

# Safety and Effectiveness of Conversion from non-responding Sleeve Gastrectomy to Banded Roux-en-Y Gastric Bypass

FLATTERY

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# Conflicts of interest statement

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I have no potential conflict of interest to report

# Introduction

- Sleeve gastrectomy (SG): 20 – 30% require conversional surgery
  - Weight recurrence
  - Insufficient weight loss (primary non-responders)
  - Functional problems (e.g. stenosis, reflux)
- Current literature: no studies which use banding (MiniMizer) of the pouch, i.e. conversion from SG to (banded) RYGB

Aim: to evaluate the safety and effectiveness of conversion from SG to banded RYGB.



# Methods



All SG to Banded RYGB conversions Jan 2016 – Dec 2022

- 1-year follow-up outcome measures
  - Total weight loss (%TWL)
  - Band (MiniMizer) related complications
  - Comorbidity resolution

# Results: study population



N = 50 patients



N = 44 (88%)

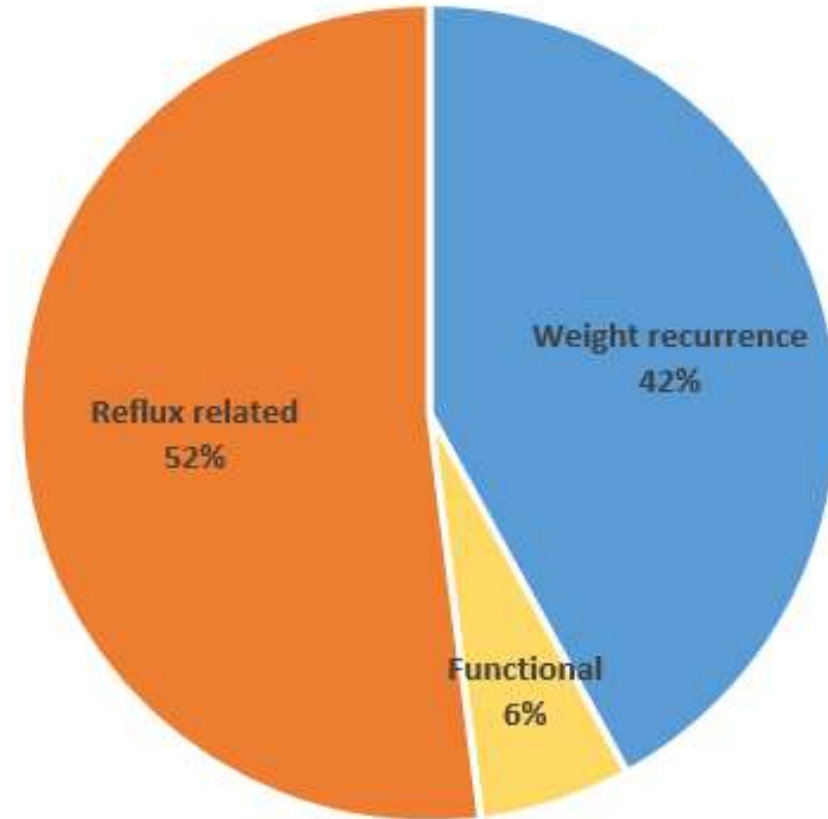


45 year (36 – 54)



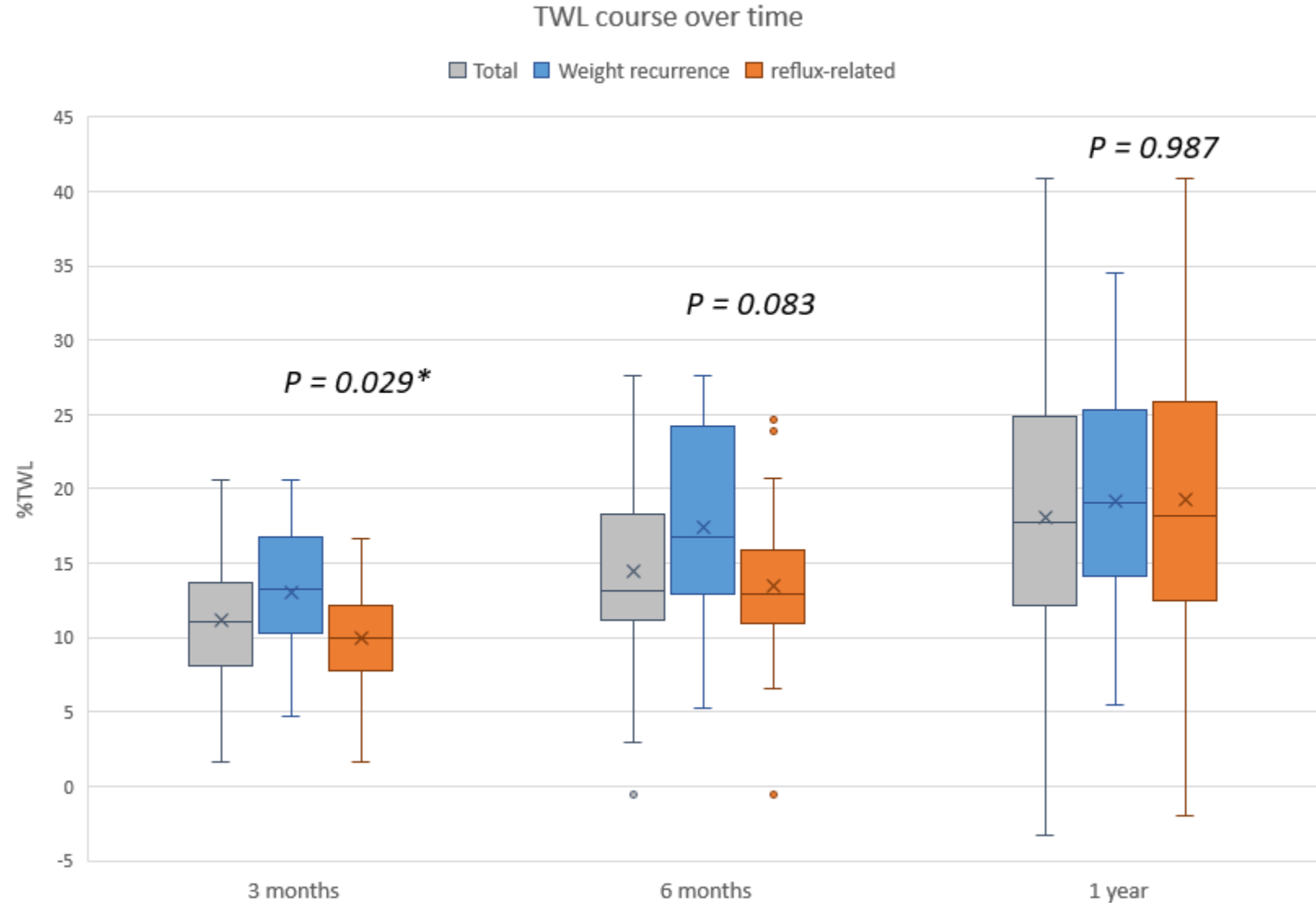
37.6 kg/m<sup>2</sup> (33.4 – 40.8)

Revision indication



# Results: weight

- %TWL after 1 year
  - After conversion: 18%
  - Cumulative: 32%
  - Weight recurrence: 19.2%
  - Reflux-related: 19.2%



# Results: comorbidities

*Table. Comorbidities at time of screening for conversion and the evolution after 1 year*

Comorbidity	Prevalence	Evolution after 1 year*		
		Unchanged	Improved	Remission
Hypertension	9 (18)	3 (33.3)	1 (1.11)	3 (3.33)
Diabetes	1 (2)	-	-	1 (100)
OSAS	4 (8)	-	3 (75)	1 (25)
GERD	18 (36)	1 (5.6)	9 (50)	6 (33.3)
Dyslipidemia	3 (6)	1 (50)	1 (50)	-

\* 5 patients have not yet achieved 1 year follow-up

# Results: complications

Short-term complication rate = 16%

- 8 patients with 10 complications
  - $4 \leq$  CD2
  - $6 \geq$  CD3a

Variables	Conversion (N = 50)
MiniMizer in situ	48 (96)
MiniMizer related complications	
<i>Band slippage</i>	2 (4)
<i>Band erosion</i>	0
<i>Small bowel obstruction</i>	0
Patients with short-term complications	8 (16)
Patients with short-term complications, Clavien-Dindo $\geq$ 3a	6 (12)
Short-term ( $\leq$ 30 days) complications according to Clavien Dindo	
1	1 (2)
2	3 (6)
3a	2 (4)
3b	4 (8)
Short-term complication related hospital admission	
<i>No admission</i>	1 (2)
<i>Prolonged admission</i>	2 (4)
<i>Readmission</i>	7 (14)



# Discussion & Conclusion

- Cumulative %TWL of 32% from sleeve is comparable to primary banded RYGB<sup>7</sup>
- High improvement rate of comorbidities as 71.4% improved or achieved remission
- Complication rate of 16% is comparable to the literature<sup>8</sup>

*Banded Roux-en-Y gastric bypass is a safe and effective conversion method after a non-responding Sleeve Gastrectomy*

# Questions?

Research team: Kayleigh van Dam, Marijn Jense, Evelien de Witte, Sofie Fransen, Jan Willem Greve, Evert-Jan Boerma



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# Literature

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<i>Readmission</i>	7 (14)

Internal herniation	1
Stenosis	3
Anastomotic leakage	3
Intra-abdominal abscess	1
Anastomotic bleeding	1
Wound infection	1