Conversional OAGB: A Safe and Effective Procedure

The Efficacy of Conversional One Anastomoses Gastric Bypass post Sleeve Gastrectomy and Gastric Band: A Large Single Cohort Series

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No Disclosures

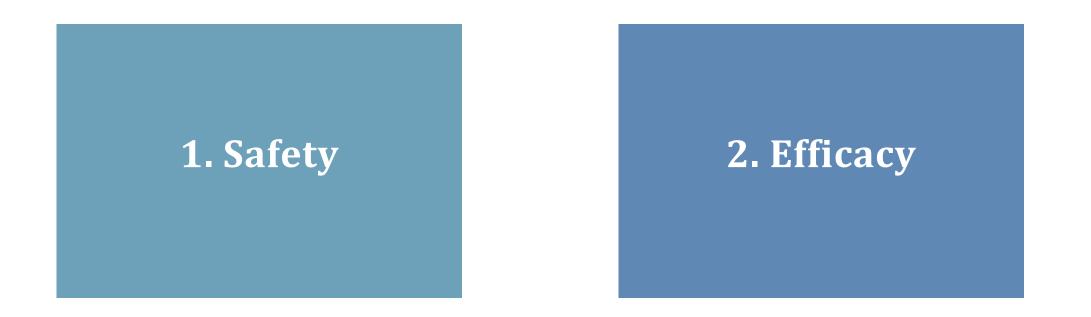
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cOAGB

- Conversional One Anastomosis Gastric Bypass (cOAGB)
- Option alongside conversional roux-Y-gastric bypass (RYGB)
- Indications: reflux and suboptimal weight loss







3. Patient-reported outcomes

Methodology

- Retrospective review of 7-year prospective database
- Single-surgeon, single-centre
- Technique: stomach divided 3cm below incisura with stapler handsewn GJ anastomosis

- Patient survey:
 - GERD-QOL questionnaire (significant symptoms if >12 / 30) 0
 - Satisfaction score (0-10) 0
 - Are they happy with this procedure? (Y/N)0
 - Would they have had this procedure again? (Y/N)0



> Aliment Pharmacol Ther. 2010 Feb 1;31(3):452-60. doi: 10.1111/j.1365-2036.2009.04187.x. Epub 2009 Oct 31.

Development and validation of a disease-specific quality of life questionnaire for gastro-oesophageal reflux disease: the GERD-QOL questionnaire

Y Chan¹, J Y L Ching, C M Y Cheung, K K F Tsoi, S Polder-Verkiel, S H Y Pang, W L Quan, K M Kee, F K L Chan, J J Y Sung, J C Y Wu

	Mean age	48.6 years
	Sex: females	223 (85.4%)
	Indications:	
	Suboptimal weight loss	176 (67.4%)
	Reflux	138 (52.9%)
Baseline Parameters	Other (band complications, dysphagia)	20 (7.7%)
	Previous bariatric procedure:	
	LAGB	159 (60.9%)
	SG	87 (39.1%)
	Both (LAGB converted to SG)	15 (5.8%)
	Concurrent procedures:	
	Band removal	125 (47.9%)
	Cholecystectomy	15 (5.7%)
	Hiatal hernia repair	40 (15.3%)
	Inguinal or ventral hernia repair	6 (2.3%)

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1. Safety

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2. Efficacy



3. Patientreported outcomes

		Perioperative Morbidity (<30 days)	Late Interventions (>30 days)
	High Grade (< Clavien-Dindo grade 3a)	 1.1% (n=3) 1 escharotomy at band removal site 1 stomach perforation 	 <u>Non-reflux related: 2.6%</u> (n=6) 3 port-site hernias 2 perforated stomal ulcers (1 RYGB, 1
1. Safety		 at site of removed lap band 1 bleeding 	 patch repair) 1 adhesive small bowel obstruction
98.9% home the following day		anastomotic ulcer	 <u>Reflux related: 6.9%</u> (n=18) 2 RYGB 16 enteroenterostomy
	Low Grade (< Clavien-Dindo grade 3a)	 5% (n=13) 9 minor port-site infections 3 low Hb levels One peri-anastomotic haematoma 	 5.7% (n=15) 14 anastomotic ulcers 1 reflux oesophagitis

Comparison to Literature

> Surg Obes Relat Dis. 2021 Jun;17(6):1080-1087. doi: 10.1016/j.soard.2021.01.020. Epub 2021 Jan 23.

Revisional bariatric surgery to single-anastomosis gastric bypass: a large multi-institutional series

Andrew Phillip Maurice ¹, Scott Warren Miron ², Lachlan Robert Yaksich ², George Herbert Hopkins², Benjamin Rees Dodd²

N=254 cOAGB

Multicenter Study > Obes Res Clin Pract. 2024 May-Jun;18(3):195-200.

doi: 10.1016/j.orcp.2024.06.001. Epub 2024 Jul 1.

30-day morbidity and mortality of revisional bariatric surgery - An international multi-centre collaborative (BROAD) study

Amrit Manik Nasta¹, Ramen Goel², Rishi Singhal³, Luc Lemmens⁴, Sarfaraz Baig⁵, Et al.

<30 day complications: cOAGB: N=145, 6.2% cRYGB: N=308, 12.6%

<30 days = 19% >Clavien-Dindo grade 3a

2. Efficacy

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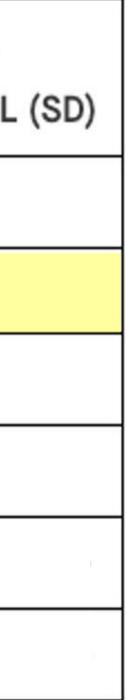




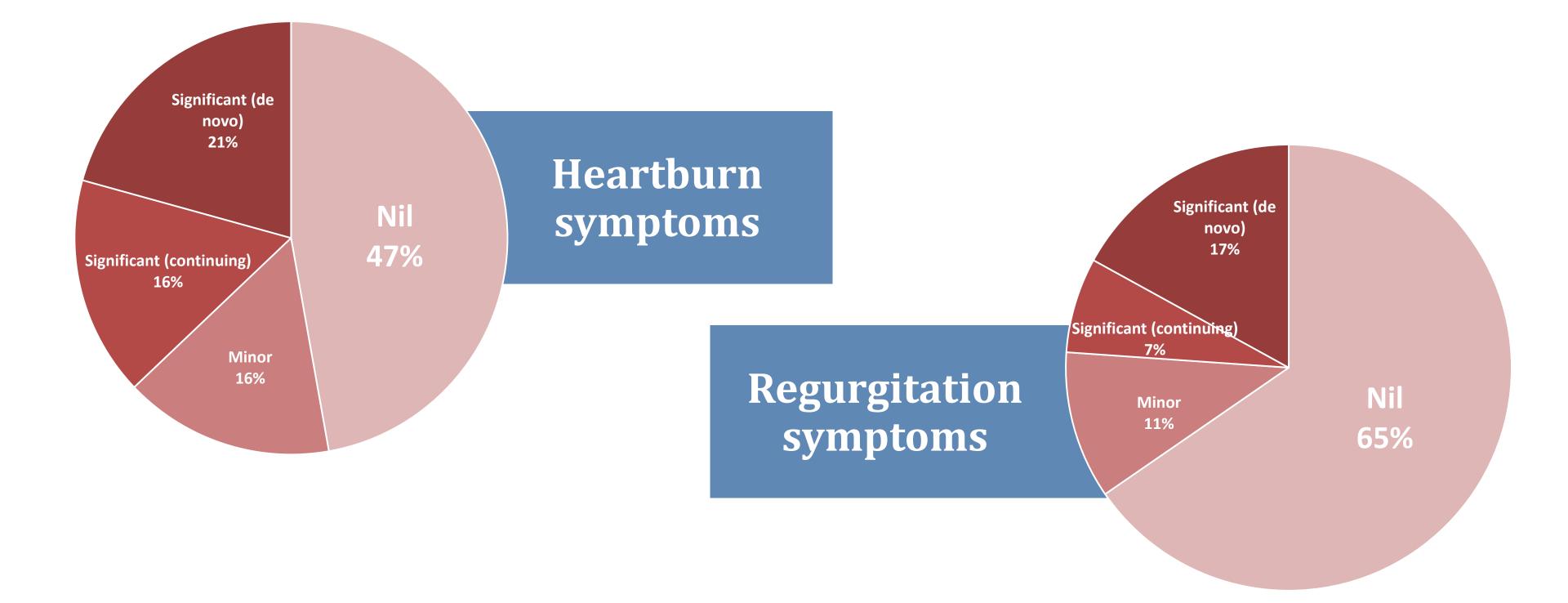
Weight Loss

Follow-up Period	Mean % TBWL, % (SD)	Mean %EWL
<1 year	18.9	41.0
1 year	20.7	58.2
2 years	25.1	80.0
3 years	22.1	68.6
4 years	26.3	62.9
≥5 years	19.8	56.6





Postoperative Reflux



Post-Operative Complications

• 59.1% on reflux medication (≥ 1 /week)

• Limited effect of taking medications on quality of life was 1.9 / 5



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Intractable Reflux

• Intractable reflux requiring reoperation in 18 patients (6.9%)

• 16 enteroenterostomy (Braun loop) afterwards, all happy with the cOAGB and would have undergone it again

Series

Muhammad Qutayba Almerie¹, Jennifer H Darrien², Shafiq Javed², David D Kerrigan²

> Ann Med Surg (Lond). 2022 Mar 28:76:103544. doi: 10.1016/j.amsu.2022.103544. eCollection 2022 Apr.

Azita Shishegar¹, Matin Vahedi², Fereshteh Kamani², Mehrdad Fathi Kazerouni³, Morteza Aghajanpour Pasha⁴, Farhad Fathi²

> Obes Surg. 2021 Aug;31(8):3880-3882. doi: 10.1007/s11695-021-05443-5. Epub 2021 Apr 29.

Braun Procedure Is Effective in Treating Bile Reflux Following One Anastomosis Gastric Bypass: a Case

Comparison between Roux-en-Y gastrojejunostomy and Billroth-II with Braun anastomosis following partial gastrectomy: A randomized controlled trial

Reflux in the Literature

Multicenter Study > Obes Surg. 2021 Jul;31(7):2927-2934. doi: 10.1007/s11695-021-05334-9. Epub 2021 Mar 25.

Sleeve Gastrectomy Failure-Revision to Laparoscopic One-Anastomosis Gastric Bypass or Roux-n-Y Gastric Bypass: a Multicenter Study

Shlomi Rayman ¹ ², Dan Assaf ³, Carmil Azran ⁴, Gideon Sroka ⁵ ⁶, Ahmad Assalia ⁷, Nahum Beglaibter ⁸, Ram Elazary ⁹, Shai Meron Eldar ¹⁰, Orly Romano-Zelekha ¹¹, David Goitein ³ ¹²

GORD rate at 1 year post: **cOAGB** (n=144) = 17.4% **cRYGB** (n= 119) = 7.6%

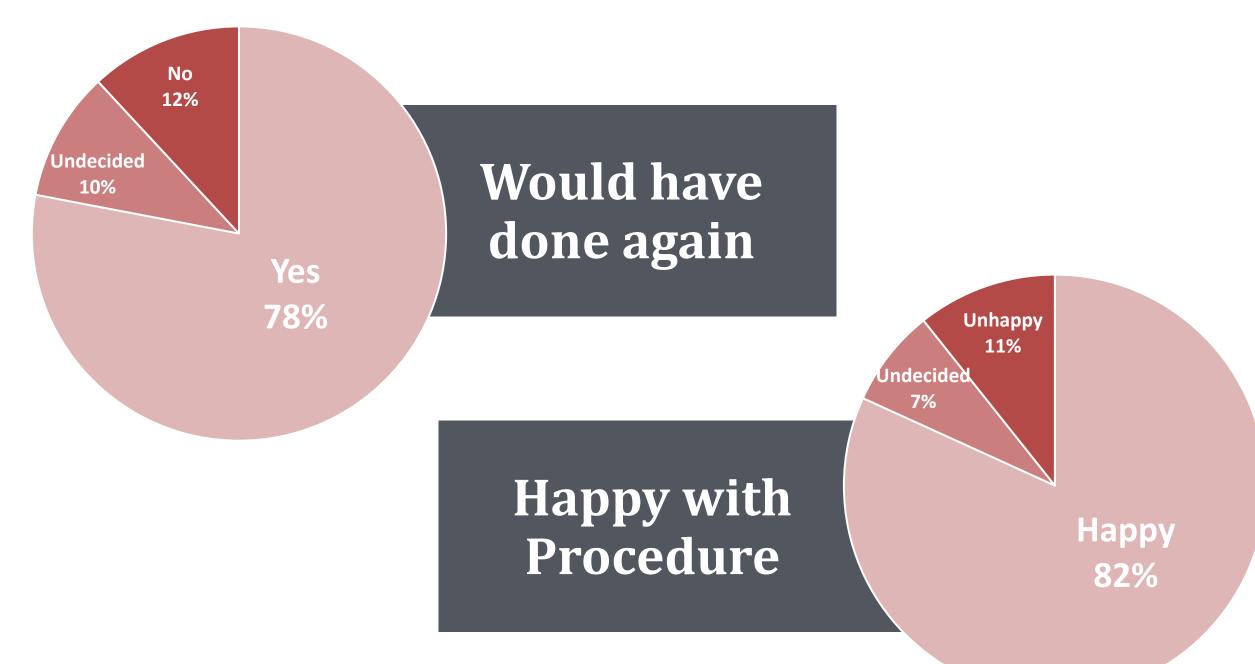
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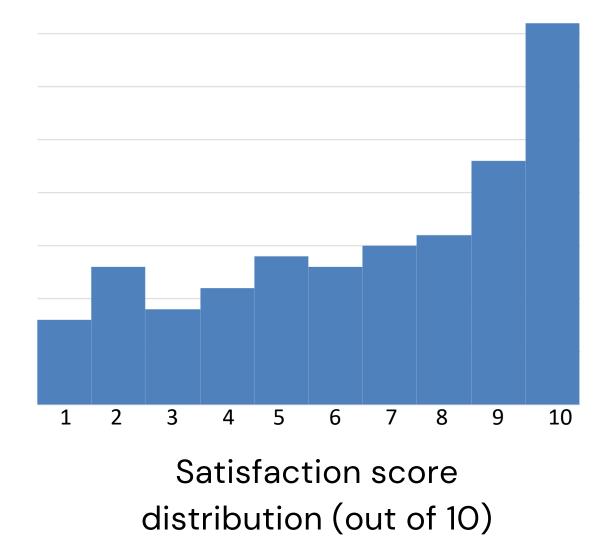


3. Patientreported outcomes

Patient Satisfaction







Limitations

- Follow-up
 - Especially with survey responses
- Objective measures of outcomes
 - pH, impedance monitoring, routine endoscopy



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Conclusions

cOAGB is **safe** and **works well**.

- Minimal early morbidity ~99% home following morning
- Reflux may persist or develop
 - Enteroenterostomy is a good tool to consider (100% satisfaction) 0

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