How I changed my limb length throughout the years. What is the evidence?

Khaled Gawdat,M.D.Professor of SurgeryAin- Shams School of MedicinePresident IFSO MENA ChapterAssociate and Advisory Editor Obesity SurgeryCairo Egypt





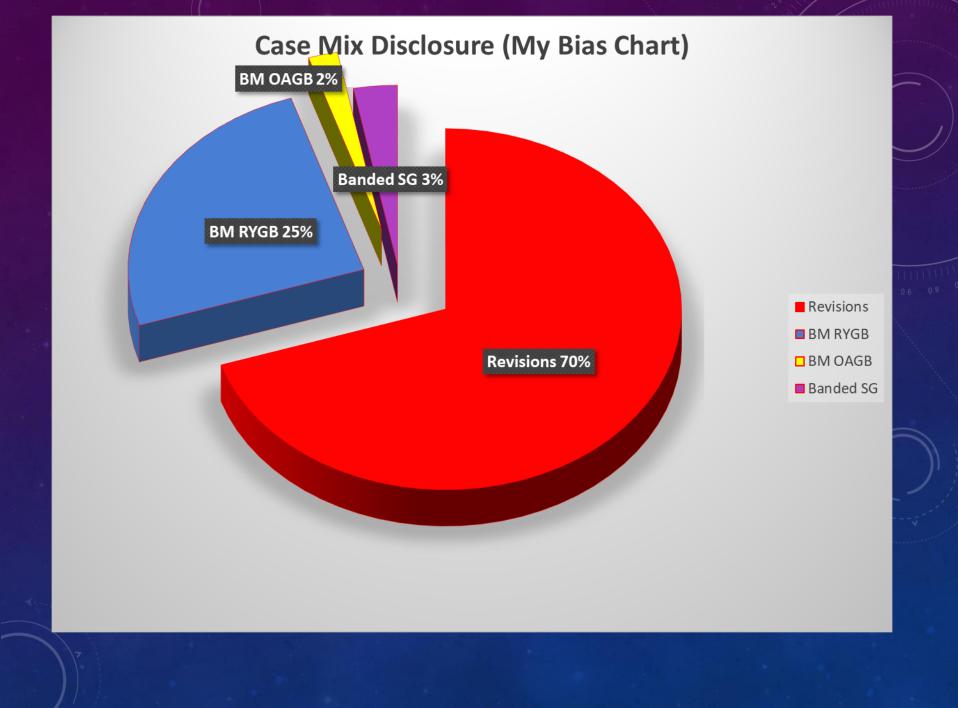
RESTRICTED UNDER 17 REQUIRES ACCOMPANYING PARENT OR ADULT GUARDIAN

STRONG LANGUAGE, THOUGHTS AND IDEAS

DISCLOSURES



Unfortunately non







" The aim of argument should not be victory, but progress.."

~ Karl Popper

"Facts do not cease to exist because they are ignored."

- Aldous Huxley www.facebook.com/poets01



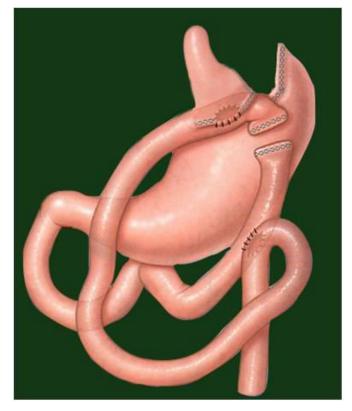
www.facebook.com/poetso1

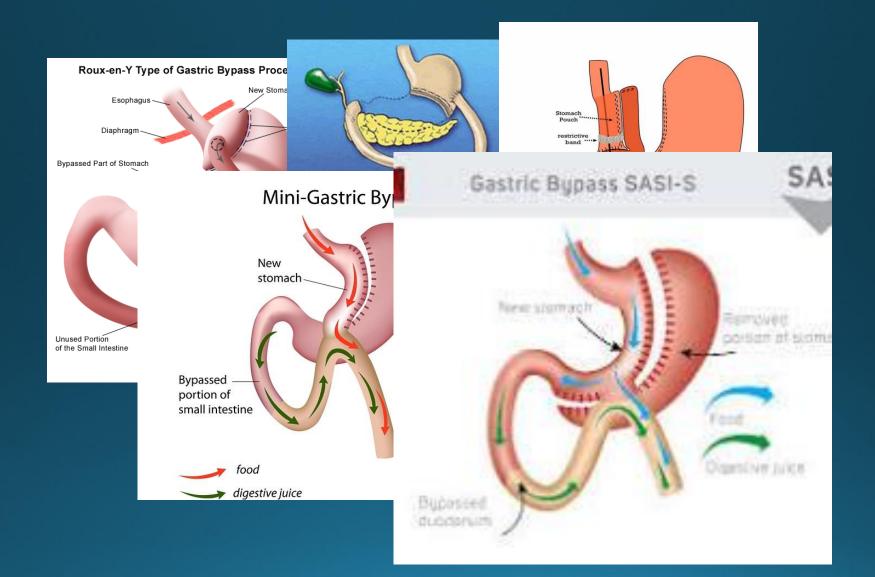
WE DISTORT KNOWLEDGE FURTHER WHEN WE ABSTRACT LAYERS OF COMPLEXITY INTO ONE SIMPLE WORD

Gastric Bypass

Gastric Bypass Variables

- Pouch size
- Pouch Enforcement
- Stoma Size
- Alimentary limb
- Biliopancreatic limb
- Common Channel
- Omega Vs Roux en Y





THE OAGB STORY

1993-2000 race to establish lap Schauer, Higa, Gagnier, <u>Lonroh</u> d > Obes Surg. 2005 Oct;15(9):1304-8. doi: 10.1381/096089205774512663.

Continued excellent results with the mini-gastric bypass: six-year study in 2,410 patients

Robert Rutledge ¹, Thomas R Walsh

- 1998 Rutledge invented lap laparoscopic RYGB, no scier commercial reasons
- Published good 6 year out communications)
- WJ Lee made a prospective that OAGB was better THE I Diabet
- JM chevalier reported shortened that to 150
- Yomega trial in Franc

<u>J Minim Access Surg.</u> 2016 Oct-Dec; 12(4): 305–310. doi: <u>10.4103/0972-9941.181352</u> PMCID: PMC5022508 PMID: <u>27251826</u>

Current status of mini-gastric bypass

Kamal K. Mahawar, Parveen Kumar,¹ William RJ Carr, Neil Jennings, Norbert Schroeder, Shlok Balupuri, and Peter K. Small

In their comparative analysis of RYGB and MGB over a 10-year period, Lee *et al.*[<u>3</u>] found that at 5 years, MGB had a significantly lower body mass index (BMI) (27.7 vs 29.2) and higher excess weight loss (EWL) (72.9% vs 60.1%); there was no significant difference in the improvement of comorbidities. A randomized study from the same group[<u>14</u>] showed a lower complication rate with MGB (7.5% vs 20%, P < 0.05) and a higher proportion of patients achieving an EWL >50% (95% vs 75%, P < 0.05). We have also observed similar results in our practice.

THE LANCET Diabetes & Endocrinology

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ARTICLES · Volume 12, Issue 4, P267-276, April 2024

Efficacy and safety of one anastomosis gastric bypass versus Roux-en-Y gastric bypass at 5 years (YOMEGA): a prospective, open-label, non-inferiority, randomised extension study

Prof Maud Robert, MD $\stackrel{a,b}{\sim} \stackrel{\boxtimes}{\to} \stackrel{\boxtimes}{\to} \frac{}{1$ igran Poghosyan, MD $^{c} \cdot Prof Delphine Maucort-Boulch, MD <math>^{d,e} \cdot Dr Alexandre Filippello, MD <math>^{g} \cdot Prof Robert Caiazzo, MD ^{h} \cdot Adrien Sterkers, MD <math>^{i} \cdot Lita Khamphommala, MD ^{i} \cdot Prof Fabian Reche, MD <math>^{j} \cdot Vincent Malherbe, MD ^{k} \cdot Adriana Torcivia, MD ^{l} \cdot Toufic Saber, MD <math>^{m} \cdot Dominique Delaunay, PhD ^{a} \cdot Carole Langlois-Jacques, MSc <math>^{d,e} \cdot Augustin Suffisseau, MD ^{c} \cdot Sylvie Bin, MD ^{n} \cdot Prof Emmanuel Disse, MD ^{b,f} \cdot Prof François Pattou, MD ^{h} Show less$

Affiliations & Notes 🗸 🛛 Article Info 🗸 🛛 Linked Articles (1) 🗸

Bariatric literature with poor data Quality

Garbage in Garbage out Low quality data produces low quality statistical analysis low quality meta-analysis and low quality systematic reviews

THE GREATEST OF MANKIND'S CRIMINALS ARE THOSE WHO DELUDE THEMSELVES INTO THINKING THEY HAVE DONE THE RIGHT THING

History of Modern RYGB

- 1980s
- Good initial results
- Gold standard terminology vs VBG
- 1990s RYGB Failures prompted the search for modifications
- Banded Bypass (Fobi Capella)
- Distal Bypass (Brolin)
- Duodenal switch (Hess, Marceau)
- Laparoscopic (smaller pouch) Bypass

RYGB

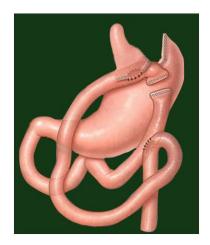
 A restrictive bariatric procedure with claimed MalAbsorpive and hormonal effects that is performed with infinite technical combinations and variations, with extremely variable outcomes and it is called the gold standard bariatric procedure by Harvey Sugarman.



Mechanism of Action of the Gastric Bypass Procedures

We do not know

- **Restrictive?**
- Mal-absorptive?
- hormonal elements?
- **Combination?**
- **Others (bile salts, gut flora, etc)**



What happens to bariatric patients on the long term

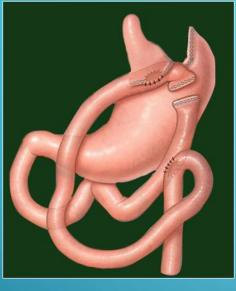
We don't know

Lack of long term studies

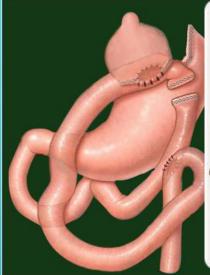
Poor long term follow-up rates

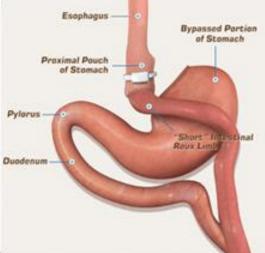
Should we measure preoperative hormones and follow up hormone changes for every body?

RYGB WHY BAND?



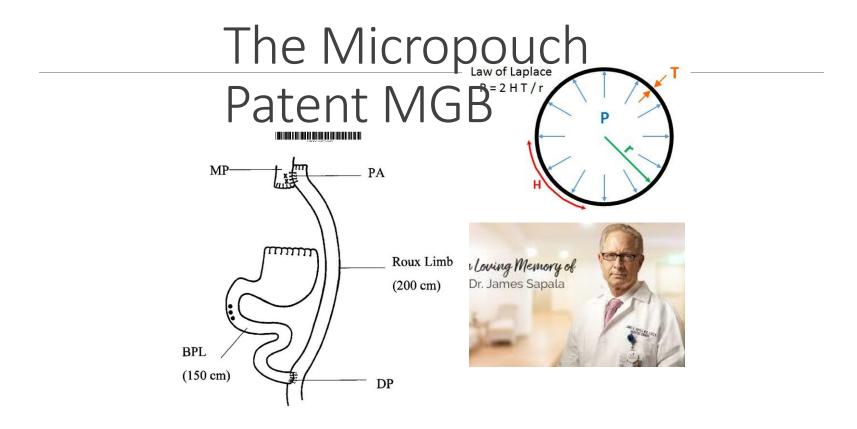
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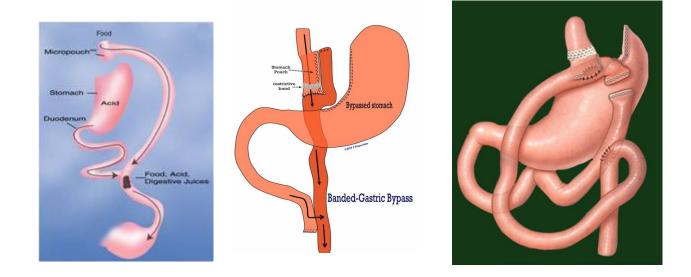


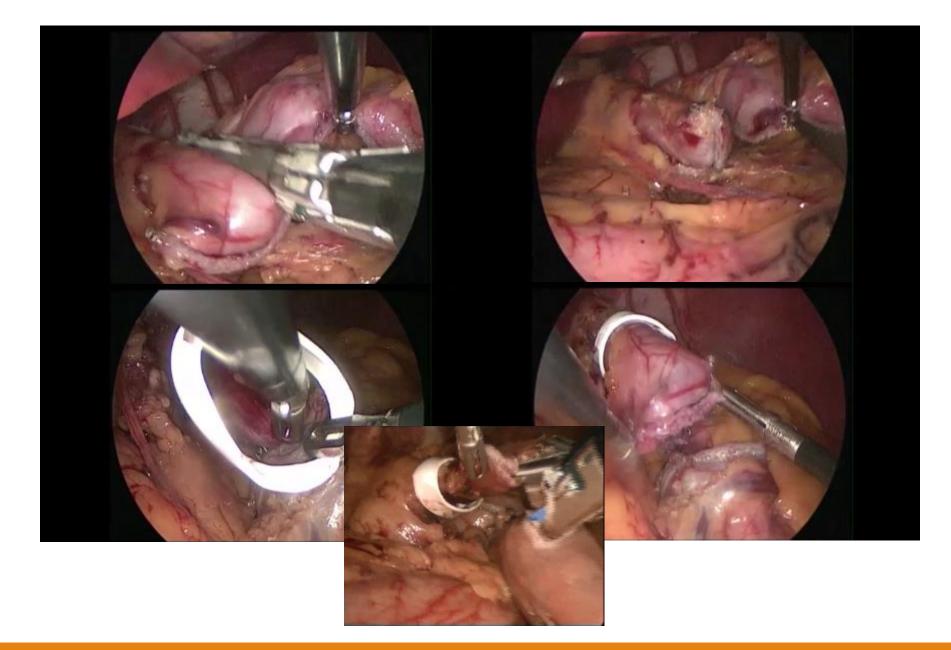




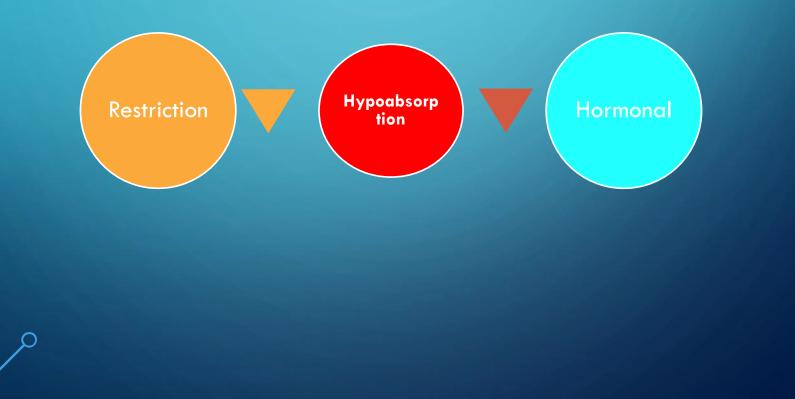


Rational behind long BP BMRYGB





PROBLEM: BARIATRIC SURGERY DESIGN ELEMENTS: CHANGES WITH TIME



How each procedure works

	Restriction	Hormonal	Hypo absorption
Sleeve Gastrectomy	++	<u>+</u>	-
OAGB	+	+++	++
RYGB	++	++	+
SADIs/DS	+	+++	++
Long BP BMRYGB	++	+++	++

How Procedures Fail: What happens Later

	Restriction	Hormonal	Hypoabsorption	Mal Adaptive behavior
Sleeve Gasterectomy	-	-	-	++
OAGB	-	++	+	++
RYGB	-	+	-	++
SADIs/DS	-	++	++	++
Long BP BMRYGB	++	++	++	++

Logic defying science is wrong

Gasrtic Pouches will not dilate
Sleeves and reflux no problem
OAGB no bile reflux, no anastomotic ulcer, no internal hernia

Our experience Since 1996, 4500+ bariatric procedures. • 1996-2001 Randomized 4 prócedure comparison LAGB, VBG, RYGB & BPD Gradually shifted to long BP banded micropouch RYGB (FOBI, SAPALA)

ROUX-EN-Y LIMB LENGTHS CHANGES OVER THE YEARS

- The Shorter the BP limb the better the Calcium absorption (Sugarman)
- Distal (Malabsorptive) RYGB (Brolin)
- The long BP limb gives better weight loss

THE LONG BP LIMB WITH RYGB

Sanjay Purkayastha²

<u>Int J Obes (Lond).</u> 2022; 46(11): 1983–1991. Published online 2022 Aug 4. doi: <u>10.1038/s41366-022-01186-0</u> PMCID: PMC9584808 PMID: <u>35927470</u>

Research concluded superior weight los

Length of biliopancreatic limb in Roux-en-Y gastric bypass and its impact on postoperative outcomes in metabolic and obesity surgery—systematic review and metaanalysis

Anna Kamocka,^{E1} Swathikan Chidambaram,² Simon Erridge,² Gauri Vithlani,² Alexander Dimitri Miras,^{1,3} and

 Randomized Controlled Trial
 Obes Surg. 2014 Oct;24(10):15!

 doi: 10.1007/s11695-014-1245-7.

loss, resolution of co-morbidities a

parameters

doi: 10.1007/s11695-014-1245-7.

Gastric bypass with long alimentar
pancreato-biliary limb--long-tern
Based on the outcomes of the

Based on the outcomes of the present study, there is no definitive evidence to suggest that alteration of the BPL affects the quantity of weight loss or resolution of co-existent metabolic comorbidities associated with obesity.

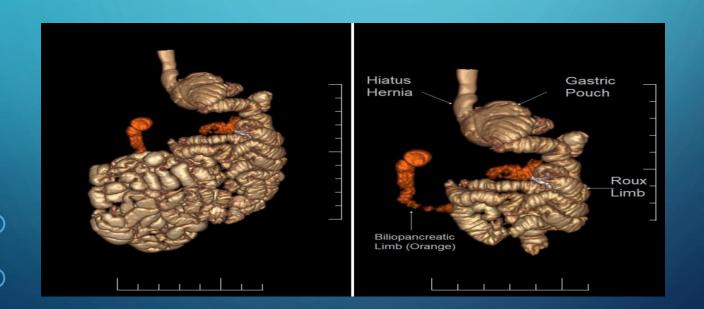
Bent Johnny Nergaard ¹¹, Björn Geir Leifsson, Jan Hedenbro, Hjörtur Gislason

Conclusions: Gastric bypass with a 2-m BP-limb gives better weight loss than gastric bypass with a 60-cm BP-limb and a 150-cm A-limb. Metabolic follow-up is of utmost importance, as most patients needed repeated adjustments of their supplementation.

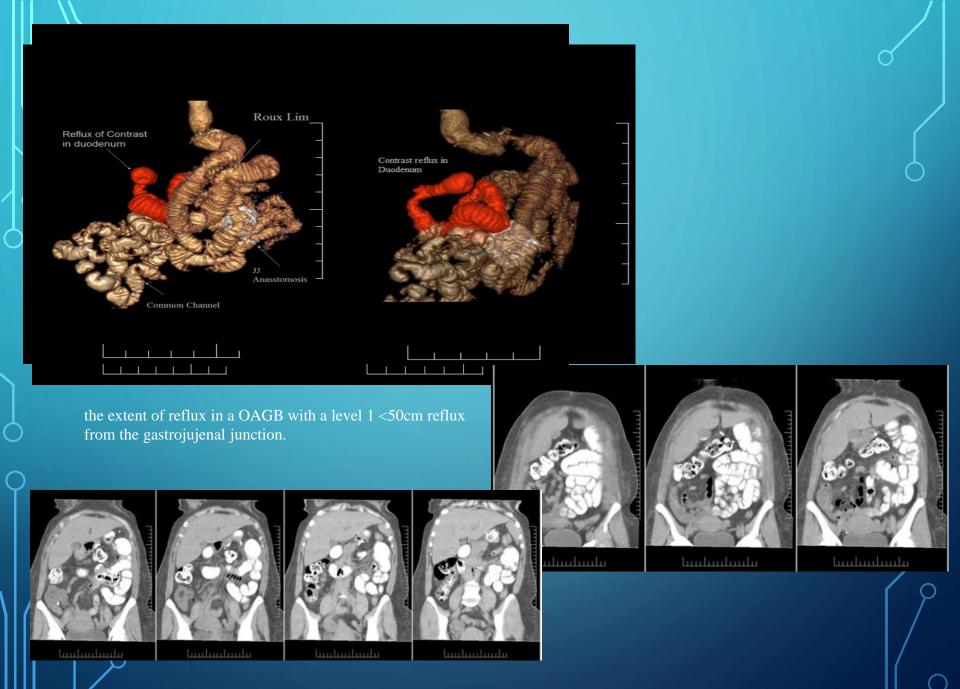
The Radiological Extent of Biliopancreatic Limb Reflux in One Anastomosis Gastric Bypass vs a Short Biliopancreatic Limb Standard Roux-en-Y Gastric Bypass vs Long Biliopancreatic Limb Roux-en-Y Gastric Bypass: Is Longer Biliopancreatic Limb Necessary?

Adel Mabrouk- Ahmed Osman- Tamer Othman- Amen Othman – Khaled Gawdat

Department of Bariatric Surgery, Ain Shams University Hospital, Cairo, Egypt Dar El Teb Radiology center, Cairo, Egypt



3d reconstruction with the BP limb colored in orange



show contrast reaching the duodenum and excluded stomach

- 300 post-op bariatric surgery patients had each group consisting of 100 patients who underwent one of the following procedures: standard roux en Y gastric bypass with a short biliopancreatic limb, one anastomosis gastric bypass or Roux en Y gastric bypass with a long biliopancreatic limb.
- 300 cases who were seen in the bariatric outpatient clinic Ain shams university hospitals in routine post-op follow up and were referred to radiology for a modified radiological technique of CT gastric volumetry

 Virtual gastroscopy with small bowel measurements, between the period of January 2019 and January 2020 at Dar el Teb radiology center in Cairo, Egypt. These were Consecutive patients that agreed to go through the radiological procedure

Variable	Total	S-RYGB	OAGB	L-RYGB	P value
Age (Years)	43	43 (21-65)	43 (18-69)	44 (19-70)	NS
Females	225	73	77	75	NS
Males	75	27	23	25	NS
Duration since procedure	5	8 (1-15)	4 (1-7)	4 (1-8)	NS
Table 1: Patient Demographics					

Table 1: Patient Demographics

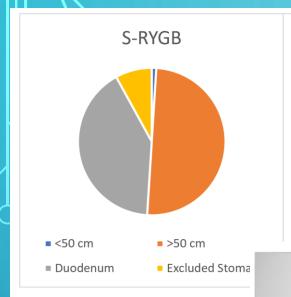
One anastomosis gastric bypass group had jejunal omega shaped loop ranging up to 200 cm (100-200 cm) from the duodo-jejunal junction .

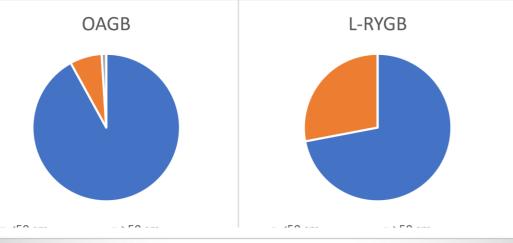
the S-RYGB had a biliopancreatic limb up to 65 cm (40-65 cm) in length in the or 200 cm (150-200 cm) in the L-RYGB.

Outcomes

Primary outcomes were measures of level of reflux by categorizing patients into 4 levels of reflux: Level 1: <50cm, Level 2: >50cm, Level 3: duodenum and finally level 4: excluded stomach.

Reflux	S-RYGB (n=100)	OAGB (n=100)	Р		
<50cm	Reflux	S-RYGB	L-RYGB	Р	
>50cm Duodenum	<50cm	(n=100) 1	(n=100) 72	0.02	
Excluded Stomach	>50cm	Reflux	OAGB (n=100)		Р
	Duodenum Excluded	<50cm	92	(<i>n=100</i>) 72	NS
0	Stomach	>50cm	7	28	NS
9		Duodenum	1	0	NS
		Excluded Stomach	0	0	NS





Reflux

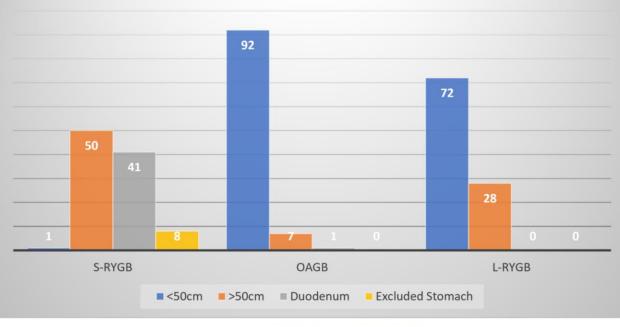


Figure 6: The level of reflux in each procedure

THE TROUBLE WITH MANY OF US IS THAT WE WOULD RATHER BE RUINED BY PRAISE, THAN SAVED BY CRITICISM

Things To Remember

Obesity is not a GIT problem.

Procedure anatomy changes with time, hormonal changes decrease with time and results change.

The first 18 months for every bariatric procedure is a Honey moon period, later results vary, your results at 5 and 10 years will be completely different than your initial results.

Ego is the enemy of Science.

CONCLUSION

- Not All gastric bypasses are the same
- S-RYGB was significantly associated with more reflux to the duodenum and excluded stomach compared to OAGB and L-RYGB
 - OAGB vs L-RYGB showed no significant difference to the degree of reflux
- Longer BPL in Bypass type procedures should be encouraged in all gastric bypass type procedures to decrease the duodenogastric reflux and maintain the duodenal exclusion mechanism of the bypass
- Celebrate your success and find humor in your failures. Don't take your self so seriously, no body else does



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