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Department of Surgery
香港大學外科學系

HKUMed successfully performed Asia's first magnetic sphincter augmentation for gastroesophageal reflux disease

Press Conference
December 17, 2019





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Speakers

Professor Simon Law Ying-kit

Cheung Kung-Hai Professor in Gastrointestinal Surgery

Chair Professor and Chief of Division

of Esophageal and Upper Gastrointestinal Surgery

Department of Surgery

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Dr Ian Wong Yu-hong

Clinical Assistant Professor

Department of Surgery

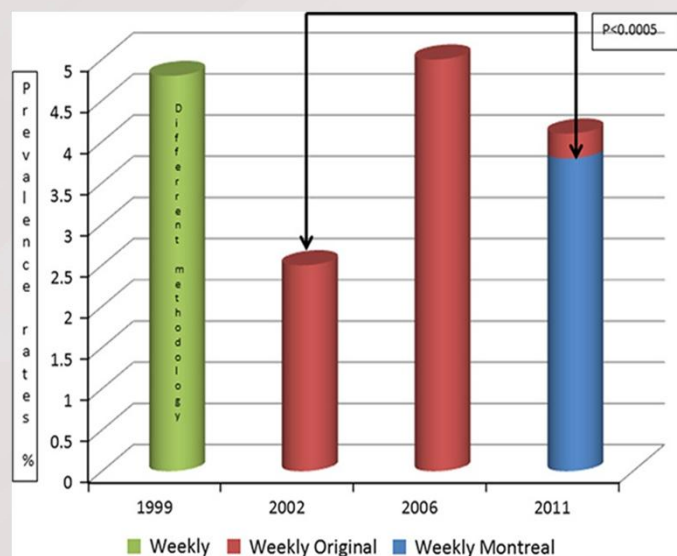
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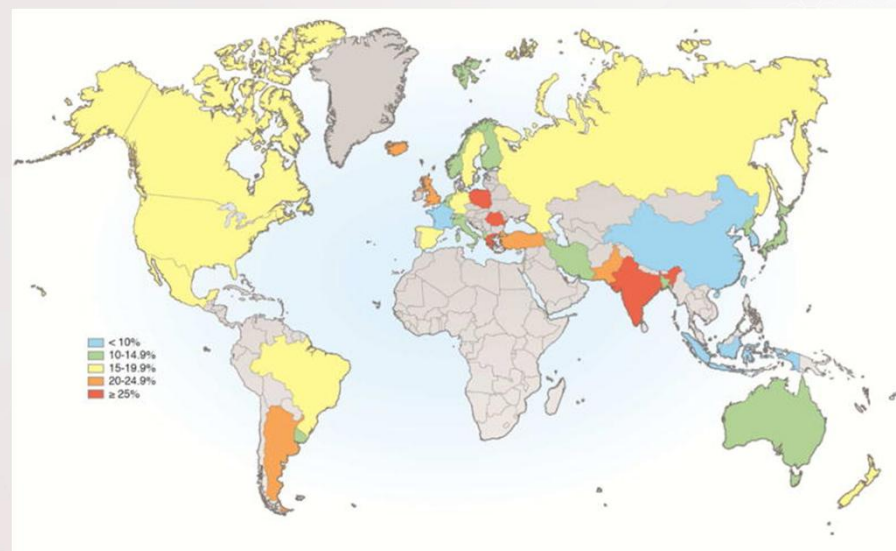
Background

Prevalence of Gastroesophageal Reflux Disease in Asia is increasing



Prevalence relatively low in SE Asia

Rising local prevalence of GERD



Tan et al., *J Clin Gastroenterol*, 2016

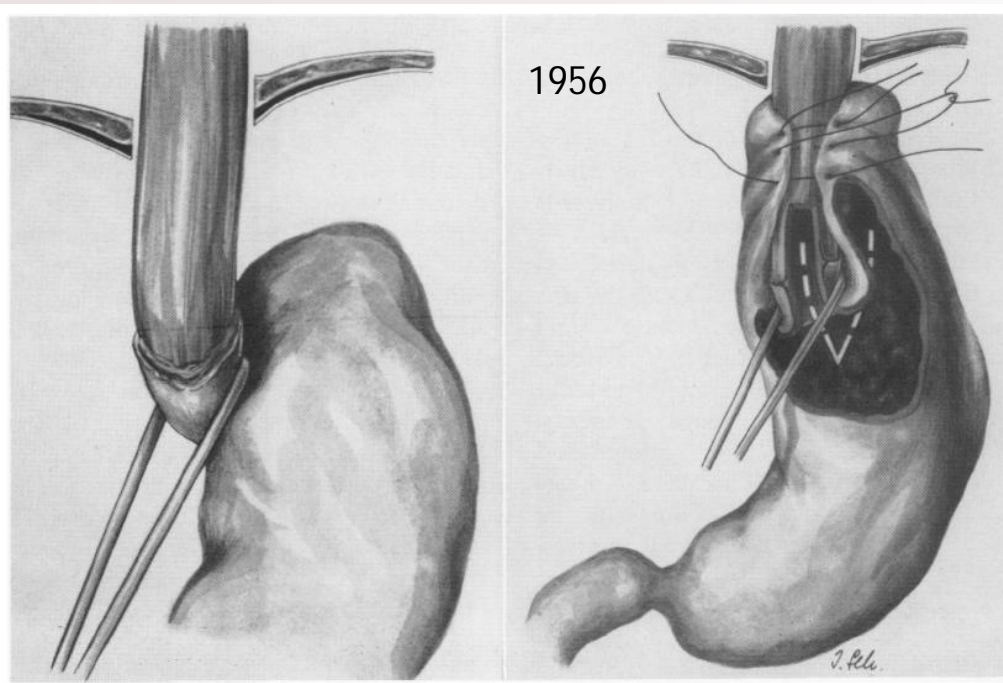
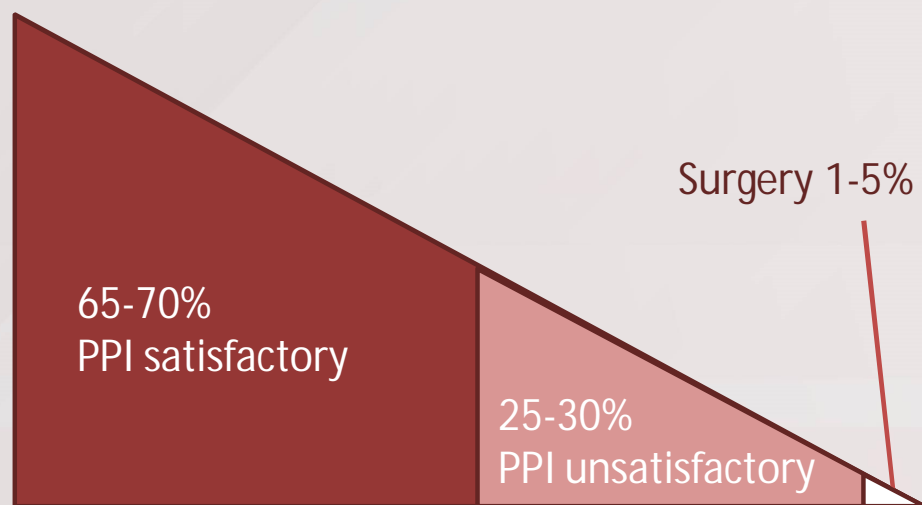
Richter et al., *Gastroenterology*, 2018



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Treatment Options



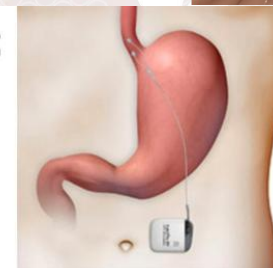
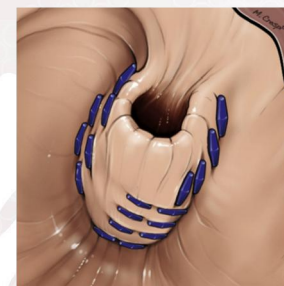
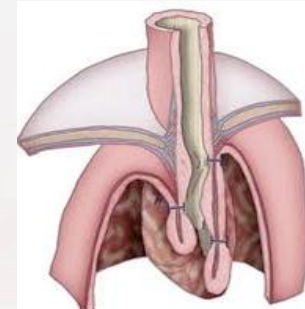
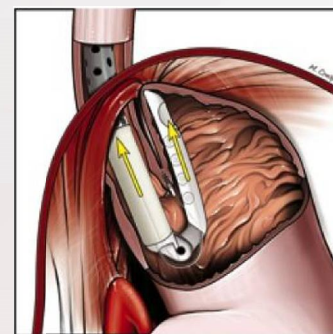
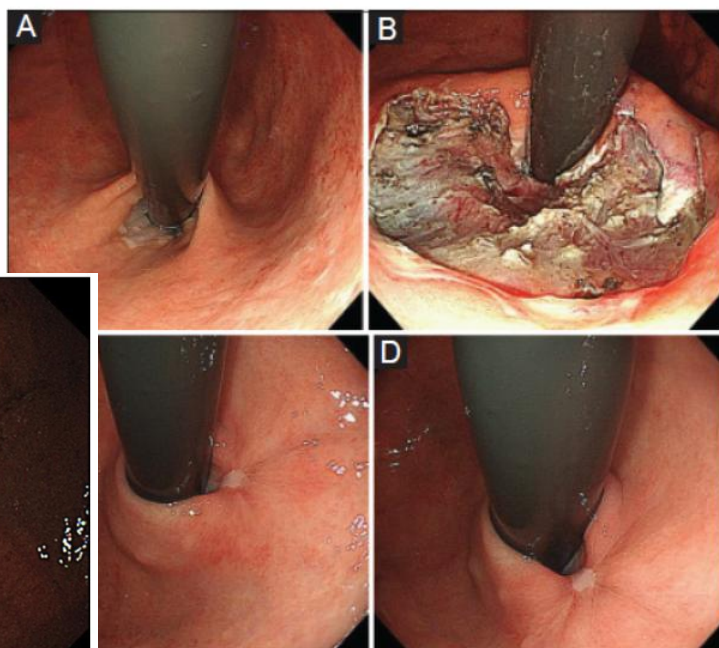
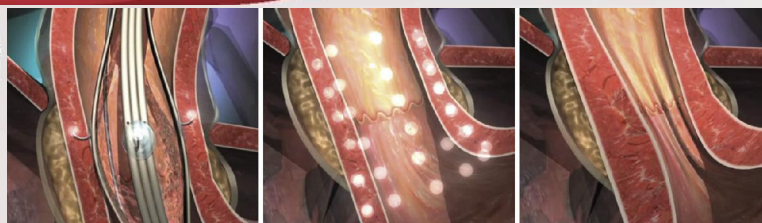
Krupp et al. Ann Surg. 1966

Aziz et al. Gastroenterology 2016;150:1368–1379

Herregods et al. Neurogastroenterol Motil (2015) 27, 1267–1273



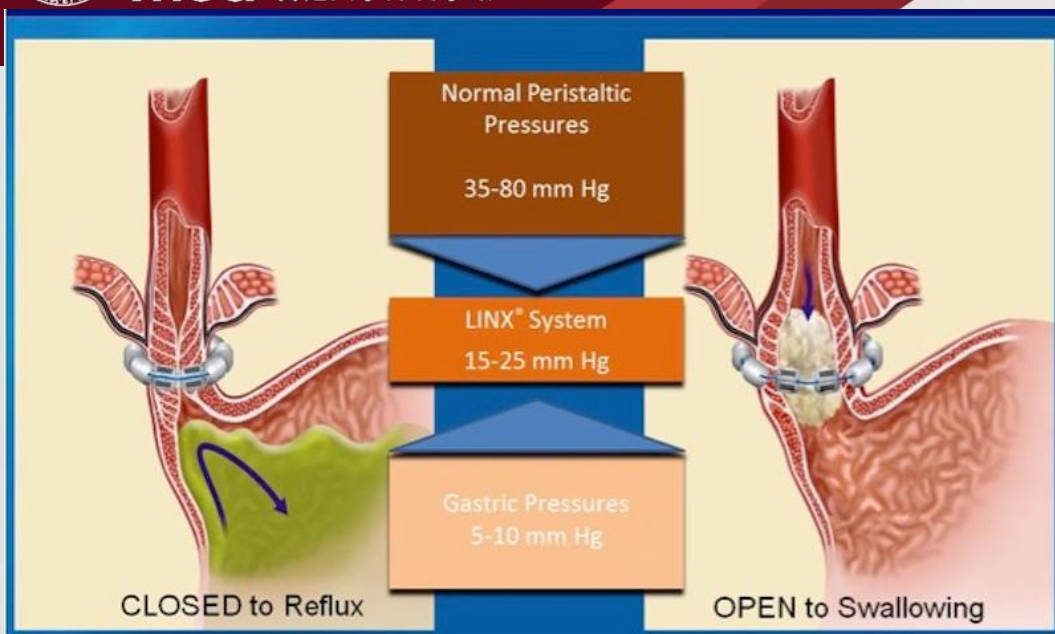
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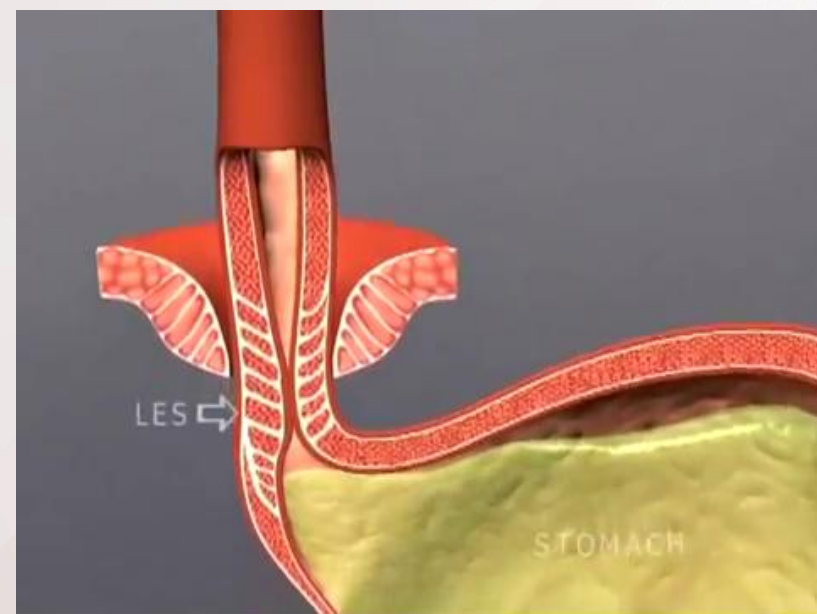


The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Esophageal Sphincter Device for Gastroesophageal Reflux Disease

Robert A. Ganz, M.D., Jeffrey H. Peters, M.D., Santiago Horgan, M.D.,
Willem A. Bemelman, M.D., Ph.D., Christy M. Dunst, M.D.,
Steven A. Edmundowicz, M.D., John C. Lipham, M.D., James D. Luketich, M.D.,
W. Scott Melvin, M.D., Brant K. Oelschlager, M.D., Steven C. Schlack-Haerer, M.D.,
C. Daniel Smith, M.D., Christopher C. Smith, M.D., Dan Dunn, M.D.,
and Paul A. Taiganides, M.D.

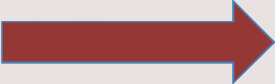




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1st Asia Magnetic Sphincter Augmentation June 2019

- Acid reflux and heartburn for 6 years
- 24 hours acid exposure time
14.5%  1.5%
(5 months after surgery)
- Symptoms & drug free



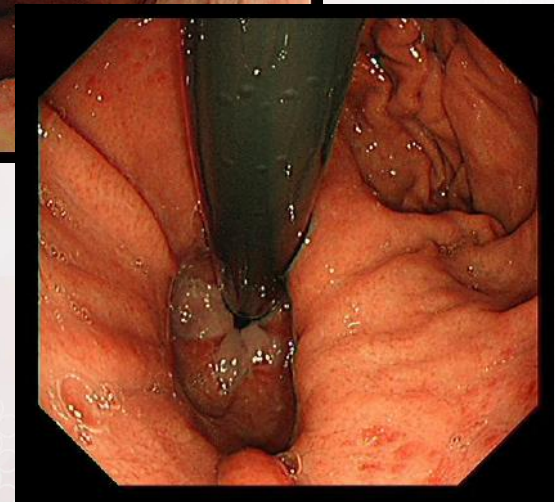
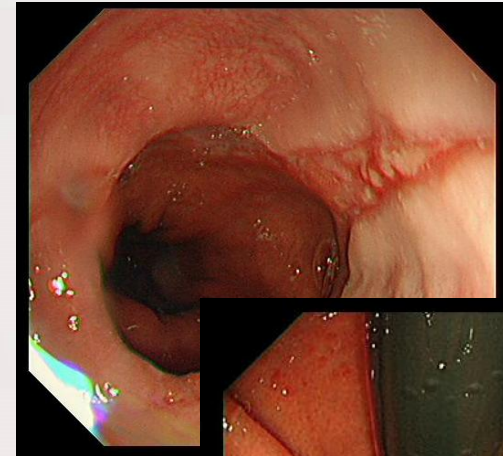


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- Chronic acid reflux and heartburn for more than 10 years
 - Worsen symptoms at night, lying supine and after full meal, waking patient up
 - 80-90% responsive to anti-reflux medication
- Endoscopy: esophagitis and hiatus hernia
- Does not want long term medication

Most Recent Magnetic Sphincter Augmentation November 2019



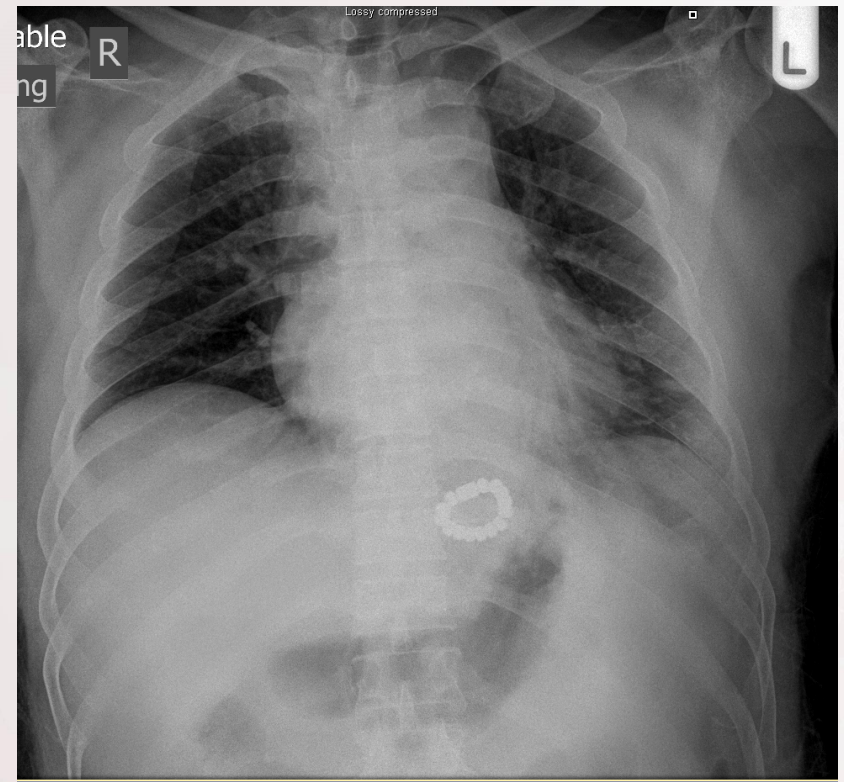


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Most Recent Magnetic Sphincter Augmentation November 2019

- Visited pre-admission anaesthetic clinic
- Admitted 7:00am on day of operation
- Operation started at 1:00pm
- Soft diet after surgery
- Discharged around 7:00pm first day after surgery





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Conclusion

- Increasing prevalence of GERD in HK
- Surgery is one of the treatment options for patients who
 - Want to avoid long term medication
 - Have refractory symptoms & complications
- Magnetic sphincter augmentation as an alternative
 - Comparable results with fundoplication
 - Less bloating and allow to belch
 - No alteration of stomach anatomy
 - Simple procedure. Quick Recovery

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Question & Answer

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