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No potential conflicts of interest to disclose





Why did we do the study?

- LSG works
- What about reflux post LSG?
 - 11-34%, 9-83.33% (Oor JE 2016, Pavone G 2022)
 - Heterogeneity in opinion and technique ie. omentopexy (Mahawar 2020)
 - Rates of BE 18% (Sebastianelli 2019)



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So what do we tell our patients?





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AIMS



Single centre

Perioperative protocols



Technique

bougie, hiatal dissection, omentopexy



Single surgeon

Selection, perioperative assessment + care



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Inclusion	Exclusion
1. No pre-operative symptoms (not de novo	1. PPIs
reflux)	2. Preoperative symptoms of GORD on clinical
2. Able to attend follow up at 24 months	history
	3. Medium size (>4 cms) or larger hiatal hernias
	4. Undergoing revision from lap band to LSG.
	5. Subsequent revision to RNY gastric bypass due
	to surgical complications of leak or stricture
	formation



METHODS



Primary end points:

De novo reflux disease.

+ve EGD and/or Histo



Secondary end points:

Asymptomatic reflux

- <8 on the RDQ prior EGD with +ve EGD/histo/both.
- BE on histo



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Eligible participants at pre-gastroscopy interview

• ie. post op weight, height, smoking, RDQ

Endoscopic findings:

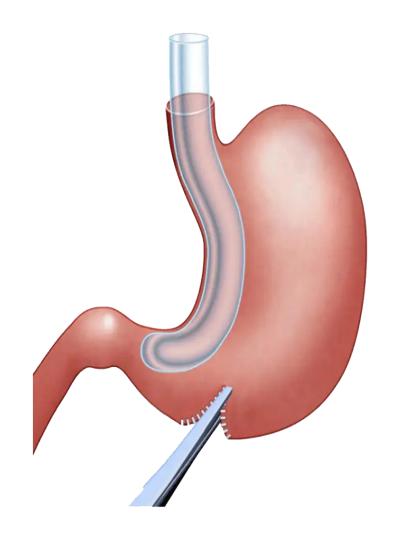
LA classification, Prague classification for BE, Macroscopic evidence of GERD or BE

Histological evidence of GERD or BE determined by pathologist



SURGICAL TECHNIQUE

- 1. Placement of Bougie 36Fr
- 2. Gastrectomy 4-5cm from pylorus
- 3. Full exposure L crus
- Preserve pleural peritoneal membrane if no HH
- 5. Cruraplasty only if dimple present
- 6. Omentopexy using V-Loc absorbable



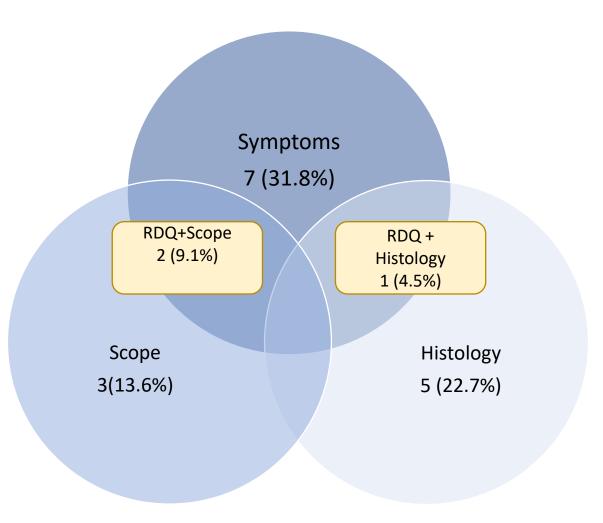
RESULTS

22 eligible **97 LSG Patients** 34 Eligible patients patients scoped 2015-2018 63 ineligible 12 patients lost to patients follow-up



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RESULTS





RESULTS

- Average follow up: 62.2 months
- Reflux on EGD: 13.6%
- GERD on histology: 21.7%
- Criteria was either scope or histology therefore TOTAL:
 36.4%
 - No BE on scope



RESULTS: Group Analysis

De novo reflux

- 8 patients
- Av. Age: 49
- Duration FU: 55.5 months
- Post op BMI: 37.91 (p=0.1)
- 50% regular alcohol (RR1.75, p=0.31, OR 2.5 p=0.32)
- Diabetic: 25%

Mean weight loss: 21.6kg in both groups

No de novo reflux

- 14 patients
- Av. Age: 46
- Duration FU: 61.5 months
- Post op BMI: 33.96 (p=0.1)
- 0% regular alcohol
- Diabetic 21%





What did we learn?

Incidence of De Novo reflux

Higher total BMI more likely to develop De Novo reflux

Challenges of doing clinical research during lockdown in COVID

