Third space endoscopy concepts and Basics

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Berenson Scholarship in Advanced endoscopy, BIDMC, Harvard Medical School.

Peter Cotton traveler fellowship ,MUSC,USA

Advanced endoscopic fellowship PLA GH , Bejing

Member of WEO Committee for SMII

General secretary of ESDE

General secretary of ARSGE

Member OF ASGE, ACGE, WEO

Agenda

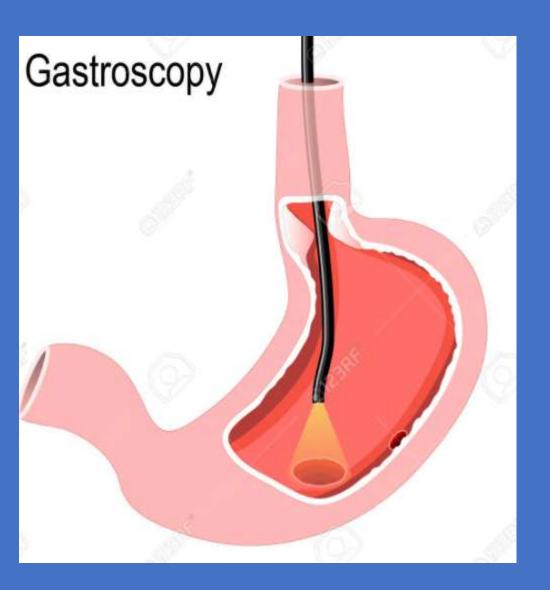
- Background
- Applications
- Basic Steps
- Rules to follow
- Management of complications
- Be flexible with strategy
- Break borders
- Take home messages

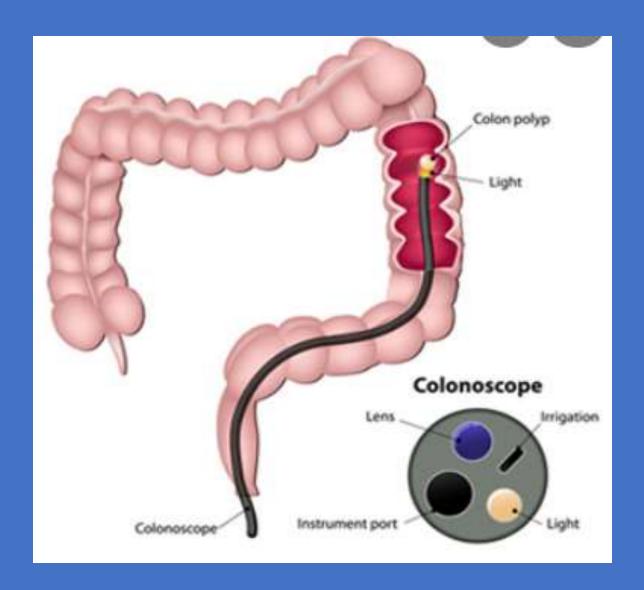


Background

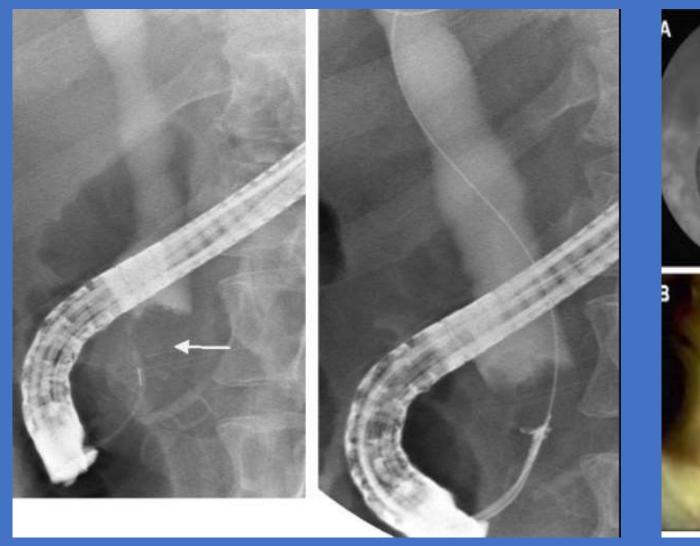


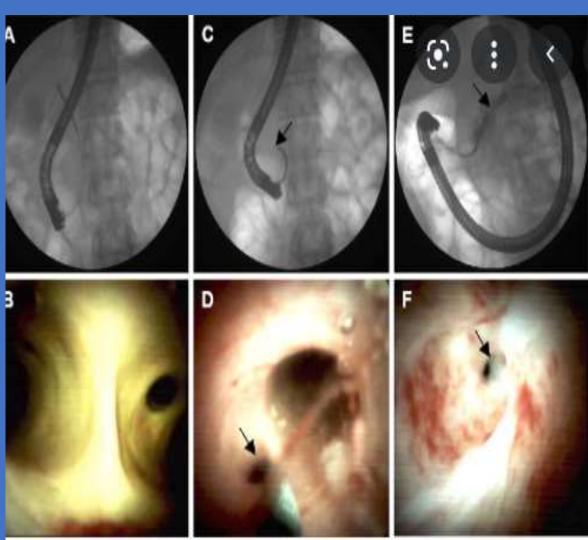
First space





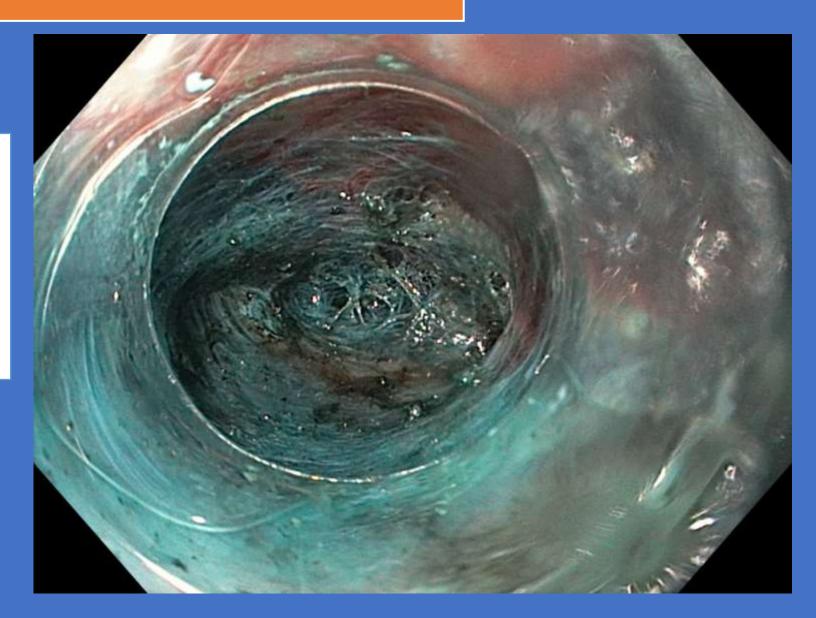
Second space





Third space

working inside the GIT tract wall ,Not the GIT tract lumen through creation of a tunnel in the submucosa



ESS = Endoscopic Submucosal Surgeries

ESS

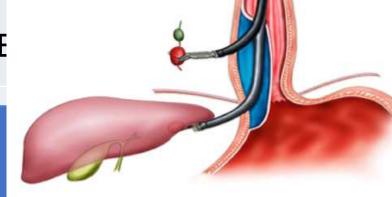
Muscle

Mucosa

Outside GI wall

Myotomy

Tumorectomy



POEM

G-POEM

STER

Werner and Rosch et al., Curr Treat Options Gastro 2016; 14:163-177

History of ESS

Myotomy

POEM

Original article 265

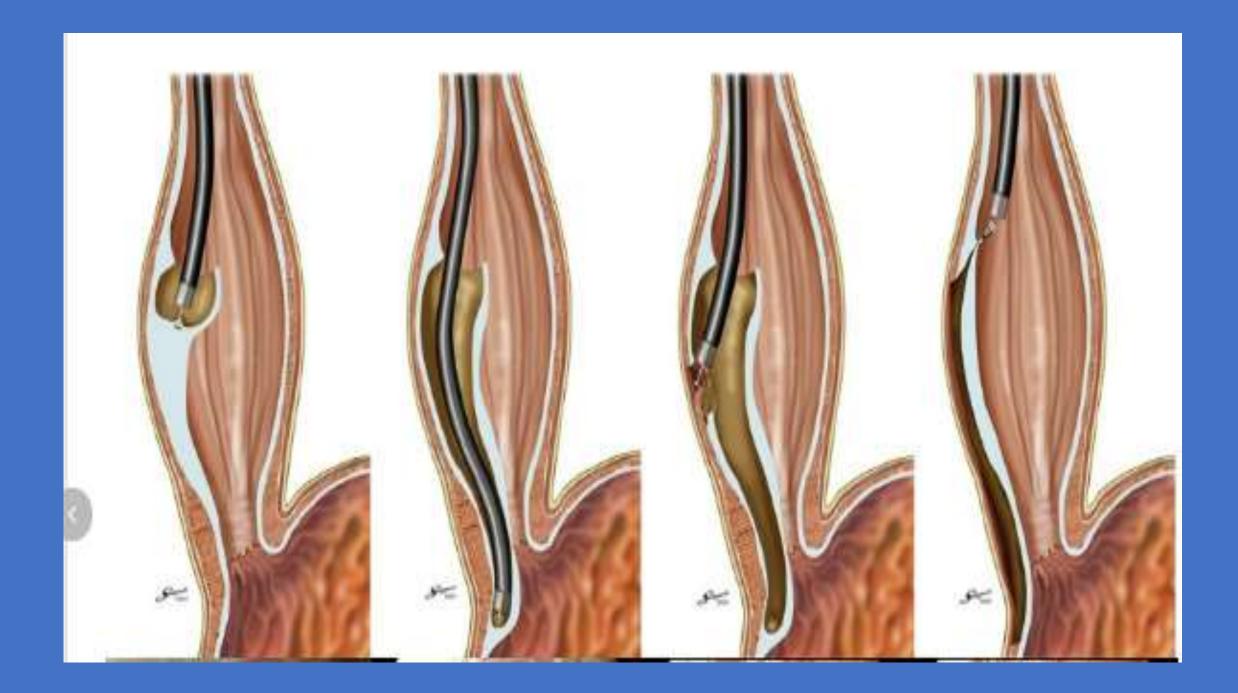


Peroral endoscopic myotomy (POEM) for esophageal achalasia

Authors Institution H. Inoue, H. Minami, Y. Kobayashi, Y. Sato, M. Kaga, M. Suzuki, H. Satodate, N. Odaka, H. Itoh, S. Kudo

Digestive Disease Center, Showa University Northern Yokohama Hospital

Inoue (2010)



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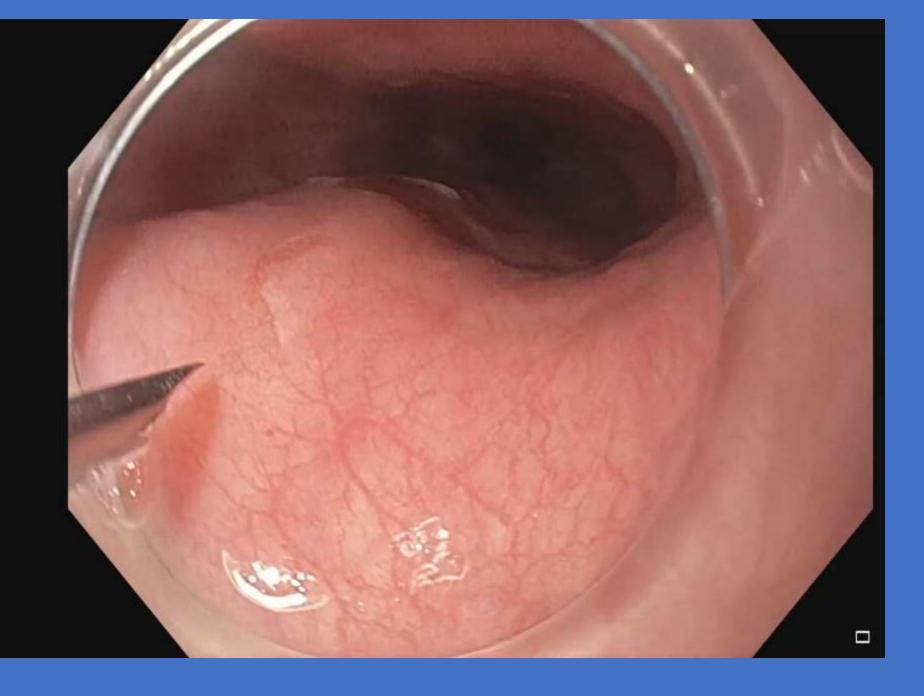
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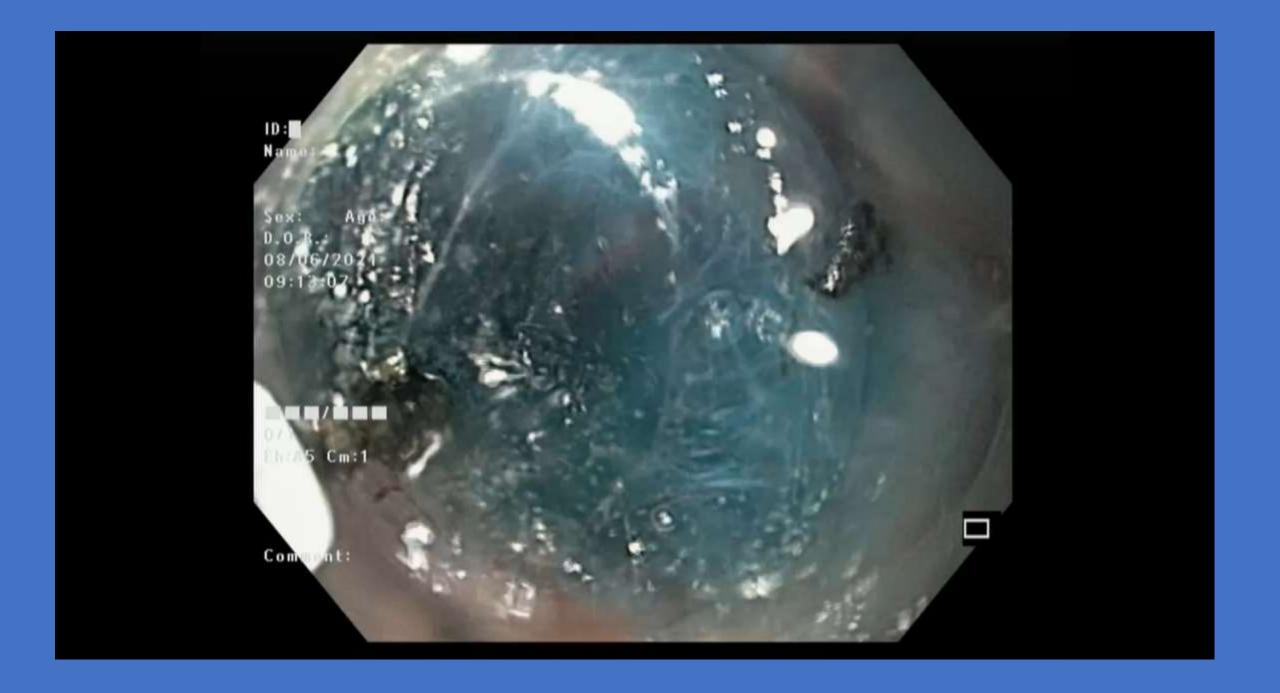
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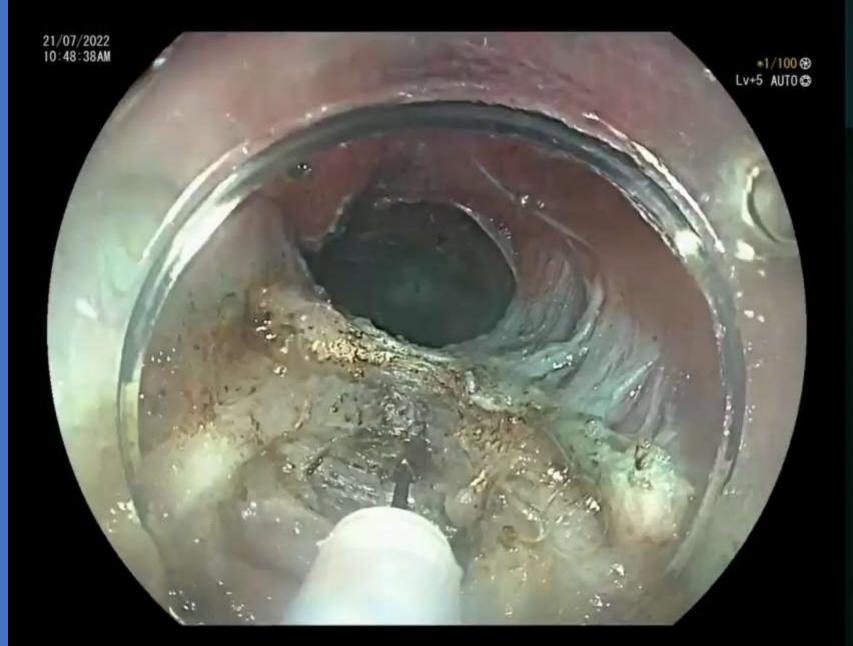
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How to implement

Achalasia

Type I Type II Type III

- Graduated balloon dilation
- Myotomy (Surgical, endoscopic)
- Botulism toxin injection

Other motility disorders

ACG Clinical Guidelines: Diagnosis and Management of Achalasia

Michael F. Vaezi, MD, PhD, MSc, FACG¹, John E. Pandolfino, MD, MS, FACG², Rena H. Yadlapati, MD, MHS (GRADE Methodologist)³, Katarina B. Greer, MD, MS⁴ and Robert T. Kavitt, MD, MPH⁵

In patients with achalasia who are candidates for definite therapy:

- PD, LHM, and POEM are comparable effective therapies for type I or type II achalasia.
- POEM would be a better treatment option in those with type III achalasia.
- Botulinum toxin injection is reserved for those who cannot undergo the above definitive therapies.

We recommend that POEM and LHM result in comparable symptomatic improvement in patients with achalasia.

Moderate

Strong

Recommendations

- In patients with failed initial myotomy (POEM or laparoscopic Heller myotomy), we suggest pneumatic dilation or redo myotomy using either the same or an alternative myotomy technique (POEM or laparoscopic Heller myotomy). ⊕ ○ ○ ○
- 5. We suggest that patients undergoing POEM are counseled regarding the increased risk of postprocedure reflux compared with pneumatic dilation and laparoscopic Heller myotomy. Based on patient preferences and physician expertise, postprocedure management options include objective testing for esophageal acid exposure, long-term acid suppressive therapy, and surveillance upper endoscopy.

 Output

 Description:
- We recommend pneumatic dilation compared with botulinum toxin injection for patients with achalasia. ⊕ ⊕ ⊕
- 8. We suggest that POEM and laparoscopic Heller myotomy are comparable treatment options for management of patients with achalasia types I and II, and the treatment option should be based on shared decision-making between the patient and provider.

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ASGE guideline on the management of achalasi



Mouen A. Khashah, MD, ^{Le} Marcelo F. Vela, MD, ^{Le} Nirar Thosani, MD, ^{Le} Deepak Agrawal, MD, MPH, MBA, ^{Le} James L. Buxhaum, MS, FASGE, ⁵ Syed M. Abbas Fehmi, MD, MSc, FASGE, ⁶
Donglas S, Fishman, MD, FASP, FASGE, ⁷ Suryakanth R, Gurudn, MD, FASGE, ² Laith H, Jamil, MD, FASGE, ⁸
Terry L. Jue, MD, FASGE, ⁸
Bijun Sai Kannadath, MBBS, MS, ³ Joanna K, Law, MD, ¹⁰ Jeffrey K, Lee, MD, MAS, ¹¹
Mariam Naveed, MD, ¹² Bashar J, Qumseya, MD, MPH, ¹³ Mandeep S, Sawhney, MD, MS, FASGE, ¹⁸
Julie Yang, MD, FASGE, ⁵ Sachin Wani, MD, ASGE Standards of Practice Committee Chair¹⁶

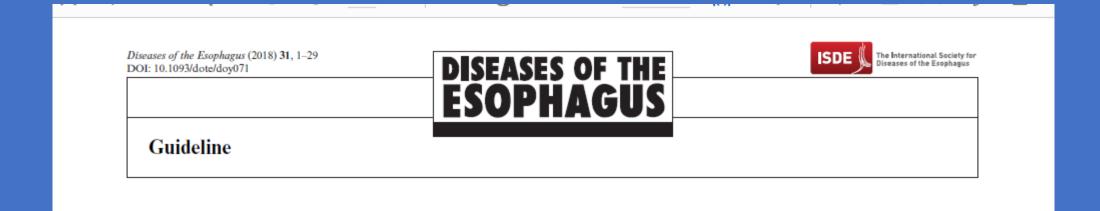
This document was reviewed and approved by the Governing Board of the American Society for Gastrointestinal Endoscopy (ASGE)

Endorsed by the American Neurogastmenterology and Mortliny Society and the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)

Endoscopic management of gastrointestinal motility disorders – part 1: European Society of Gastrointestinal Endoscopy (ESGE) Guideline



Recommendations	Strength	Certainty of evidence
We recommend that, in the treatment of achalasia, symptom relief should be regarded as the primary treatment aim	Expert opinion	
We recommend that improvement of objectively measured esophageal emptying should be regarded as an important additional treatment aim	Expert opinion	
Botulinum toxin therapy can be considered an effective and safe therapy for short-term symptom relief in esophageal achalasia $\frac{1}{2}$	Conditional recommendation	Moderate
$Graded\ pneumatic\ dilatation\ is\ an\ effective\ and\ relatively\ safe\ treatment\ for\ esophageal\ achalasia$	Strong recommendation	Strong
$Per oral\ endoscopic\ myotomy\ is\ an\ effective\ and\ relatively\ safe\ treatment\ for\ esophage al\ achalasia$	Conditional recommendation	Moderate
Laparoscopic Heller myotomy (LHM) combined with an antireflux procedure is an effective and relatively safe therapy for achalasia	Conditional recommendation	Moderate
We suggest age and manometric subtype be taken into account when selecting a therapeutic strategy	Conditional recommendation	Moderate
Treatment decisions in achalasia should be made based on patient-specific characteristics, the patient's preference, possible side effects and/or complications, and a center's expertise. Overall, graded repetitive pneumatic dilation, LHM, and POEM have comparable efficacy	Strong recommendation	Moderate
Botulinum toxin therapy should be reserved for patients who are too unfit for more invasive treatments, or in whom a more definite treatment needs to be deferred	Conditional recommendation	Moderate
We suggest treating recurrent or persistent dysphagia after LHM with pneumatic dilation, POEM, or redo surgery	Conditional recommendation	Very low
We suggest treating recurrent or persistent dysphagia after POEM with either re-POEM, LHM, or pneumatic dilation	Conditional recommendation	Very low
We recommend follow-up endoscopy to screen for GERD in patients treated with myotomy without an antireflux procedure If reflux symptoms occur in the absence of reflux esophagitis, TBE, empiric PPI therapy, and/or 24-hour esophageal pH-(impedance) monitoring can be considered PPIs are the first-line treatment of GERD after achalasia treatment. We recommend lifelong PPI therapy in patients with esophagitis>grade A	Expertopinion	



- Myotomy superior to other treatment options in young age
- POEM is recommended for type II achalasia and other motility disorders need longer myotomy

Balloon dilation

Graduated Balloon dilation

3 sessions

30, 35, 40

How to choose

TYPE I

- BD (Only one time)
- POEM
- LAPAROSCOPIC MYOTOMY

How to choose

TYPE II

- BD
- POEM
- LAPAROSCOPIC MYOTOMY

After proper assessment





How to choose

TYPE III
Other motility
disorders

POEM (TAYLERD MYOTOMY)

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Comment:

ID No.: ■ Sex: Age: D.O.Birth:

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SCV----2



Comment:





Japanese Journal of Gastroenterology 2832-4870)

Peroral Endoscopic Myotomy in Patients with Type III Achalasia and Non Achalasia Esophageal **Motility Disorders.**

Ahmad Madkour¹, Ahmad F. Aboelezz², Ehab ABSTRACT Nashaat', Hossam Abdelaziz³, Sohayb Ibrahim⁴, Mohamad Nabil³

Background: Achalasia is a disease characterized by

Limitations?

Previous interventions

Sever fibrosis

Intra –post procedure complications

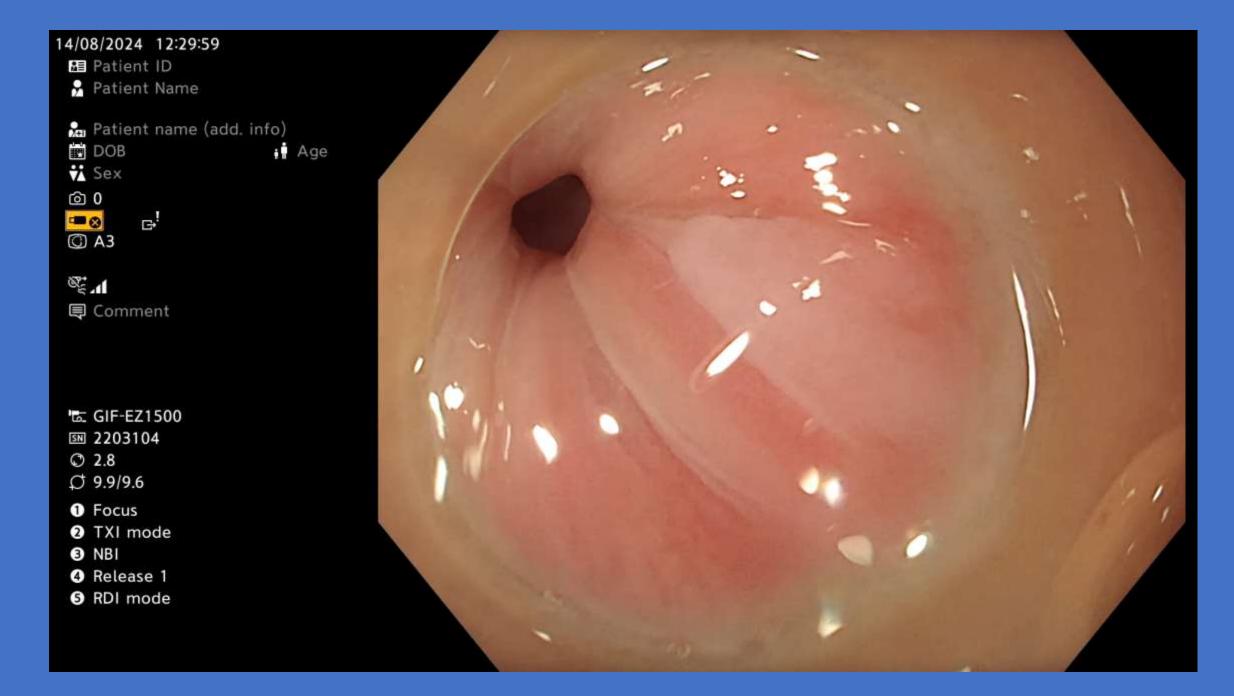
Post POEM GERD

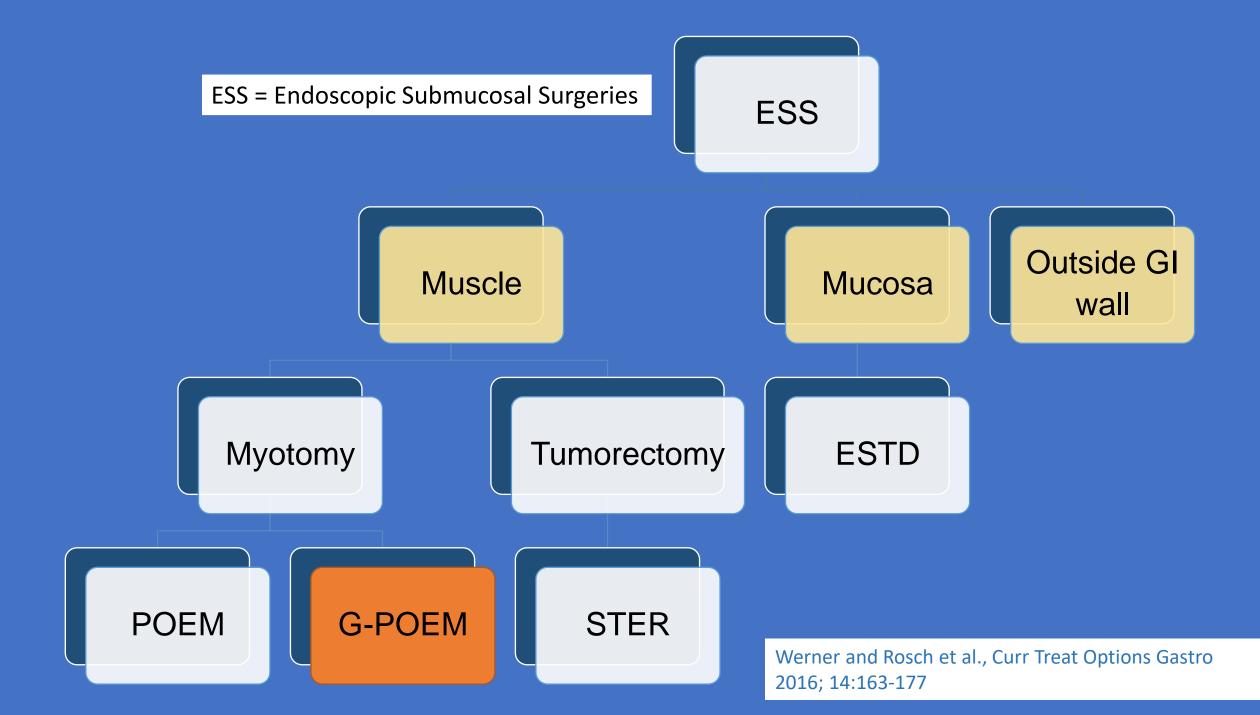
POEM-F











Myotomy

G-POEM

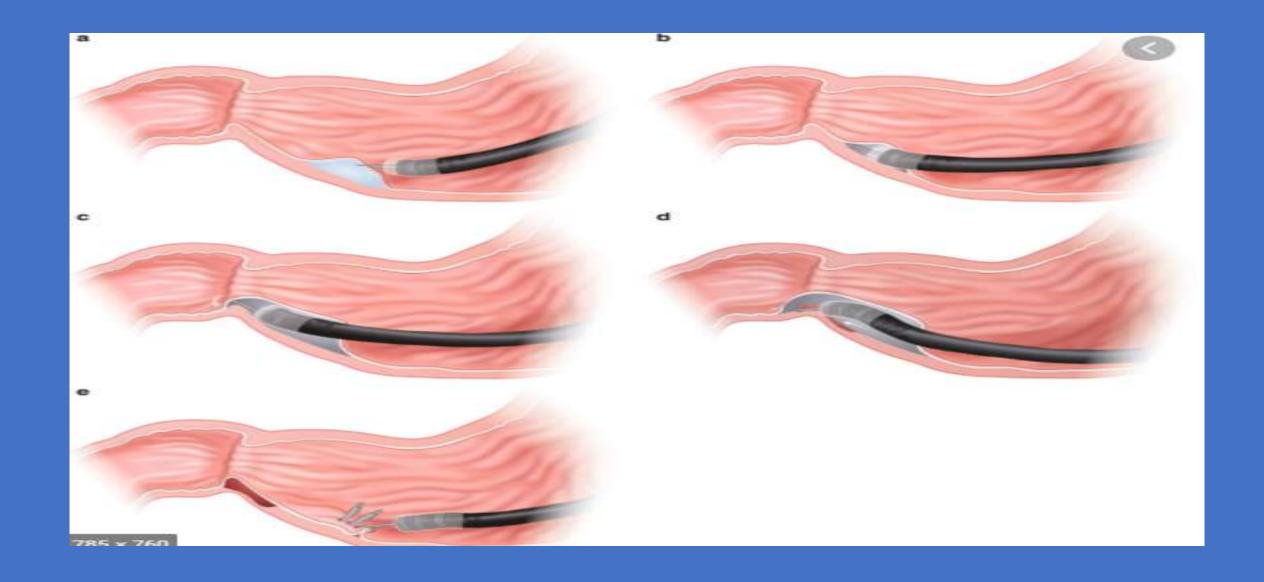


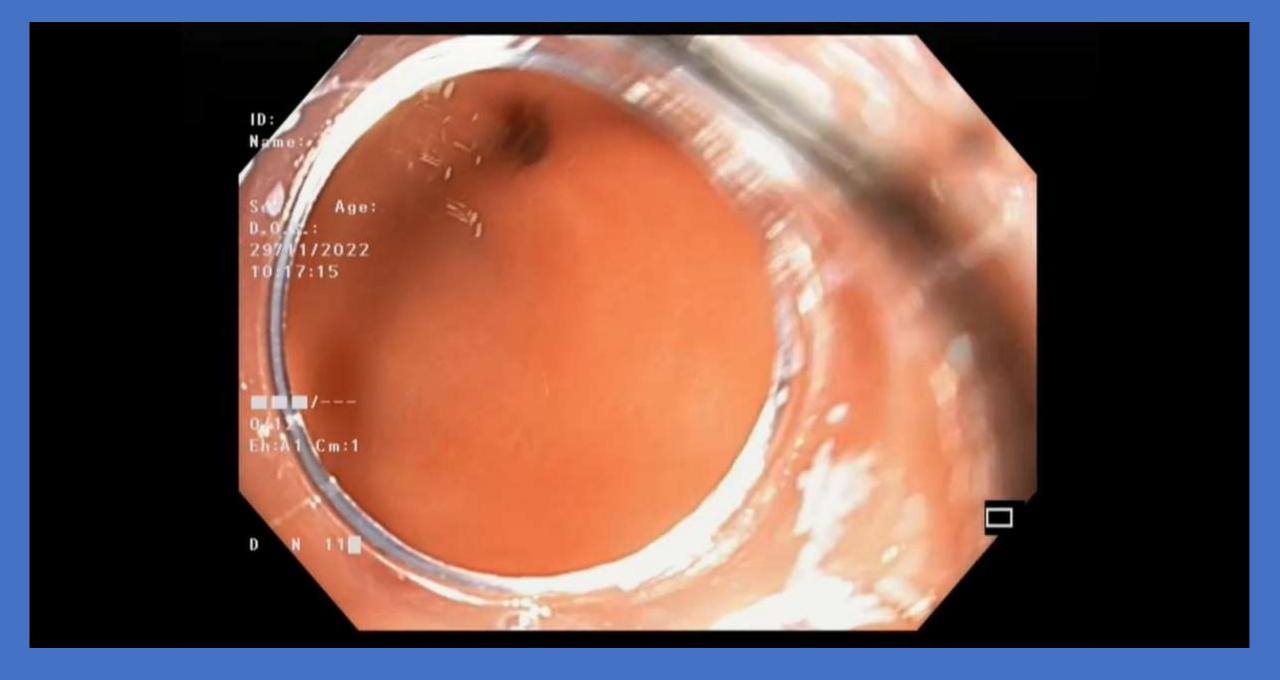
THINKING OUTSIDE THE BOX

Gastric peroral endoscopic myotomy for refractory gastroparesis: first human endoscopic pyloromyotomy (with video)

Khashab (2013)

G-POEM





ORIGINAL ARTICLE: Clinical Endoscopy

Gastric peroral endoscopic myotomy in refractory gastroparesis: long-term outcomes and predictive score to improve patient selection



Amélie Labonde, MD, ¹ Guillaume Lades, MD, ² Antoine Debourdeau, MD, ³ Olivier Ragi, MD, ⁴ Lauriane Lehmann, MD, ⁵ Véronique Vitton, MD, PhD, ⁶ Marc Barthet, MD, PhD, ⁶ Romain Legros, MD, ¹ Jérémie Albouys, MD, MSc, ¹ Sophie Geyl, MD, MSc, ¹ Véronique Loustaud-Ratti, MD, MSc, ¹ Jacques Monteil, MD, PhD, ¹ Sandra Gonzalez, MD, ⁷ Jean-Michel Gonzalez, MD, PhD, ⁶ Iérémie Jacques, MD, PhD, ¹

Limoges, Montpellier, Lyon, Marseille, France

Conclusions: The clinical success of G-POEM for refractory gastroparesis was 65.2% at 36 months. Our predictive score offers an easy tool that needs to be confirmed in other studies. (Gastrointest Endosc 2022;96:500-8.)

Observational Study > Gut. 2022 Jan;71(1):25-33. doi: 10.1136/gutjnl-2020-322756. Epub 2021 Mar 19.

Gastric per-oral endoscopic myotomy (G-POEM) for refractory gastroparesis: results from an international prospective trial

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Kia Vosoughi <sup># 1</sup>, Yervant Ichkhanian <sup># 1 2</sup>, Petros Benias <sup>3</sup>, Larry Miller <sup>3</sup>, A Aziz Aadam <sup>4</sup>, Joseph R Triggs <sup>4</sup>, Ryan Law <sup>5</sup>, William Hasler <sup>5</sup>, Nicole Bowers <sup>5</sup>, Dalton Chaves <sup>6</sup>, Alberto M Ponte-Neto <sup>6</sup>, Peter Draganov <sup>7</sup>, Dennis Yang <sup>7</sup>, Maan El Halabi <sup>8</sup>, Omid Sanaei <sup>1 9</sup>, Olaya Isabella Brewer Gutierrez <sup>1</sup>, Robert Stephen Bulat <sup>1</sup>, John Pandolfino <sup>4</sup>, Mouen Khashab <sup>10</sup>
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Conclusion: G-POEM is a safe procedure, but showed only modest overall effectiveness in the treatment of refractory gastroparesis. Further studies are required to identify the best candidates for G-POEM; unselective use of this procedure should be discouraged.

Case 1

37 Male with recurrent vomiting diagnosed as HH

Underwent Nissan fundoplication

With worsen symptoms

Dysphagia, Weight loose 35 Kg





HRM

Type III Achalasia

Upper endoscopy stomach full with food

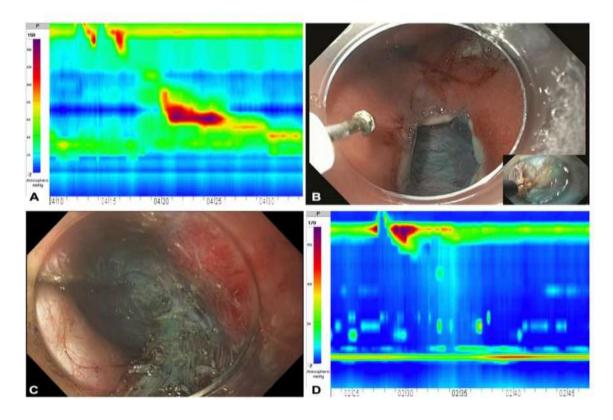
Sentegraphy

(Marked delay gastric empty)

AT THE FOCAL POINT

Amy Tyberg, MD, FASGE, FACG, Associate Editor for Focal Points

Concomitant peroral endoscopic myotomy and gastric peroral endoscopic myotomy for persistent dysphagia and iatrogenic gastroparesis after laparoscopic fundoplication



A 46-year-old man presented with persistent dysphagia, vomiting, chest pain, and significant weight loss after laparoscopic fundoplication with evident postoperative esophageal motility disorder (hypercontractile jackhammer esophagus with an element of esophagogastric junction outflow obstruction resembling type III achalasia, with a mean integrated relaxation pressure of 19.8 mm Hg (A). He was scheduled for peroral endoscopic myotomy (POEM) as a



D-POEM

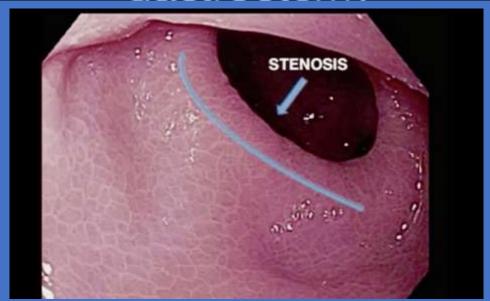


Innovative indications



Video Case Report

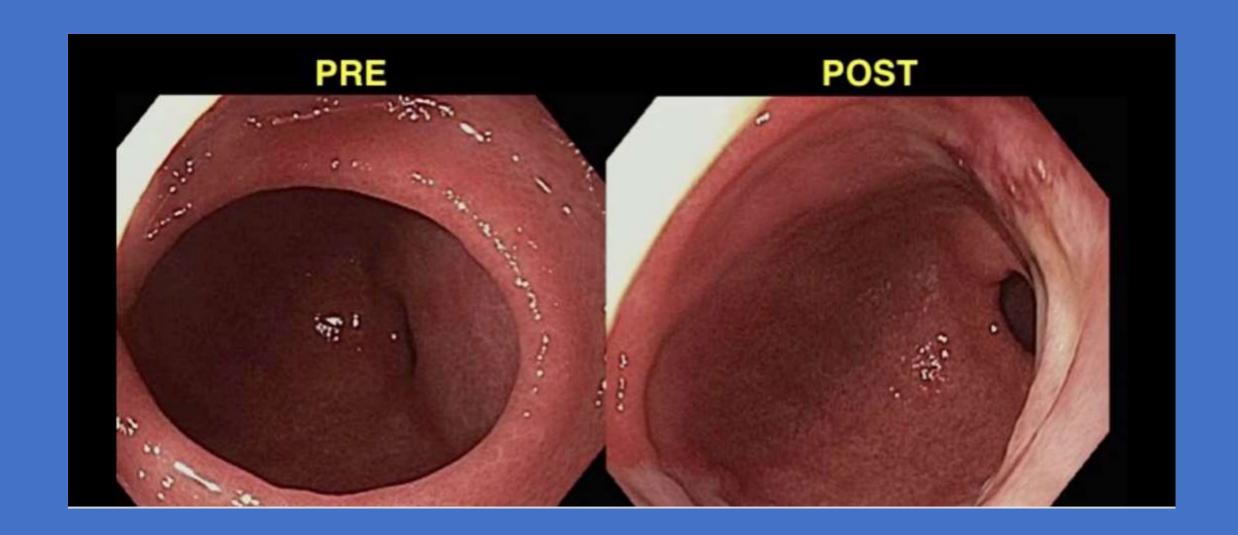
Endoscopic tunneled stricturotomy in the treatment of stenosis after sleeve aastrectomy











STER

Tumorectomy

STER



CASE STUDIES

Submucosal tunneling endoscopic resection: a new technique for treating upper GI submucosal tumors originating from the muscularis propria layer (with videos)

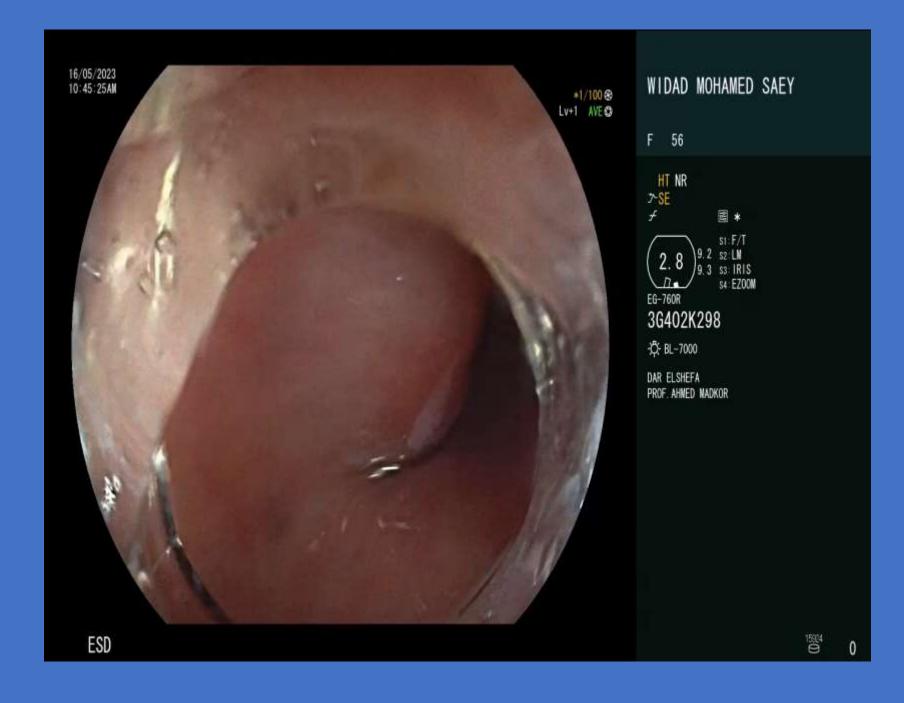
Mei-Dong Xu, MD, PhD,¹ Ming-Yan Cai, MD,¹ Ping-Hong Zhou, MD, PhD,¹ Xin-Yu Qin, MD, PhD,² Yun-Shi Zhong, MD, PhD,¹ Wei-Feng Chen, MD,¹ Jian-Wei Hu, MD,¹ Yi-Qun Zhang, MD, PhD,¹ Li-Li Ma, MD,¹ Wen-Zheng Qin, MD,¹ Li-Qing Yao, MD¹

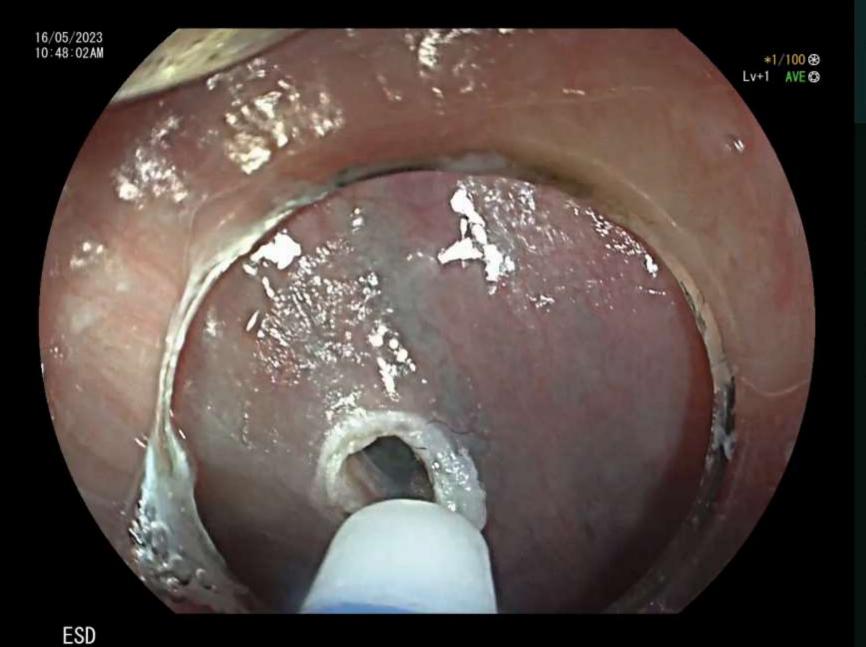
Shanghai, China

Xu (2012)

55 years old female with dysphagia and foreign body sensation

Upper esophageal SMT in anterior wall in front of aortic arch





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DAR ELSHEFA PROF. AHMED MADKOR

Case 1

DOR. AHMED MADKOUR

27 years old female With history of partial gastrectomy (GIST)

Now presented with this SMT below cardia













@Dalia A. Kareem



Gastrointestinal Endoscopy

Available online 29 October 2024

In Press, Journal Pre-proof

What's this?



FEASIBILITY OF SUBMUCOSAL TUNNELING ENDOSCOPIC RESECTION FOR A BLEEDING GASTROINTESTINAL STROMAL TUMOR

Ahmad Madkour MD ¹, Ashraf Albreedy MD ², Ahmed Elgammal MSc ³, Amr Elfouly MD ¹, Dalia Abd El-Kareem MD ⁴, Hassan Atalla MD ⁵ $\stackrel{\triangle}{\sim}$



Case 2

Endoscopy news



Endoscopic transmural route for dissection of gastric submucosal tumors with extraluminal growth: experience in two cases

Xinyang Liu, Tianyin Chen, Jing Cheng, Pingting Gao, Quanlin Li, Weifeng Chen, Yiqun Zhang, Pinghong Zhou , Jianwei Hu

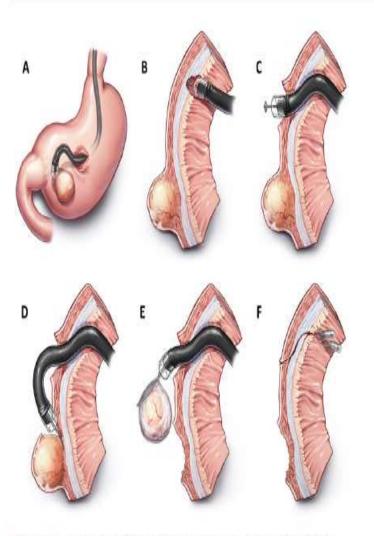
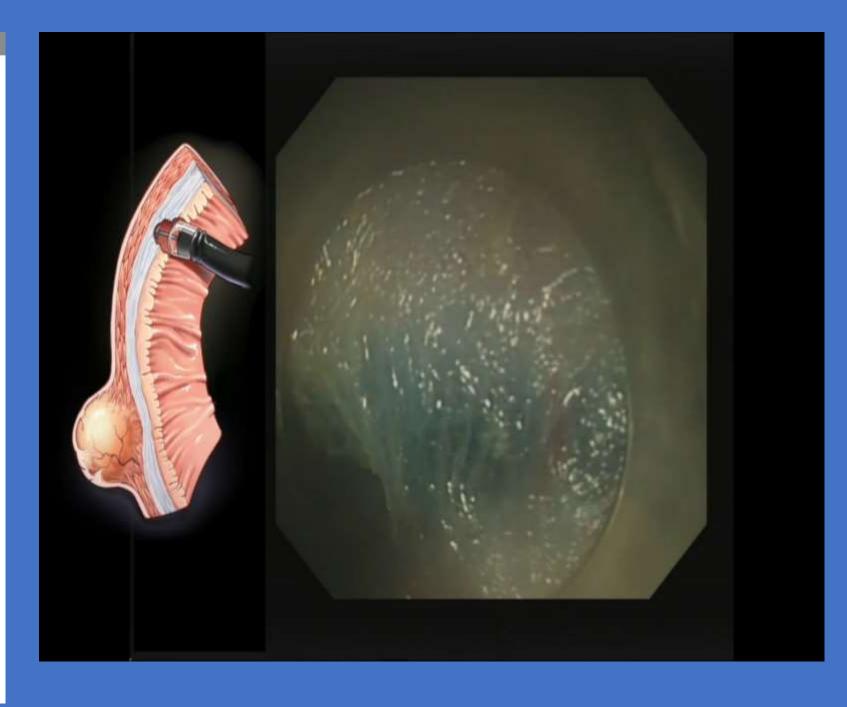


Figure 1 Endoscopic intraperitoneal subserosal dissection (EISD) illustrations. (A) EISD. (B) Mucosal incision. (C) Submucosal tunnelling. (D) Intraperitoneal subserosal dissection. (E) Lesion removal. (F) Mucosal closure.



ESD

Detect Lesion





Should we resect or refer to surgery

How to Resect?



All Adenomas

Should we resect



Intramucosal carcinomas



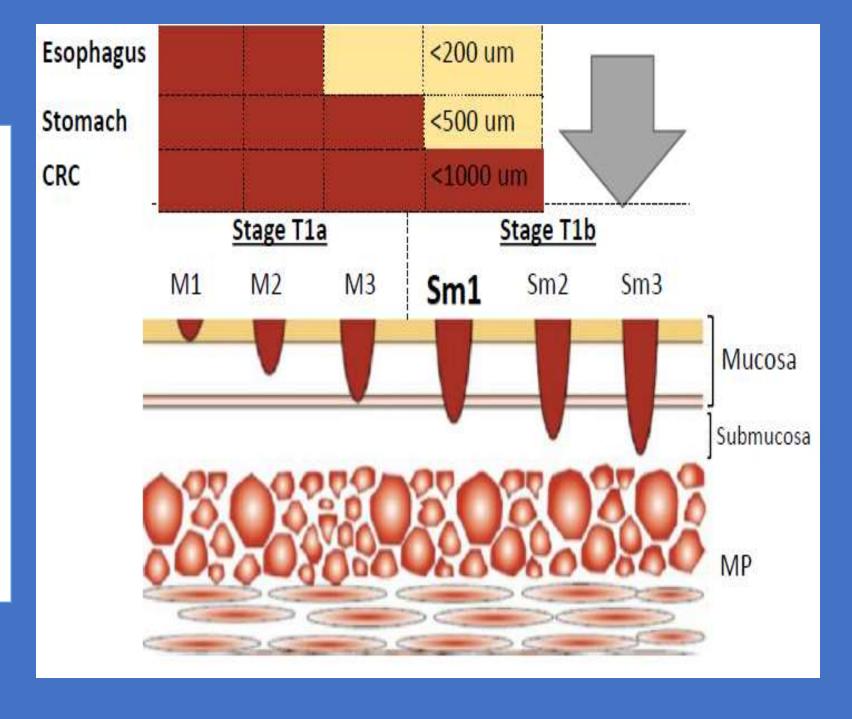
Adenocarcinoma?

Incidence of LN metastasis according to depth of invasion

Should we resect

Depth	Esophageal Lns	Gastric Lns	CRC Lns
m1	0%	0%	0%
m2	0%	0%	0%
m3	0-8%	0%	0%
Sm1	0-17%	0%	0%
	< 200 um	<500 um	Upper 1/3 1000um
Sm2	28%	14-20%	10%
Sm3	49%	19-24%	10%

We can resect
T1a and early T1b
cancer
by endoscope



How to resect

- Cold Biopsy
- Cold Snare
- Hot Snare
- EMR
- ESD
- EFTR

How to choose between resection modalities

Curative resection with low recurrence rate

Less invasive

Low complication

ESD

- Difficult to resect by other modality
- Risk of incomplete resection-recurrence by other modality

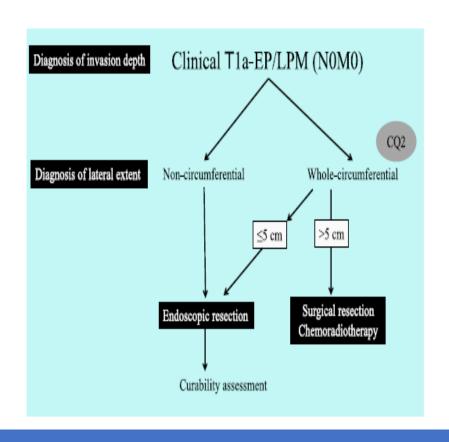
Esophagus

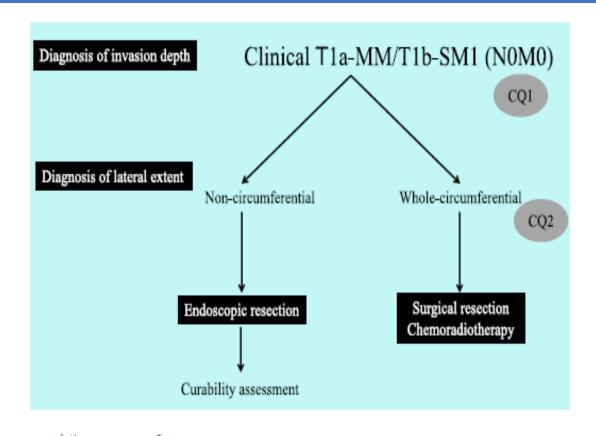
Guidelines

Endoscopic submucosal dissection/endoscopic mucosal resection guidelines for esophageal cancer

Ryu Ishihara, Miwako Arima, Toshiro Iizuka, Tsuneo Oyama, Chikatoshi Katada, Motohiko Kato, Kenichi Goda, Osamu Goto, Kyosuke Tanaka, Tomonori Yano, Shigetaka Yoshinaga, Manabu Muto, Hirofumi Kawakubo, Mitsuhiro Fujishiro, Masahiro Yoshida, Kazuma Fujimoto, Hisao Tajiri, Haruhiro Inoue and The Japan Gastroenterological Endoscopy Society Guidelines Committee of ESD/EMR for Esophageal Cancer

Japan Gastroenterological Endoscopy Society, Tokyo, Japan





Gastric



Guidelines for endoscopic submucosal dissection and endoscopic mucosal resection for early gastric cancer (second edition)

Depth of invasion	Ulceration	Differentiated type	Undifferentiated type
	ULO	≤ 2 cm > 2 cm	≤ 2 cm > 2 cm
cT1a (M)	UL1	★ ≤ 3 cm > 3 cm	
cT1b (SM)	OLI		

- Absolute indications for EMR/ESD
 - Relative indications

Absolute indications for ESD

- Suspected SMI
- Undifferentiated type
- More than 3 Cm
- Ulcerated

ESTD

Mucosa



ESTD

Case report/series

Endoscopic submucosal tunnel dissection for large esophageal neoplastic lesions

Authors

E. Linghu, X. Feng, X. Wang, J. Meng, H. Du, H. Wang

Institution

Department of Gastmonterology, PLA General Hospital, Beijing, China.

Linghu (2013)

ESTD

Zhai YQ et al. ESTD for large superficial esophageal neoplasms

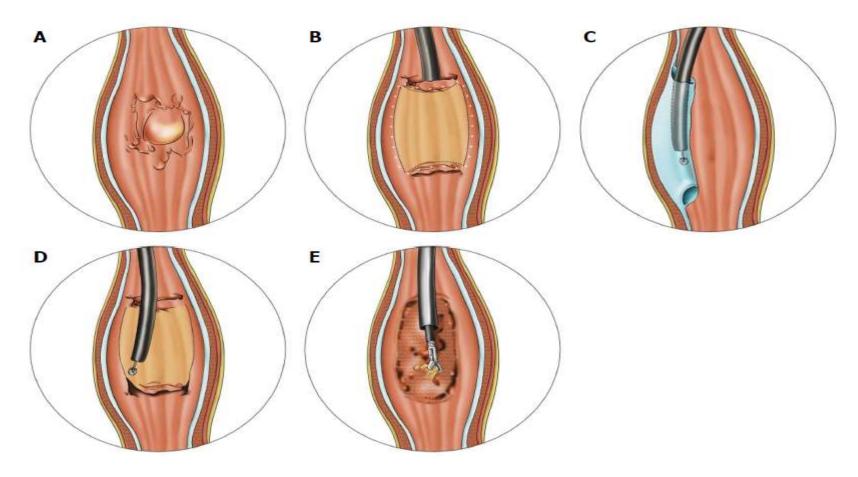
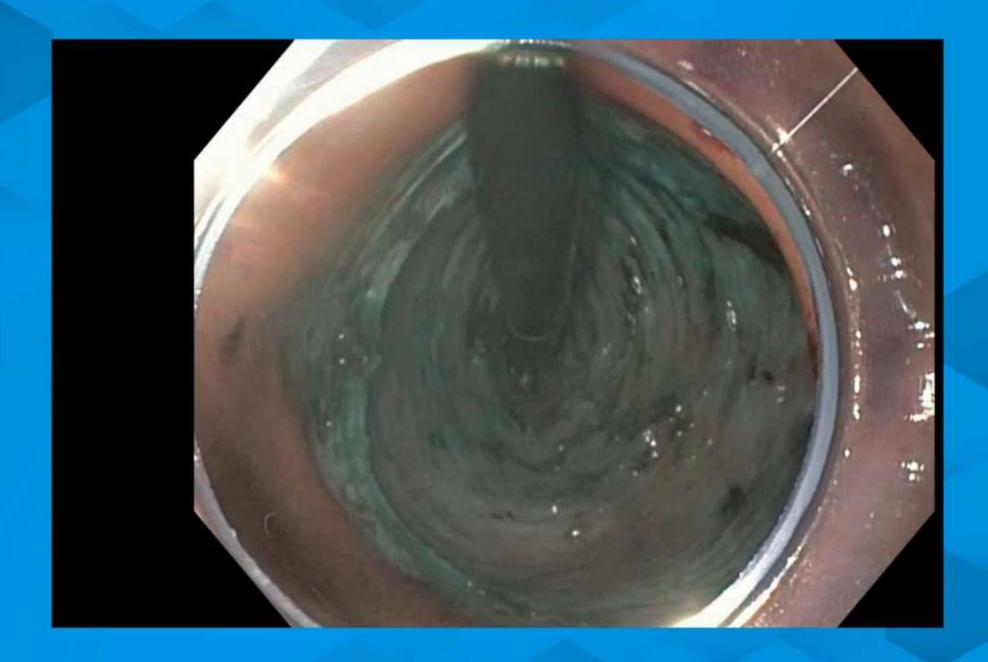
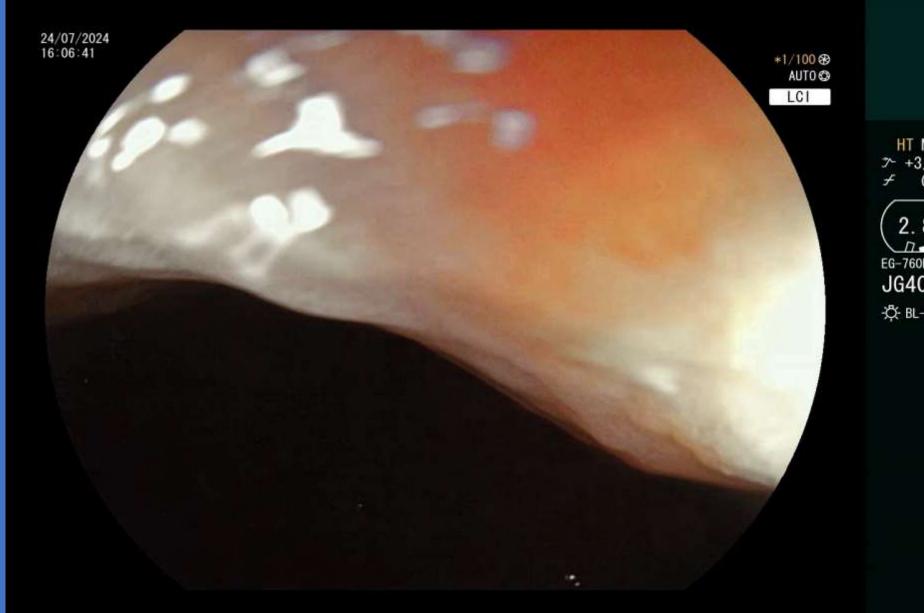


Figure 2 Schema of endoscopic submucosal tunnel dissection. A: Evaluating and delineating the neoplasm; B: After marking the lesion margin, mucosal incision was performed in the anal-oral sequence; C: A submucosal tunnel was created from the oral to anal side; D: Lateral resection with an insulated-tip knife for complete removal of the lesion; E: Preventive coagulation on artificial ulcer.









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Colon

EMR Or ESD?

Endoscopic En Bloc Versus Piecemeal Resection of Large Nonpedunculated Colonic Adenomas

A Randomized Comparative Trial

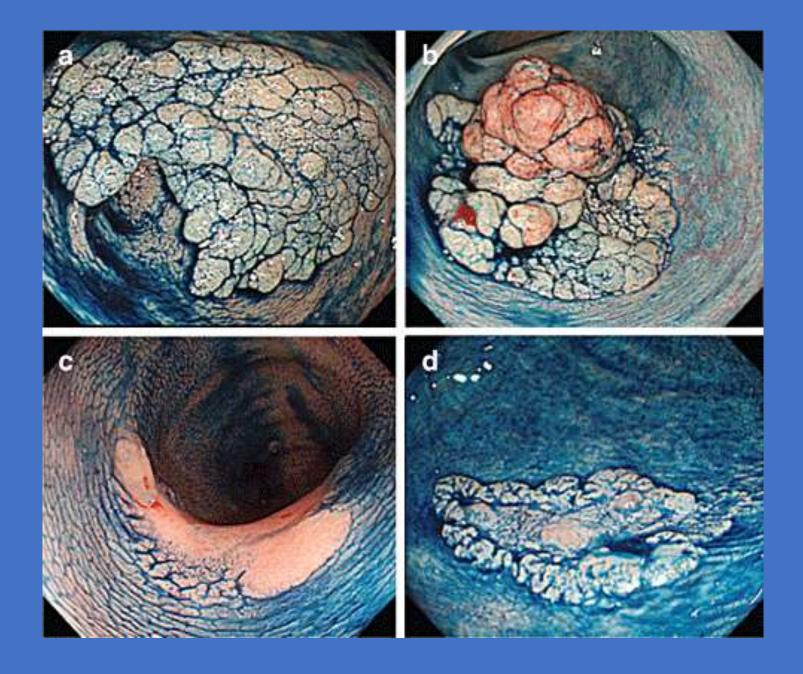
Jérémie Jacques, MD, PhD ➡, Marion Schaefer, MD ௵, Timothée Wallenhorst, MD, ... See More +
Author, Article, and Disclosure Information
https://doi.org/10.7326/M23-1812
Eligible for CME Point-of-Care

- Prospective randomized trial
- 360 patients with colorectal lesions more than 2.5 cm randomized into two groups
- Recurrence during 6 months in EMR group was (5.1 %) and in ESD group (0.6%)

When to Choose EMR

When there is minimal risk of Submucosal invasion

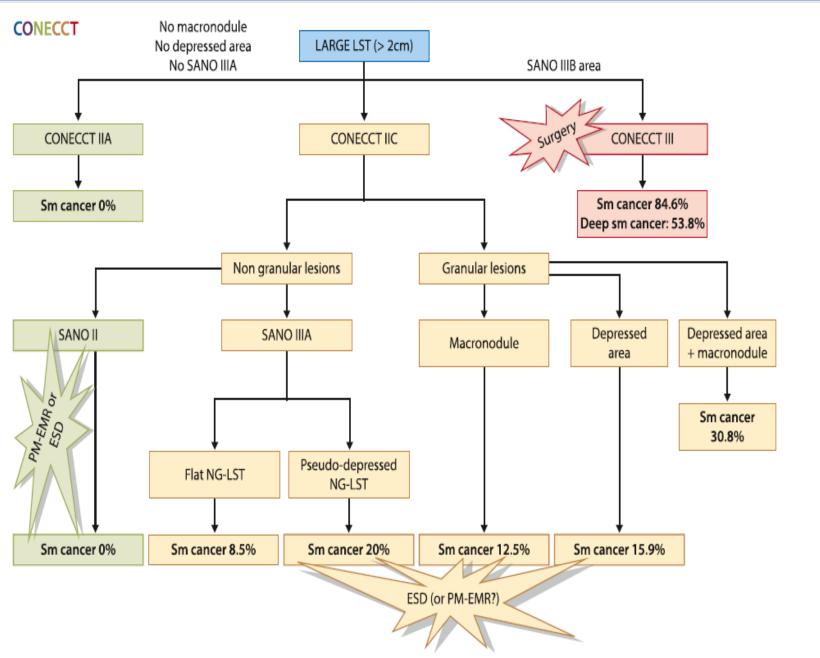
How to suspect submucosal invasion in LST



- A- 1%
- B-11 %
- C- 6%
- D-35 %

The C Choos latera prospe

Clementi Sophie G Hugo Ler Jeremie .

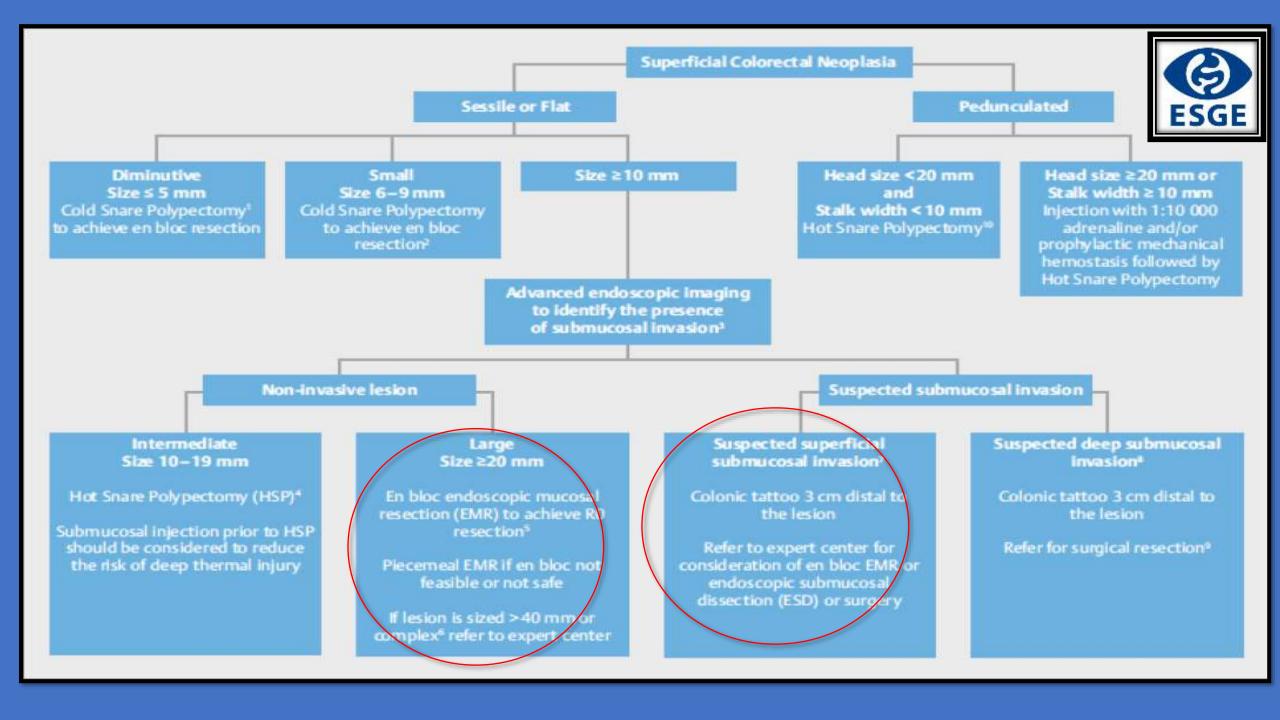


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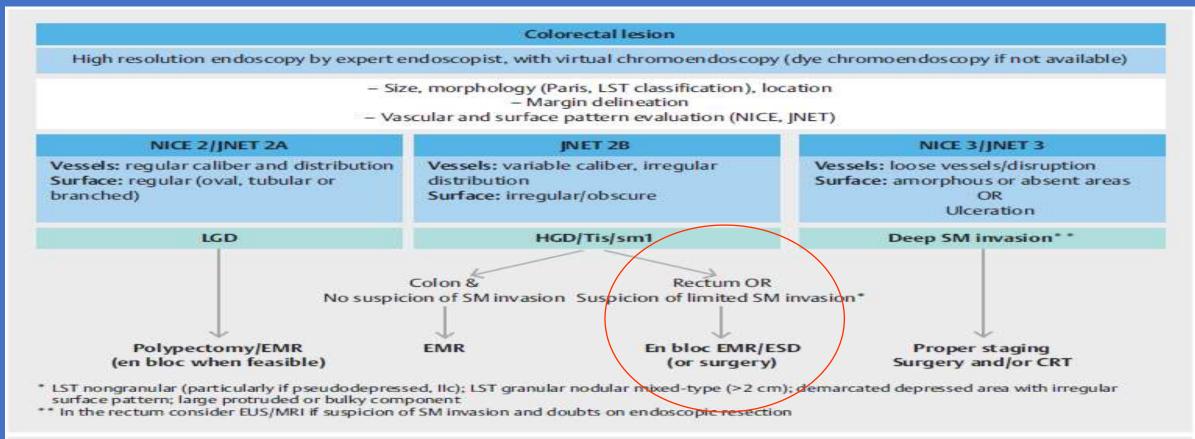
Decision depends not only on scientific background

But also on facility and Availability of different services



Endoscopic submucosal dissection for superficial gastrointestinal lesions: European Society of Gastrointestinal Endoscopy (ESGE) Guideline – Update 2022





▶ Fig. 4 Endoscopic submucosal dissection (ESD) for superficial colorectal lesions: a decision algorithm. CRT, chemoradiotherapy; EMR, endoscopic mucosal resection; EUS, endoscopic ultrasonography; HGD, high grade dysplasia; JNET, Japan NBI Expert Team; LGD, low grade dysplasia; LST, laterally spreading tumor; MRI, magnetic resonance imaging; NICE, NBI International Colorectal Endoscopic.

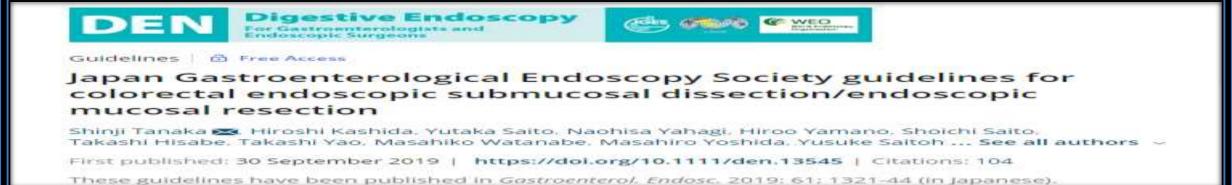


Table 2. Indications for endoscopic submucosal dissection of colorectal tumors

Lesions for which endoscopic en bloc resection is requ
--

1) Lesions for which en bloc resection with snare EMR is difficult to apply

LST-NG, particularly LST-NG (PD)

Lesions showing a VI-type pit pattern

Carcinoma with shallow T1 (SM) invasion

Large depressed-type tumors

Large protruded-type lesions suspected to be carcinoma

- 2) Mucosal tumors with submucosal fibrosis ‡
- 3) Sporadic tumors in conditions of chronic inflammation such as ulcerative colitis
- 4) Local residual or recurrent early carcinomas after endoscopic resection

LGD **EMR** HGD Colon ESD Risky for SMI FTRD **Egypt En-block EMR** LGD Rectum HGD, Risk of SMI ESD

Exceptions and other indications

- Recurrent lesions after EMR
- IBD
- NET

- ESD
- Precut EMR
- EFTRD

36 years old man with change in bowel habits
Colonoscopy showed LST –G homogenous type in caecum
No signs of HGD or SMI



LGD HGD

EMR

Colon

Risky for SMI

ESD FTRD

Rectum

LGD

En-block EMR

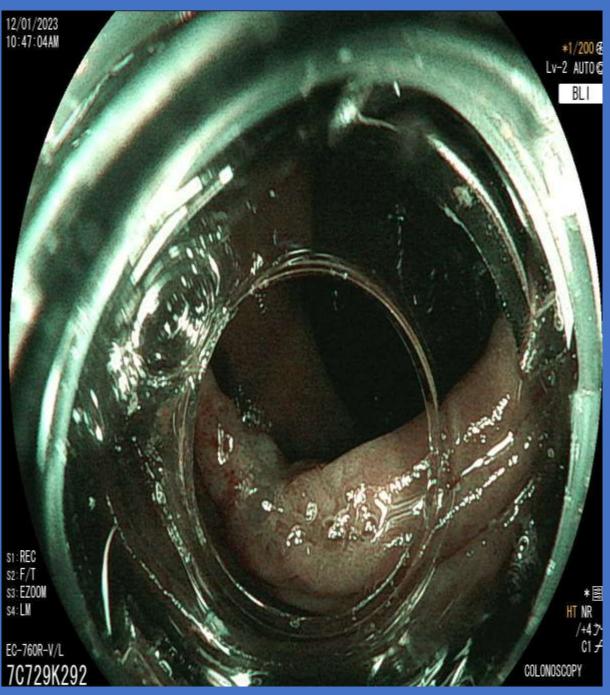
HGD, Risk of SMI

ESD

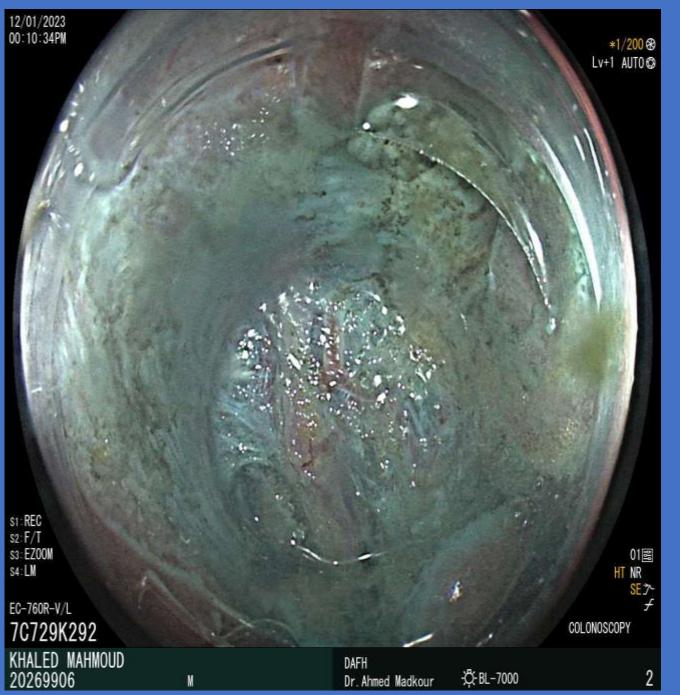
36 years old man with change in bowel habits
Colonoscopy showed LST –G homogenous type in caecum
No signs of HGD or SMI

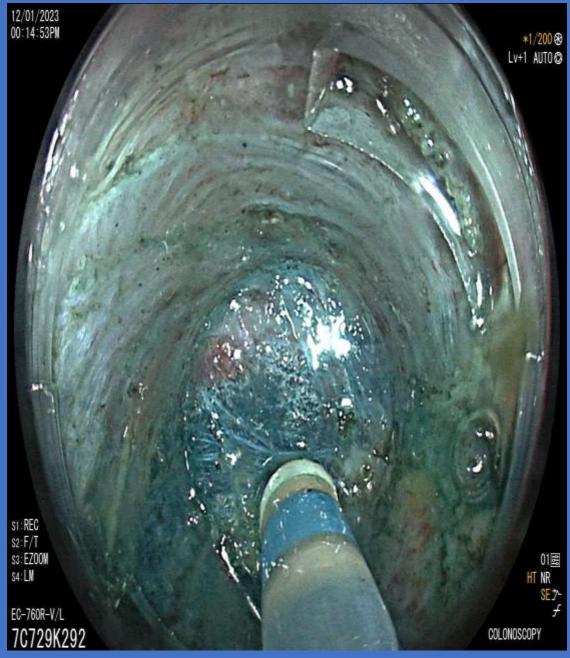


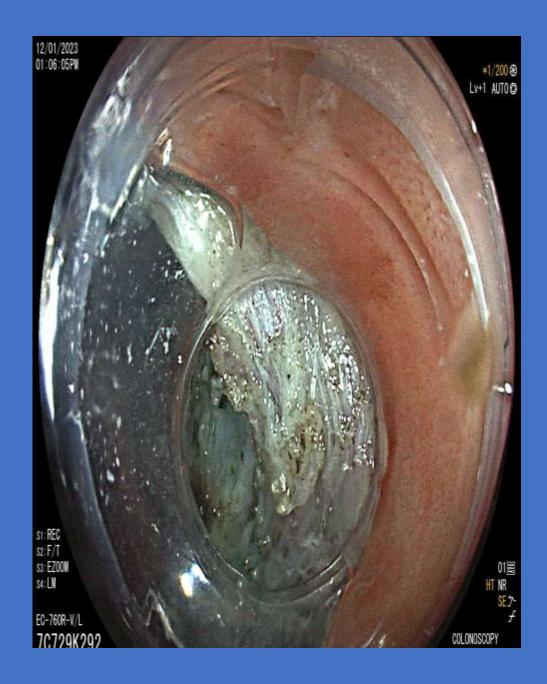


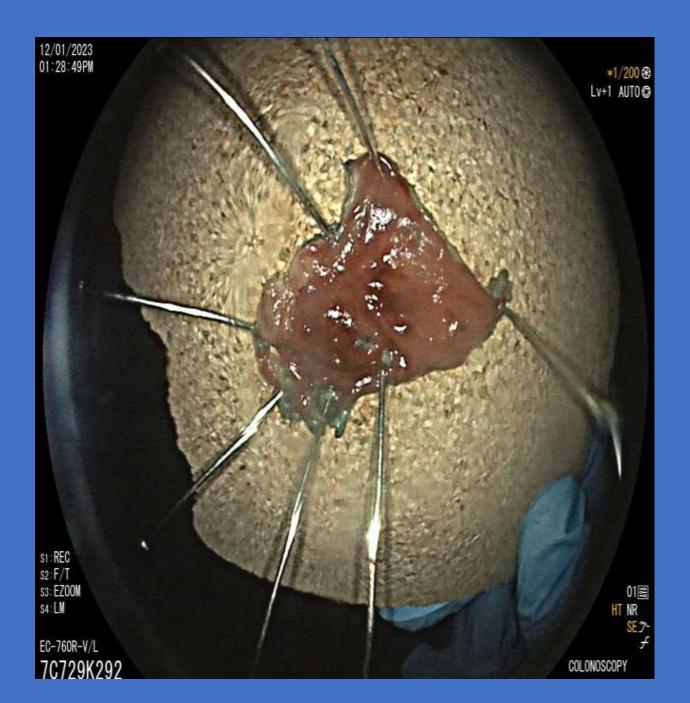


LGD **EMR** HGD colon **ESD** Risky for SMI FTRD En-block EMR LGD Rectum HGD, Risk of SMI ESD









STOCKO TOVISION

A & B: INVASIVE MODERATELY DIFFERENTIATED ADENOCARCINOMA, GRADE 2, ON TOP OF TUBULAR ADENOMA (MAXIMAL DEPTH OF SUBMUCOSAL INVASION OF 150μ MICRONS) - pT1-sm1

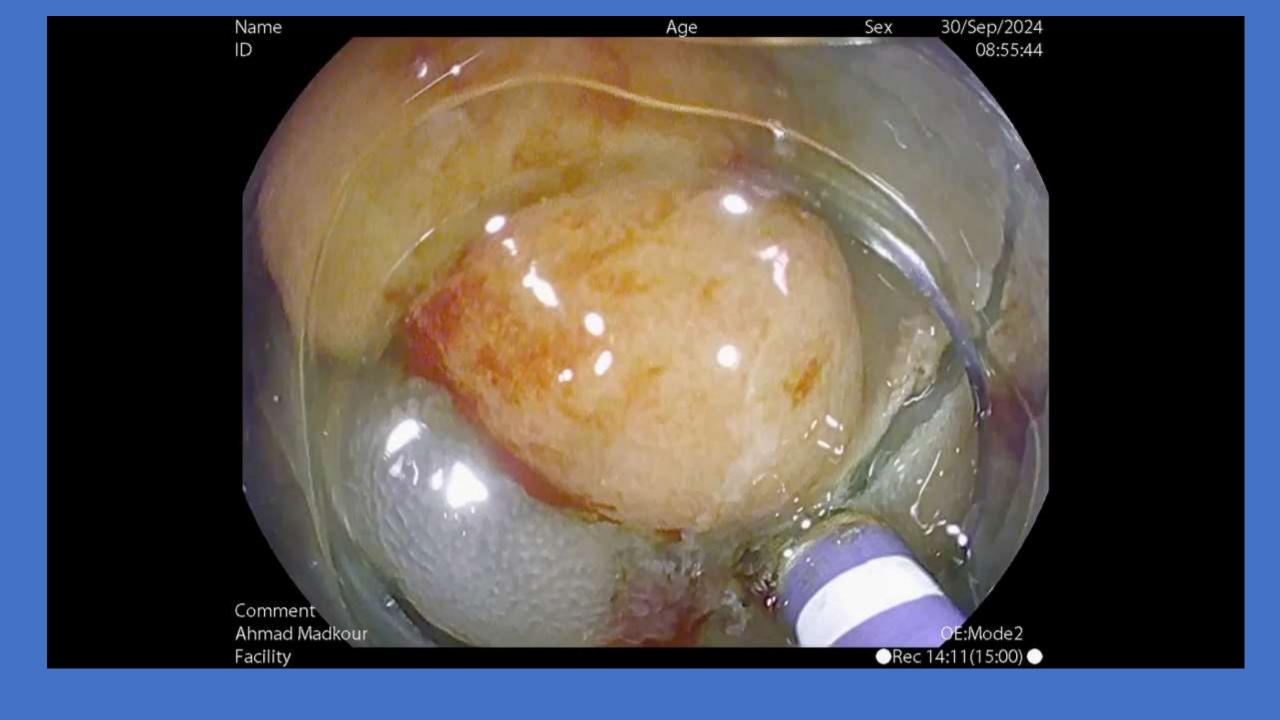
NEGATIVE LYMPHOVASCULAR SPACE INVASION. NEGATIVE FOR PERINEURAL INVASION. NEGATIVE FOR TUMOR BUDDING FREE LATERAL MARGINS. FREE INKED DEEP MARGIN (COMPLETELY EXCISED)

C: NORMAL COLONIC MUCOSA / LATERAL MARGINS FREE OF NEOPLASIA

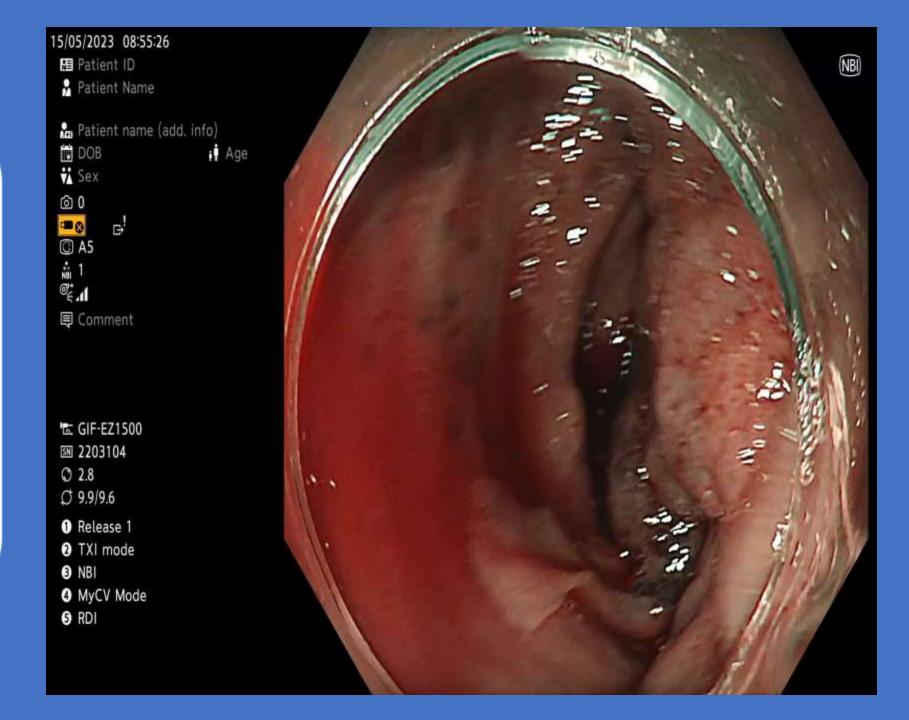
Dalia Abd El-Kareem, M.D



LGD EMR HGD Colon **ESD** Risky for SMI **Fibrosis FTRD** En-block LGD **EMR** Rectum HGD, Risk of SMI **ESD**



42 years old female with change bowel habits
Colonoscopy showed sigmoid colon LST with dominant nodule



LGD HGD

EMR

Colon

Risky for SMI

ESD

FTRD

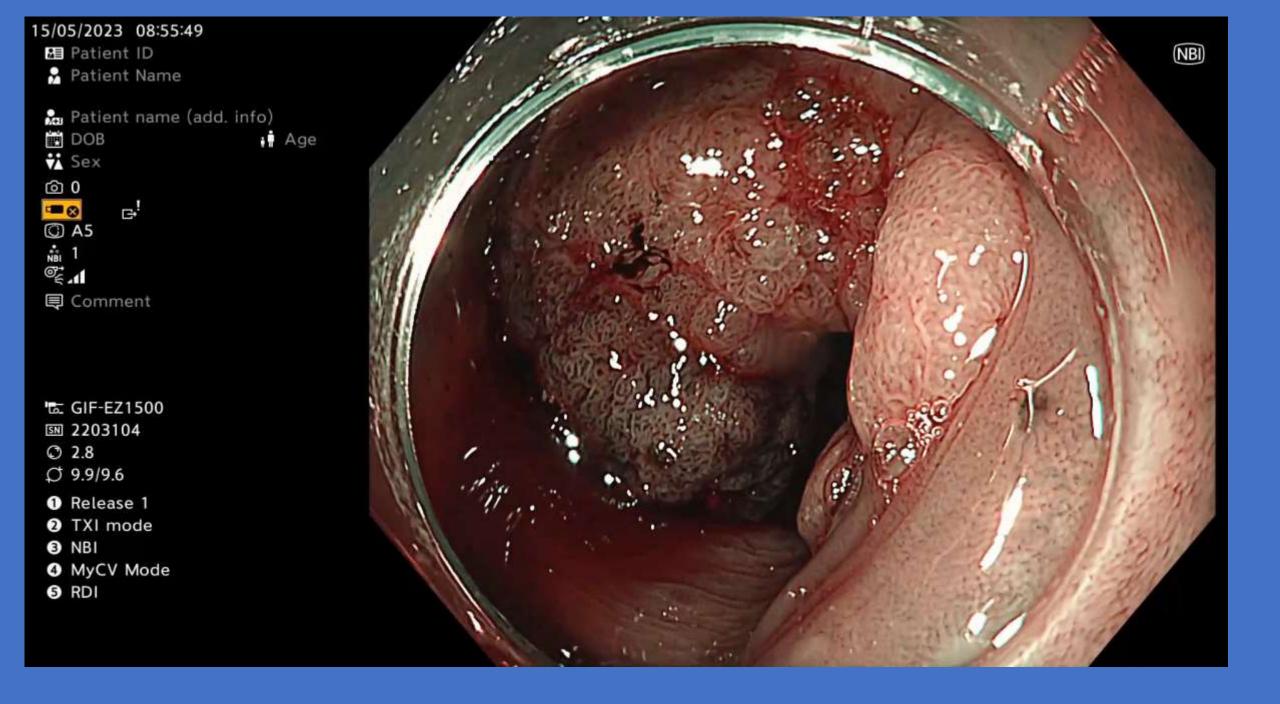
Rectum

LGD

En-block EMR

HGD, Risk of SMI

ESD



Perineural invasion is absent. No necrosis.

Diagnosis:

Rectal LST, Referred blocks (Biopsy), INFILTRATING ADENOCARCINOMA, GRADE II
ON TOP OF TUBULOVILLOUS ADENOMA WITH HIGH GRADE DYSPLASIA, FREE
SURGICAL MARGIN AT SIDE AND DEPTH OF RESECTION.

- TUMOR STAGE: pT1.

Prof. Dr. Shady Elia Anis

Prof. Dr. Elia Anis Ishak

Shadyour

Elia ani

LGD HGD

EMR

Colon

Risky for SMI

ESD FTRD

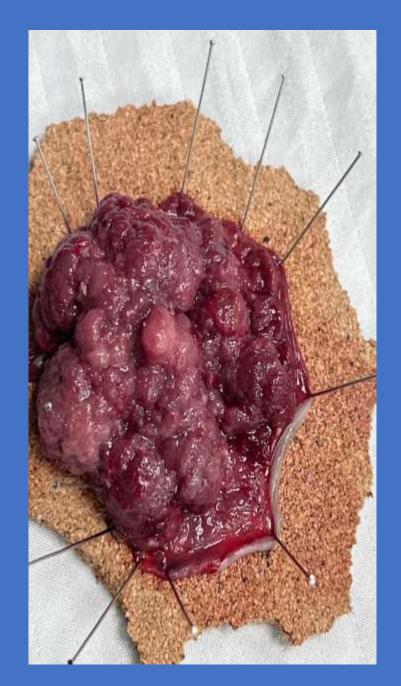
Rectum

LGD

En-block EMR

HGD, Risk of SMI

ESD









NASAYEM HOSP



MAHMOUD ELSYAD

M 14

HT NR → SE ≠

S1: F/T 10. 5 s2: LM 10. 8 s3: IRIS s4: EZ00M

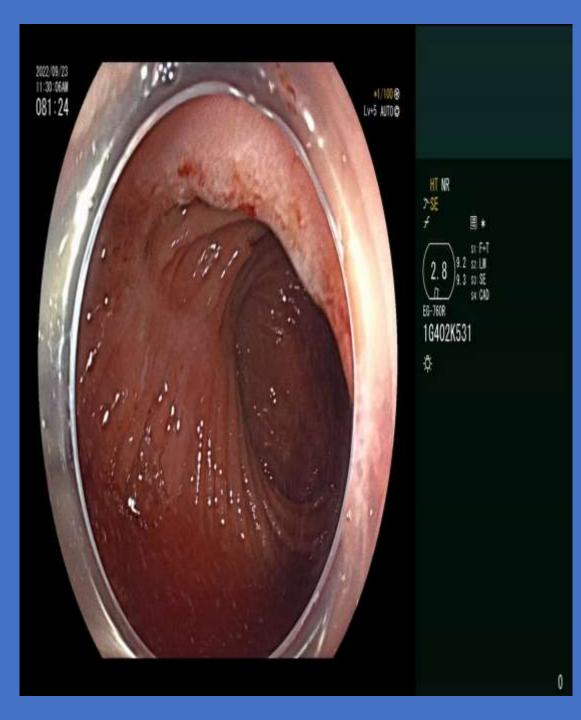
墨 *

EG-760CT

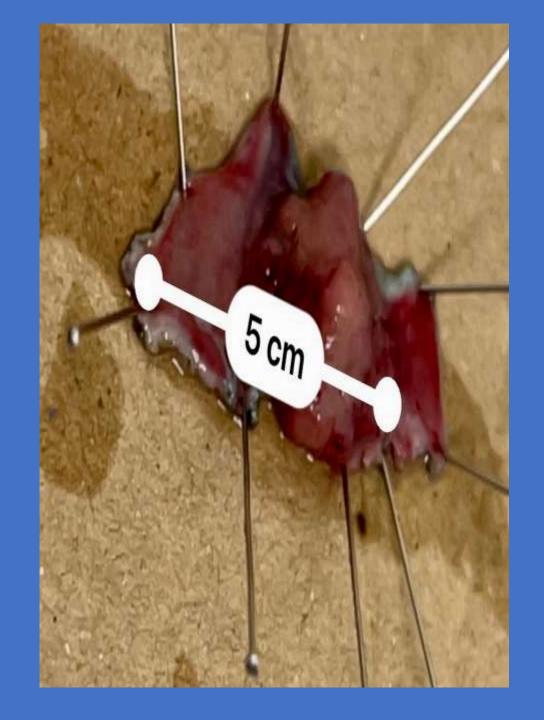
7G411K070

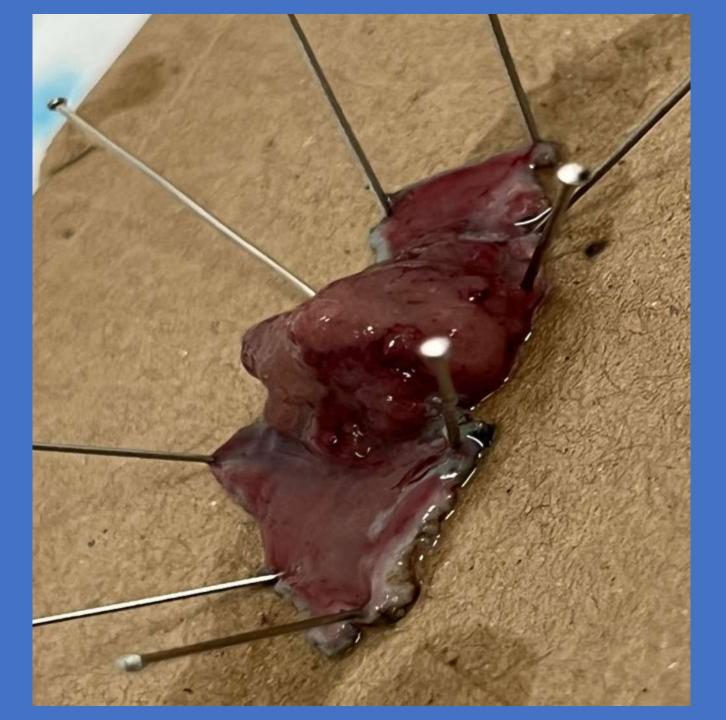
-**☆**- BL−7000

DAR ELSHEFA PROF. AHMED MADKOR







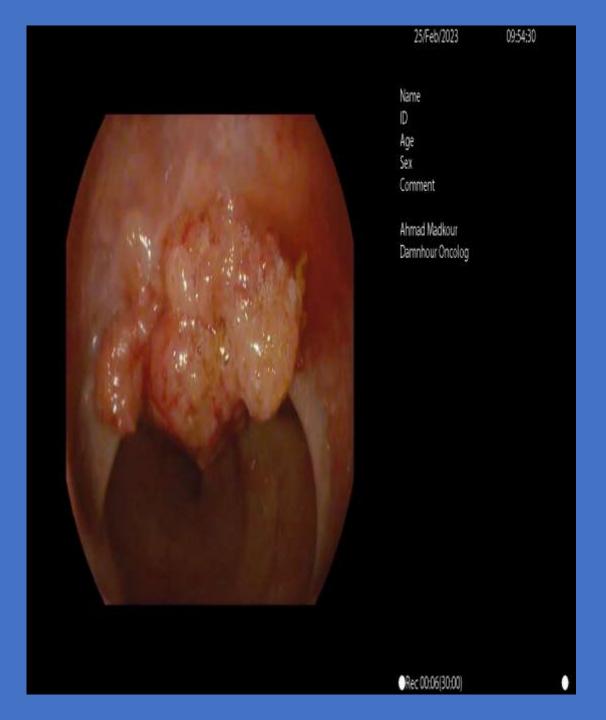


- Recurrent lesions after EMR
- IBD
- Severe Submucosal fibrosis
- SMT, NET

- ESD
- Precut EMR
- EFTRD

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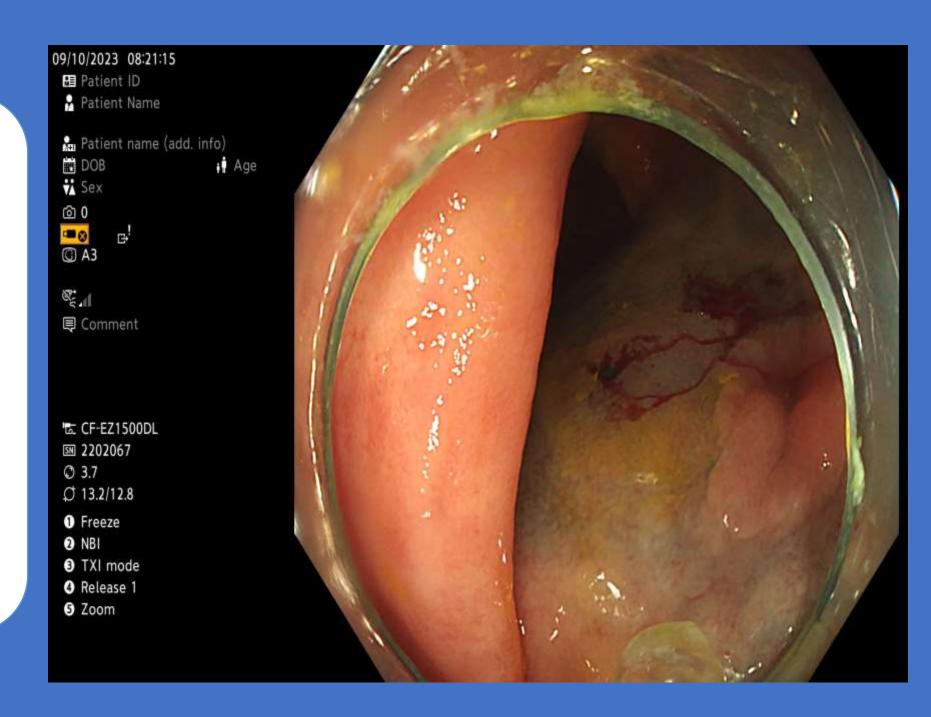




- Recurrent lesions after EMR
- IBD
- Severe Submucosal fibrosis
- SMT, NET

- ESD
- Precut EMR
- EFTRD

60 years old male with long standing UC follow-up colonoscopy showed small LST NG



- Recurrent lesions after EMR
- IBD
- Severe Submucosal fibrosis
- SMT, NET

- ESD
- Precut EMR
- EFTRD

16 Years old boy
with recurrent rectal
bleeding
Repeated Biopsy
(Hyperplastic,
Hamartoma,
Adenoma!!)







Is GIF-EZ1500
Is 2203104

O 2.8

Ø 9.9/9.6

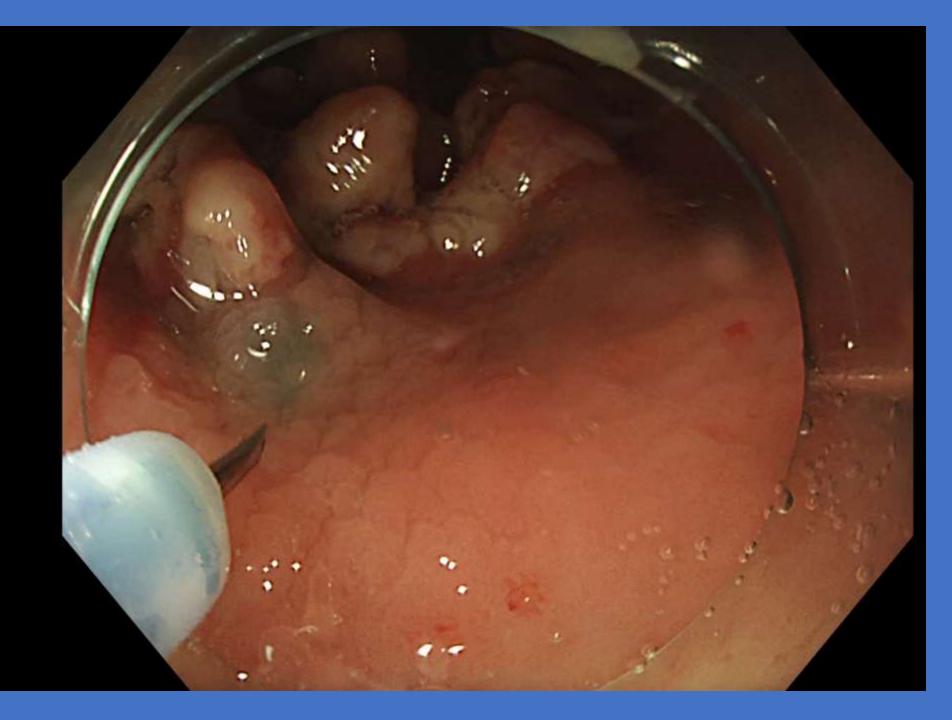
NBI

2 TXI mode

3 RDI

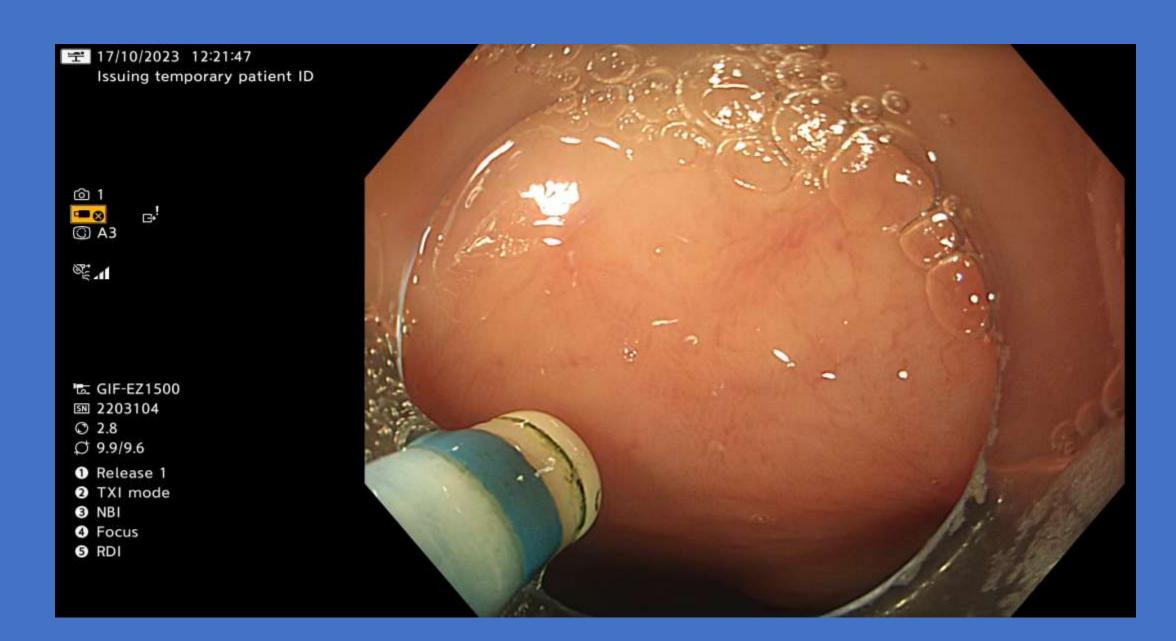
4 Focus

S Release 1

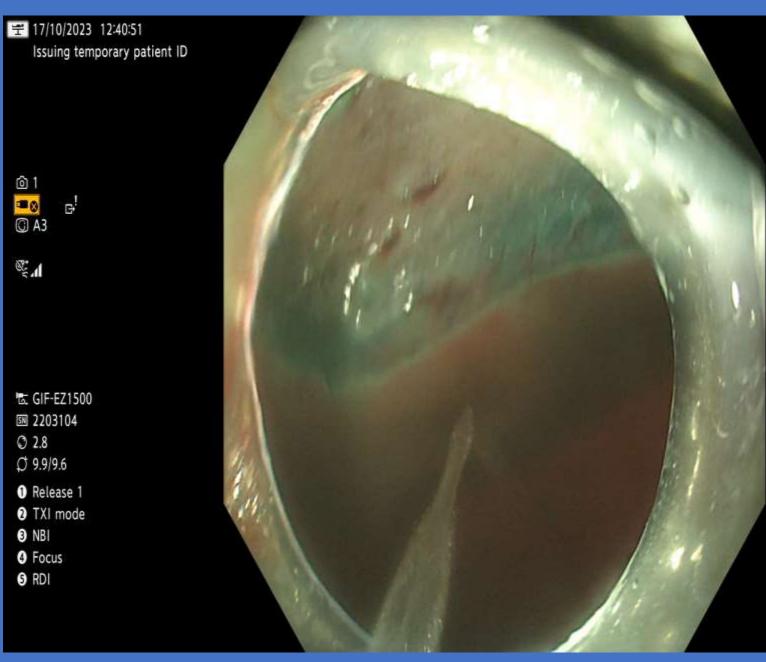


- Recurrent lesions after EMR
- IBD
- Severe Submucosal fibrosis
- NET

- ESD
- EFTRD









Always remember

Size and location is not a limitation

Just avoid deep submucosal invasion











Endoscopic Tunneling Technique

Basic Course











Hands-on Live animal





Selected candidate will be informed within one week



8-9 March 2023 ALEXEA





THIRD SPACE SPACE ENDOSCOPY EGYPTIAN TASK FORCE T S E E F



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Amr Fouly



Hany Shehab

Vice Chair





Khaled Ragab

Executive board member



Ahmad Galal

Executive board member



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Mohamad Mohamady Executive board member



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Mohamad Hamza



Hany Abou Taleb



Abd Elaziz Gaber



Hamdy Sayed

EGYPTIAN SOCIETY OF DIGESTIVE ENDOSCOPY, THIRD SPACE ENDOSCOPY

COMMITTEE

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Dr. Marwan Hamid



Dr. Mohamed Acharki



Dr. Rafik Chihoub



Dr. Resheed Alkhiari



Dr. Sami Bou -dabbous



Dr. Zaher Houmani



