Optimal patient selection For RYGB & OAGB

Indications & Contraindications

Dr Nick Williams

[x] I have the following potential conflict(s) of interest to report:

- Receipt of honoraria or consultation fees: Faculty member for Ethicon and Medtronic

So how do we decide which is best?

? Evidence (primary & revisional)

? BSR data

? Opinion

2012

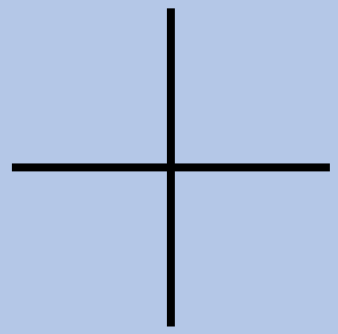
Comparative Study > Obes Surg. 2012 Dec;22(12):1827-34. doi: 10.1007/s11695-012-0726-9.

Laparoscopic Roux-en-Y vs. mini-gastric bypass for the treatment of morbid obesity: a 10-year experience

Wei-Jei Lee [1], Kong-Han Ser, Yi-Chih Lee, Jun-Juin Tsou, Shu-Chun Chen, Jung-Chien Chen

Comparison Retrospective
Non-Randomised

~1000MGB & ~500RYGB



Same QOL, revision rate & comorbidity improvement

MGB better - 5yr % EWL

↓Op Time

SYSTEMATIC REVIEW & META-ANALYSIS 2018 & 2019

Review > Int J Surg. 2018 Aug:56:7-14. doi: 10.1016/j.ijsu.2018.05.009. Epub 2018 May 16.

Outcomes of Mini vs Roux-en-Y gastric bypass: A meta-analysis and systematic review

Fu-Gang Wang [1], Wen-Mao Yan [1], Ming Yan [2], Mao-Min Song [3]

Systematic Review, 10 cohort studies 1 RCT

*small sample size, ?bias

MGB BETTER 1yr %EWL, 2yr %EWL, DM, ↓ op time

SAME HTN, Cx rate, GORD

Meta-Analysis > Obes Surg. 2019 Sep;29(9):2721-2730. doi: 10.1007/s11695-019-04005-0.

One Anastomosis Gastric Bypass Versus Roux-en-Y Gastric Bypass for Morbid Obesity: an Updated Meta-Analysis

Dimitrios E Magouliotis [1], Vasiliki S Tasiopoulou [2], George Tzovaras [3]

Meta-analysis 12,445 pts (11 studies)

OAGB BETTER:
shorter op time, 1yr, 2yr, 5yr %EWL, DM resolution

SAME Cx rate, HT, chol improvement

RYGB BETTER: less malnutrition

Randomized Controlled Trial > Langenbecks Arch Surg. 2021 Feb;406(1):171-179.
doi: 10.1007/s00423-020-01949-1. Epub 2020 Aug 6.

One anastomosis gastric bypass vs. Roux-en-Y gastric bypass: a 5-year follow-up prospective randomized trial

Luis Level [1], Alejandro Rojas [2], Silvia Piñango [2], Yubisay Avariano [2]

Affiliations + expand

PMID: 32761373 DOI: 10.1007/s00423-020-01949-1

Randomized Controlled Trial > Obes Surg. 2023 Jul;33(7):1966-1973.
doi: 10.1007/s11695-023-06631-1. Epub 2023 May 13.

Long Biliopancreatic Limb Roux-En-Y Gastric Bypass Versus One-Anastomosis Gastric Bypass: a Randomized Controlled Study

Mohamed AbdAlla Salman [1], Ahmed Abelsalam [2], George Abdelfady Nashed [2], Mohamed Yacoub [2], Ahmed Abdalla [2]

Randomized Controlled Trial > Obesity (Silver Spring). 2023 Dec;31(12):2909-2923.
doi: 10.1002/oby.23852.

Roux-en-Y versus one-anastomosis gastric bypass (RYSA study): weight loss, metabolic improvements, and nutrition at 1 year after surgery, a multicenter randomized controlled trial

RCT's
2020 - 2024

Randomized Controlled Trial > Medicina (Kaunas). 2024 Feb 1;60(2):256.
doi: 10.3390/medicina60020256.

One Anastomosis Gastric Bypass versus Roux-en-Y Gastric Bypass: A Randomized Prospective Trial

Servet Karagul [1], Serdar Senol [1], Oktay Karakose [1], Kevser Uzunoglu [1], Cuneyt Kayaalp [2]

Affiliations + expand

PMID: 38399543 PMCID: PMC10890302 DOI: 10.3390/medicina60020256

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

Maud Robert [1], Tigran Poghosyan [2], Delphine Maucort-Boulch [3], Alexandre Filippello [4], Robert Caiazzo [5], Adrien Sterkers [6], Lita Khamphommala [6], Fabian Reche [7], Vincent Malherbe [8], Adriana Torcivia [9], Toufic Saber [10], Dominique Delaunay [11], Carole Langlois-Jacques [3], Augustin Suffisseau [2], Sylvie Bin [12], Emmanuel Disse [13], François Pattou [5]

Obesity Surgery (2023) 33:1218–1227
https://doi.org/10.1007/s11695-023-06515-4

IFSO

ORIGINAL CONTRIBUTIONS

Check for updates

One Anastomosis Gastric Bypass (OAGB) vs Roux en Y Gastric Bypass (RYGB) for Remission of T2DM in Patients with Morbid Obesity: a Randomized Controlled Trial

Bhanu Singh[1] · Yellamraju Saikaustubh[1] · Vitish Singla[1] · Arun Kumar[1] · Vineet Ahuja[2] · Yashdeep Gupta[3] · Lokesh Kashyap[4] · Sandeep Aggarwal[1]

XXVII IFSO World Congress

IFSO MELBOURNE 2024

Melbourne 2024

Randomized Controlled Trial > Langenbecks Arch Surg. 2021 Feb;406(1):171-179.
doi: 10.1007/s00423-020-01949-1. Epub 2020 Aug 6.

One anastomosis gastric bypass vs. Roux-en-Y gastric bypass: a 5-year follow-up prospective randomized trial

Luis Level [1], Alejandro Rojas [2], Silvia Piñango [2], Yubisay Avariano [2]

Affiliations + expand

PMID: 32761373 DOI: 10.1007/s00423-020-01949-1

RCT 9 OAGB (200BP) 24 RYGB (150AL/100BPL)

SAME 5yr %EWL, comorbidity resolution

No Cx nor nutritional deficiencies

Randomized Controlled Trial > Obesity (Silver Spring). 2023 Dec;31(12):2909-2923.
doi: 10.1002/oby.23852.

Roux-en-Y versus one-anastomosis gastric bypass (RYSA study): weight loss, metabolic improvements, and nutrition at 1 year after surgery, a multicenter randomized controlled trial

Randomised Trial - Finland 2023
- 60 OAGB (210BP) 61 RYGB (130AL/80BPL)

SAME outcomes
- 6,12 mo wt loss, DM improvement, chol, nutrition

RYGB BETTER for HT & OAGB WORSE for Vit D

Randomized Controlled Trial > Obes Surg. 2023 Jul;33(7):1966-1973.
doi: 10.1007/s11695-023-06631-1. Epub 2023 May 13.

Long Biliopancreatic Limb Roux-En-Y Gastric Bypass Versus One-Anastomosis Gastric Bypass: a Randomized Controlled Study

Mohamed AbdAlla Salman [1], Ahmed Abelsalam [2], George Abdelfady Nashed [2], Mohamed Yacoub [2], Ahmed Abdalla [2]

RCT
30 OAGB (200BP) vs 30 RYGB (long limb: 75AL/150BPL)

SAME 6mo EBWL, DM, HT, OSA,

OAGB WORSE reflux symptoms, but controlled with PPI

Randomized Controlled Trial > Medicina (Kaunas). 2024 Feb 1;60(2):256.
doi: 10.3390/medicina60020256.

One Anastomosis Gastric Bypass versus Roux-en-Y Gastric Bypass: A Randomized Prospective Trial

Servet Karagul [1], Serdar Senol [1], Oktay Karakose [1], Kevser Uzunoglu [1], Cuneyt Kayaalp [2]

Affiliations + expand

PMID: 38399543 PMCID: PMC10890302 DOI: 10.3390/medicina60020256

RCT 20 OAGB (200BP) 18 RYGB (150AL/50BPL)

SAME 3yr %TWL , comorbidity resolution

4 denovo reflux in OAGB, none in RYGB

Obesity Surgery (2023) 33:1218–1227
https://doi.org/10.1007/s11695-023-06515-4

ORIGINAL CONTRIBUTIONS

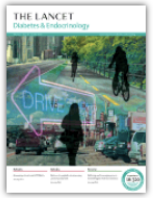
One Anastomosis Gastric Bypass (OAGB) vs Roux en Y Gastric Bypass (RYGB) for Remission of T2DM in Patients with Morbid Obesity: a Randomized Controlled Trial

Bhanu Singh[1] · Yellamraju Saikaustubh[1] · Vitish Singla[1] · Arun Kumar[1] · Vineet Ahuja[2] · Yashdeep Gupta[3] · Lokesh Kashyap[4] · Sandeep Aggarwal[1]

RCT 25 OAGB (200BP), 24 RYGB (130AL/70BPL)

SAME 4yr %EWL, remission T2DM

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



Maud Robert [1], Tigran Poghosyan [2], Delphine Maucort-Boulch [3], Alexandre Filippello [4], Robert Caiazzo [5], Adrien Sterkers [6], Lita Khamphommala [6], Fabian Reche [7], Vincent Malherbe [8], Adriana Torcivia [9], Toufic Saber [10], Dominique Delaunay [11], Carole Langlois-Jacques [3], Augustin Suffisseau [2], Sylvie Bin [12], Emmanuel Disse [13], François Pattou [5]

RCT 114 OAGB (200BP) v 118 RYGB (150AL/50BPL)

SAME 5yr WL, DM, nutrition

OAGB WORSE for reflux (41% vs 18%) at 5yrs

8% OAGB converted to RYGB

> Surg Endosc. 2022 Jan;36(1):498-503. doi: 10.1007/s00464-021-08309-0. Epub 2021 Feb 16.

One anastomosis gastric bypass versus Roux-en-Y gastric bypass: a 30-day follow-up review

Salvatore Docimo [1], Jie Yang [2], Xiaoyue Zhang [2], Aurora Pryor [3], Konstantinos Spaniolas [3]

Affiliations + expand

PMID: 33591446 DOI: 10.1007/s00464-021-08309-0

Short term follow-up propensity score matched retrospective study

OAGB did not have a significant risk improvement compared to RYGB for reoperation/readmission.

REVISIONAL

> Obes Surg. 2022 Mar;32(3):643-651. doi: 10.1007/s11695-021-05866-0. Epub 2022 Jan 14.

Outcome of Sleeve Gastrectomy Converted to Roux-en-Y Gastric Bypass and One-Anastomosis Gastric Bypass

D M Felsenreich [1], K Steinlechner [1], F B Langer [1], N Vock [1], J Eichelter [1], C Bichler [1], J Jedamzik [1], M Mairinger [1], I Kristo [1], G Prager [2 3]

Affiliations + expand

PMID: 35028871 PMCID: PMC8866292 DOI: 10.1007/s11695-021-05866-0

Sleeve revision study

Retrospective cross-sectional study

- SG → OAGB 13
- SG → RYGB 45

RYGB BETTER for GORD improvement

BOTH good for comorbidity, wt loss

Recommends RYGB over OAGB for patients who are experiencing GORD or BE after SG

Obesity Surgery (2021) 31:2927–2934
https://doi.org/10.1007/s11695-021-05334-9

IFSO

ORIGINAL CONTRIBUTIONS

Check for updates

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 [1] · Carmil Azran [3] · Gideon Sroka [4,5] · Ahmad Assalia [6] · Nahum Beglaibter [7] · Ram Elazary [8] · Shai Meron Eldar [9] · Orly Romano-Zelekha [10] · David Goitein [1,2]

396 pts

- SG → RYGB 119
- SG → OAGB 144

OAGB BETTER for WL

RYGB BETTER for GORD, nutritional deficiencies

Review > Langenbecks Arch Surg. 2023 Nov 18;408(1):440.
doi: 10.1007/s00423-023-03175-x.

One-anastomosis gastric bypass (OAGB) versus Roux-en-Y gastric bypass (RYGB) as revisional procedures after failed laparoscopic sleeve gastrectomy (LSG): systematic review and meta-analysis of comparative studies

Antonio Vitiello [1], Giovanna Berardi [2], Roberto Peltrini [3], Pietro Calabrese [3], Vincenzo Pilone [3]

Affiliations + expand

PMID: 37980292 PMCID: PMC10657303 DOI: 10.1007/s00423-023-03175-x

Meta-analysis 6 retrospective papers

A meta-analysis of conversions from SG to either OAGB or RYGB. Again demonstrating greater resolution of GORD and reduced denovo GORD with RYGB

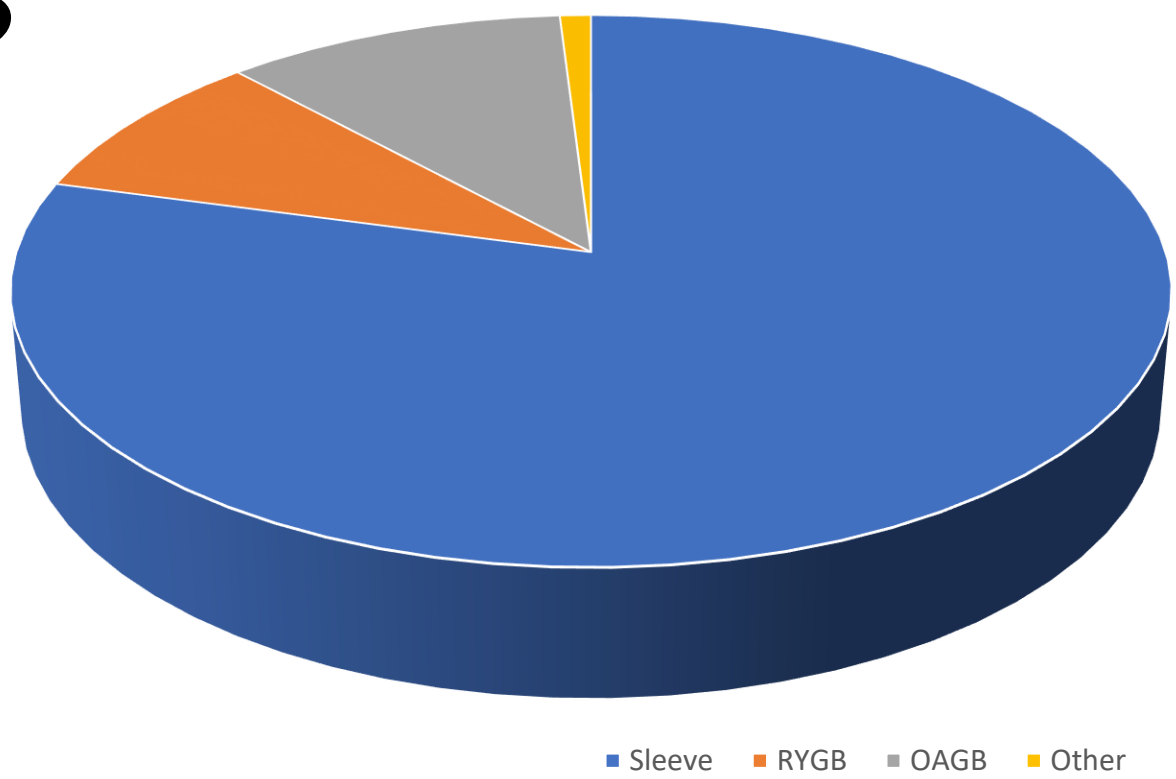
OAGB BETTER for WL

BSR Data - 2023

~20,000 bariatric cases in 2023

Safety
90d adverse outcomes
OAGB 3.8%
RYGB 4.8%

Efficacy
OAGB 4yr %TWL 34.6%
RYGB 4yr %TWL 31.2%



~16,000 primary procedures
80% sleeve
11% OAGB
9% RYGB
1% other

BSR Data - Revisions 2023

~4,000 revision procedures

31.7% RYGB
22.4% reversal band
16.7% OAGB
9% sleeve + Other

Safety
90d adverse outcomes
OAGB 5%
RYGB 9.4%


Reflux


Sweets Vs Volume

Vitamins


Geography

IBD/Reversal


Adhesions…Hernias…
Anticipated Surgical Difficulty

The Hairdresser Effect