Jejuno-jejunostomy makes RYGB more difficult than OAGB

chronic pain, intussuception, hypoglycemia

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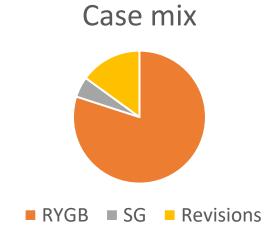


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Advisory board- Johnson & Johnson, NovoNordisk

Education activities- Johnson & Johnson, NovoNordisk, Sandoz

Reimbursement to my academic institution



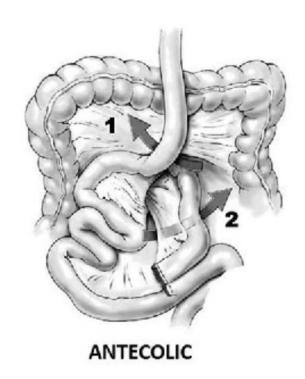
The history of laparoscopic RYGB

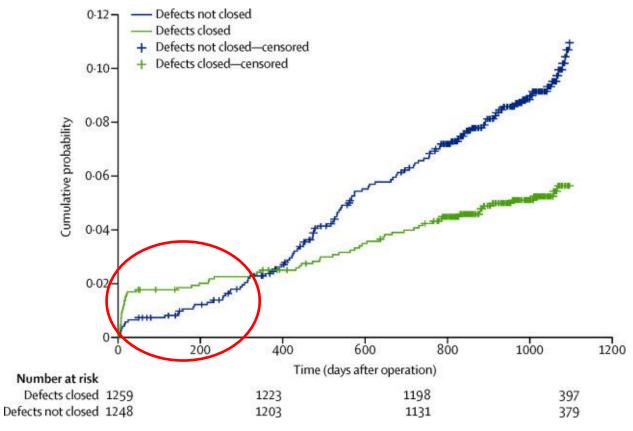
- The first widespread laparoscopic bariatric procedure
- Many surgeons' learning curves
- Accumulation of patients with internal hernia (20%)
- Learning curves when closing mesenteric defects
- The juniors first performed the JJ

Today > lap RYGB 2.0 in a mature MDT context

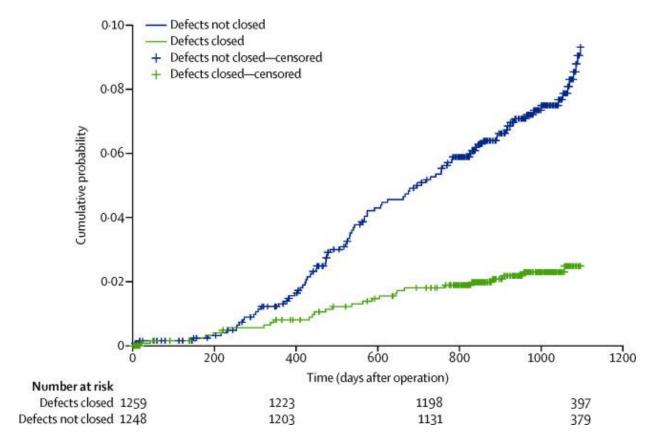


Internal herniation





Stenberg et al, Lancet 2016



Stenberg et al, Lancet 2016

How do we identify those having problems

arising from problems at the JJ?

Abdominal pain and/or vomiting are **NOT** normal after RYGB!





Gastro-Intestinal Symptoms

	RYGB	Non-Surgical	RYGB 2y	Non-Surgical 2y	Mean diff
Diarrhoea	1·6 (1·2 to 2·1)	1·7 (1·3 to 2·1)	1·4 (1·0 to 1·8)	1·6 (1·1 to 2·0)	p= 0·854
Indigestion	2·6 (2·1 to 3·1)	2·6 (2·1 to 3·0)	2·3 (1·8 to 2·8)	2·1 (1·6 to 2·6)	p= 0·658
Constipation	1·4 (1·1 to 1·8)	1·7 (1·4 to 2·0)	1·6 (1·2 to 2·0)	1·5 (1·1 to 2·0)	p= 0·282
Abdominal pain	2·0 (1·6 to 2·5)	2·4 (1·9 to 2·8)	2·2 (1·7 to 2·7)	2·1 (1·6 to 2·7)	p= 0·387
GERD	2·2 (1·8 to 2·7)	1·9 (1·4 to 2·3)	1·3 (0·8 to 1·8)	2·1 (1·5 to 2·6)	p= 0·02

No difference between groups over 2y, except GERD

Symptoms when problem at EA (=JJ)

- Abdominal pain (5-10 min after meal, gradually subsiding, upper left quadrant)
- Postprandial nausea/retching

- Often complex hypoglycaemia



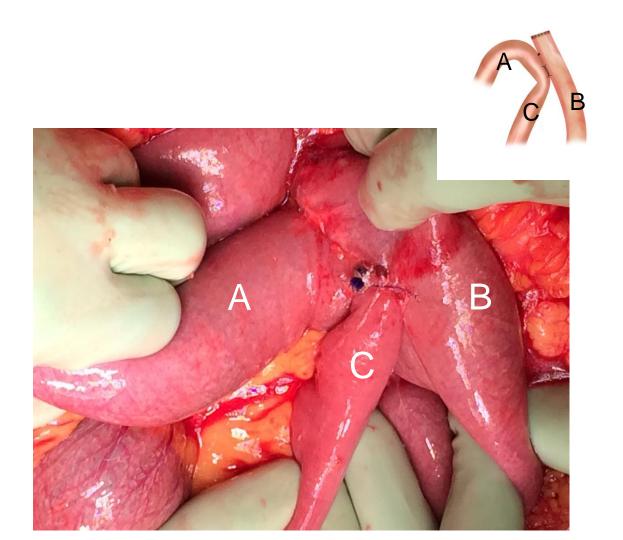
Dumping

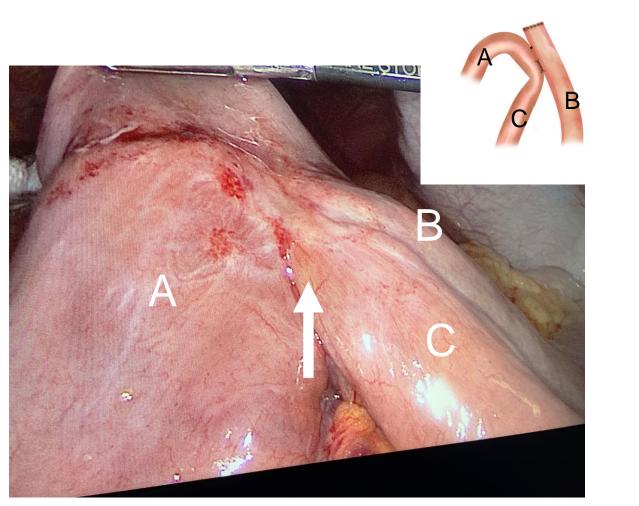
- Part of the mechanism of action
- **NOT** all the time
- Too fast, too much, too much sugar or fat
- Not a "complication", patients appreciate

Early dumping syndrome is not a complication but a desirable feature of Roux-en-Y gastric bypass surgery. Laurenius A, Engström M. Clin Obes. 2016 Oct.

Dysfunctional entero-anastomosis

not common, but also not uncommon...







ORIGINAL CONTRIBUTIONS



The Jejunojejunostomy: an Achilles Heel of the Roux-en-Y Gastric Bypass Construction

Suzanne Hedberg^{1,2} • Yao Xiao¹ · Adam Klasson¹ · Almantas Maleckas^{1,3} · Mikael Wirén^{4,5} · Anders Thorell^{4,5} · Anna Laurenius¹ · My Engström^{2,6} · Torsten Olbers^{1,7}



Dr Suzanne Hedberg, MD, PhD

Problem at the JJ?

Identified by ICD, operated by bariatric surgeon, Jan 1 2012 - Feb 28 2017. (JAW97, JFB00, JAP01, JFC01, JFK97). n=273

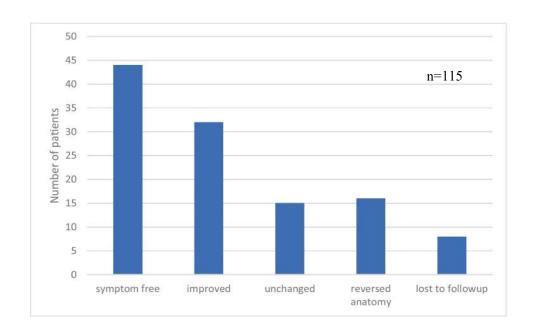
Retrospective study:

- medical charts,
- complementary
- telephone interviews

Excluded: No prior RYGB (n=122) Issue identified not related to JJ (n=23) Surgery within 30 days of RYGB (n=13) Review of medical records n=115

Fig. 1 Flowchart of the inclusion of patients with a prior Roux-en-Y gastric bypass (RYGB) who underwent revisional surgery due to suspected dysfunction of the jejunojejunostomy (JJ)

After surgical revision of the EA



Median time to follow-up 33 (12-75) months.

SURGERY FOR OBESITY AND RELATED DISEASES

ORIGINAL ARTICLE | ARTICLES IN PRESS

Surgical technique in constructing the jejunojejunostomy and the risk of small bowel obstruction after Roux-en-Y gastric bypass

Suzanne Hedberg, M.D.

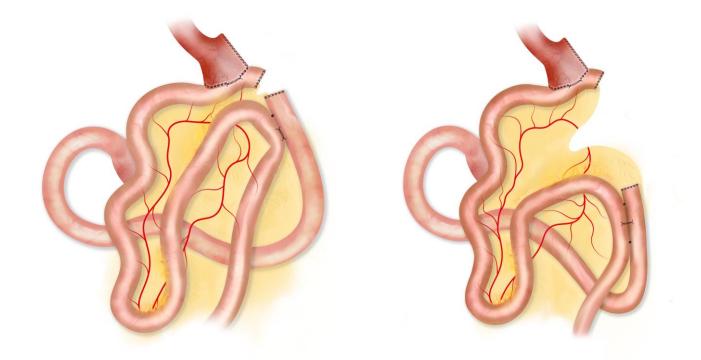
Anders Thorell, M.D., Ph.D. My Engström, R.N., Ph.D.

Anders Thorell, M.D., Ph.D.

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"Original" vs. most modified JJ:

- adjusted **OR** for SBO **0.24**, 95% CI 0.12–0.50, p<0.001)

Overall summary

- Surgical technique for constructing the JJ affects the risk of SBO
- Consider revision of the JJ in patients with post-prandial problems



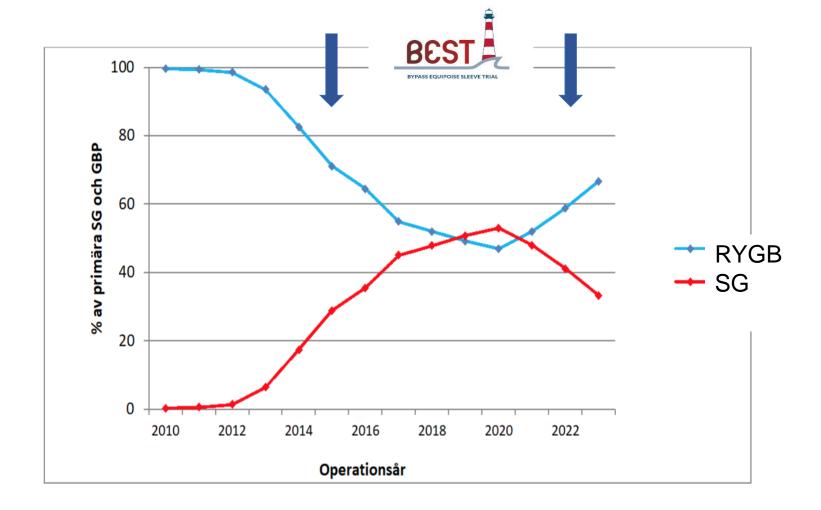
Considerations in RYGB patient with problems

- Vomiting
- Complex hypoglycaemia
- Nutritional problems

A surgical problem?

- Alcohol
- Problems previously being being hidden by obesity?





Conclusions/ reflections...

- Chronic problems after RYGB need to be addressed in a multidisciplinary team
- If vomiting and postprandial problems- high likelihood a surgically correctable problem- often at the JJ
- Complex surgical problems can happen in patients with complex psychological problems..
- A small group should be considered for reversal to restore normal anatomy. Maybe not "tolerating" RYGB?







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