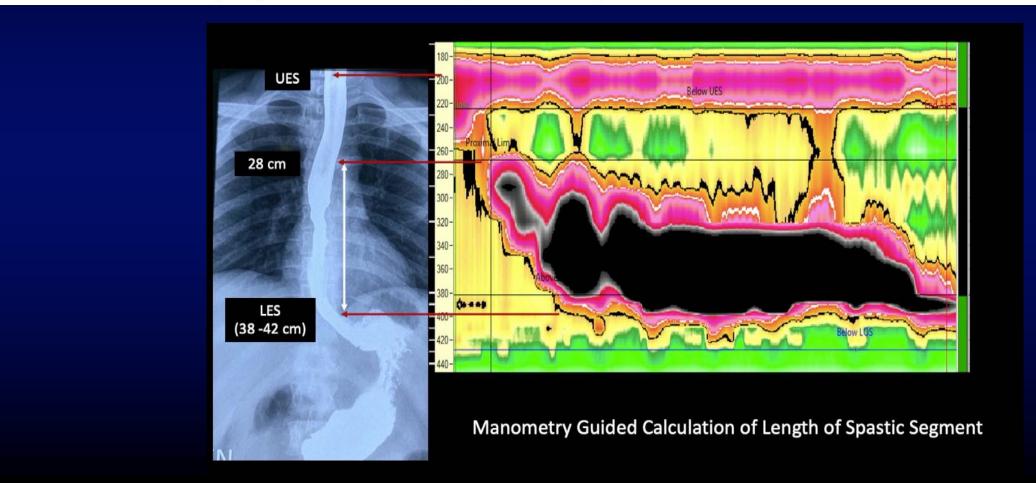


≥ 1 wet swallow with DCI > 8,000 mmHg · cm · sec

Normal distal latency and normal IRP

High-resolution manometry–guided endoscopic myotomy in a case with jackhammer esophagus

Zaheer Nabi, MD, DNB, Radhika Chavan, MD, DNB, Manohar Reddy, MD, DNB, Jahangeer Basha, MD, DM, Arun Karyampudi, MD, DM, D. Nageshwar Reddy, MD, DM



Myotomy in spastic Achalasia: "How long is long enough"?

How to chose length of myotomy

Tips and tricks to avoid complications

Jackhammer esophagus

To cut or not to cut GE junction

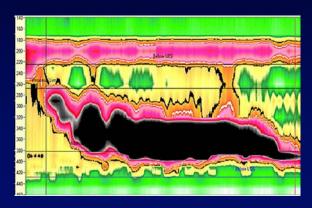
Distal esophageal spasm

Jackhammer and DES: To cut or spare LES?

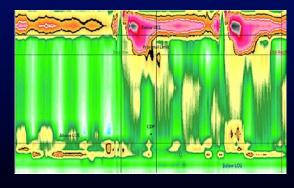
Yes

- Ineffective peristalsis
- Reflux not major issue
- Risk of dysphagia
- LES involved

(some cases of JHE)



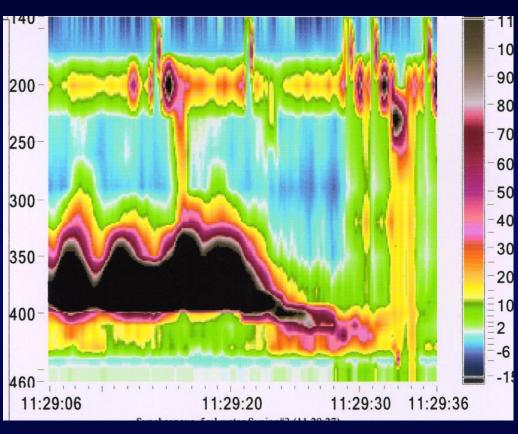




No

- High reflux
- LES not at fault









Pre POEM

Take Home Message

- Short=long myotomy in type I and II achalasia
- Exceptions: Spastic segment?
- Long myotomy: Spastic achalasia
 - Type III achalasia
 - Jackhammer esophagus
 - Diffuse esophageal spasm



Summary and conclusion

- POEM promises to be an important step in endoscopic interventions
- Difficult POEMs include sigmoid esophagus, Submucosal fibrosis, diverticulum etc
- Serious adverse events are rare if one is cautious
- Learning curve is important

Alternative Procedures

 If procedure could not be completed using standard POEM, alternative techniques were adopted.

- Guidewire Assisted POEM
- Myotomy Submucosal dissection-Myotomy
- Dissection of fibrotic tissue choice of Cautery?

Thank you