# IMPERIAL



# OAGB or RYGB as Revisional Surgery for Failed Laparoscopic Adjustable Gastric Banding: A Comparison of Weight Loss Outcomes

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## Background

#### Laparoscopic adjustable gastric band (LAGB)

 Now rarely performed due to limited long-term weight loss and patients developing intolerance to the band which necessitates removal

#### **Revisional Procedures:**

- One Anastomosis Gastric Bypass (OAGB)
- Roux-en-Y Gastric Bypass (RYGB)



### **Objectives**

#### Primary Objective:

 Compare percentage total weight loss (%TWL) at 2 years between OAGB and RYGB after LSG

#### **Secondary Objectives:**

Assess 30 day post-operative complications

#### Methods

#### Study Design:

- Retrospective analysis of prospectively collected data (2015-2022)
- Conducted at a UK center.

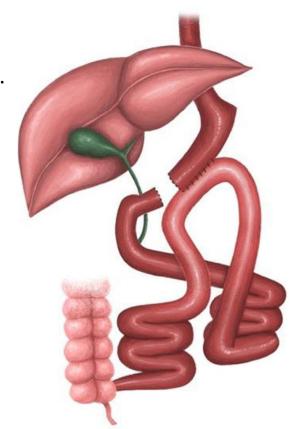
#### Participants:

90 patients who underwent revisional surgery post LAGB removal

## Surgical techniques

#### OAGB:

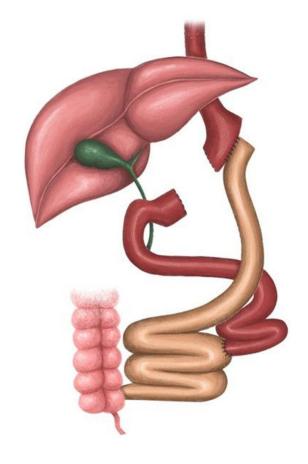
Sleeve divided at the incisura. Biliary length: 150-200cm.



#### RYGB:

Shorter gastric pouch Biliary limb: 50-70cm Roux limb: 100cm

Ante-colic Ante-gastric



Both procedures used a 30mm linear stapler for the gastrojejunostomy.

## Results

• 69 patients received OAGB, 21 received RYGB.

	OAGB	RYGB
Gender		
Male (%)	10 (14.7)	3 (13.6)
Female (%)	58 (85.3)	19 (86.4)
Age at Operation		
Mean	45.5	51.3
Range	25-69	22-70
Operation Stage		
1 (%)	29 (42.1)	6 (28.6)
2 (%)	40 (57.9)	15 (71.4)
Ethnic Origin		
Caucasian (%)	40 (58.8)	16 (72.7)
Asian (%)	16 (23.6)	2 (9.1)
Afro-Caribbean (%)	5 (7.4)	0
African (%)	4 (5.9)	0
Other/Unknown (%)	3 (4.4)	4 (18.2)
ASA Grade		
II (%)	41 (60.3)	15 (68.2)
III (%)	25 (36.8)	4 (18.2)
Unknown (%)	2 (2.9)	3 (13.6)

# Primary Outcome Weight Loss after revisional surgery

The OAGB group had a higher pre-conversion BMI (44.4 vs. 38.6).

Both groups experienced significant BMI reductions at 2 years (33.7 in OAGB, 31.1 in RYGB).

This translates to mean %TWL of 30.7% vs. 23.8% (p = 0.03), favouring OAGB.

Post-operative complication rates were similar between groups.

#### **OAGB**

	Pre-Op	Post-Op		
		6 months	1 year	2 years
Mean Weight (kg)	125.4	102.9	96.5	92.8
Mean % TWL		22.6	30.7	30.7
Mean BMI	44.4			33.7

#### **RYGB**

	Pre-Op	Post-Op		
		6 months	1 year	2 years
Mean Weight (kg)	107.5	92.3	87.8	81.1
Mean % TWL		18.3	23.2	23.8
Mean BMI	38.6			31.1

#### **Discussion**

#### Weight Loss Outcomes:

- OAGB may offer greater %TWL at 2 years following failed LAGB compared to RYGB
- Similar post-operative complication rates between the two groups.
- Consideration of higher pre-conversion BMI in OAGB group and indication for surgery
- Need for further long-term studies to assess:
  - Sustained weight loss.
  - Impact on quality of life.
  - Cost-effectiveness.
  - Patient satisfaction.
  - Long term complication / side effect profile

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# Thank you

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OAGB or RYGB as Revisional Surgery for Failed Laparoscopic Adjustable Gastric Banding: A Comparison of Weight Loss Outcomes 06/09/2024