

Evaluation of a long biliopancreatic limb in primary and revisional RYGB: 10 year RCT results

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Disclosure

Speaker/consultant/funded research:

- Johnson & Johnson (Ethicon Endosurgery)
- Fit for Me
- Bariatric Solutions

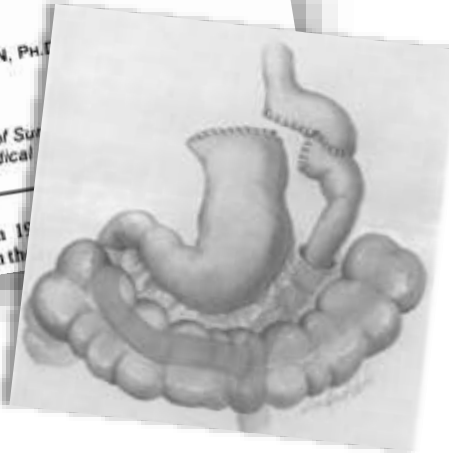
A Prospective Comparison of Gastric and Jejunoleal Bypass Procedures for Morbid Obesity

WARD O. GRIFFEN, JR., M.D., PH.D., V. LEROY YOUNG, M.D., CRAIG C. STEVENSON, PH.D.
From the Department of Surgery, University of Iowa, Iowa City, Iowa

A randomized prospective evaluation of the gastric and jejunoleal bypass procedures for morbid obesity was performed. The gastric bypass was performed predominantly as a 90% gastric exclusion with a Roux-en-Y reconstitution. The jejunoleal bypass was an end-to-end anastomosis between 30 cm of jejunum and 25 cm of terminal ileum, the bypassed segment of small bowel being decompressed by an end-to-side ileocolic

continued use. In 1976, they published their results on the

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1976

1966



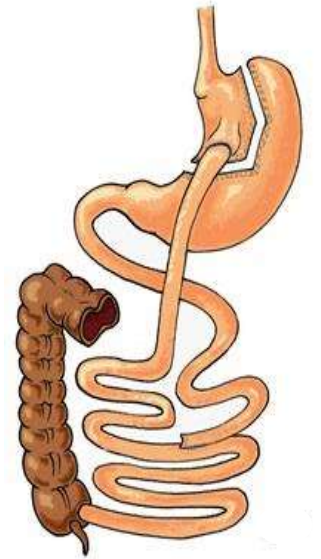
Gastric Bypass

EDWARD E. MASON, M.D., CHIKASHI ITO, * M.D.

From the Department of Surgery, University of Iowa, Iowa City, Iowa



2023

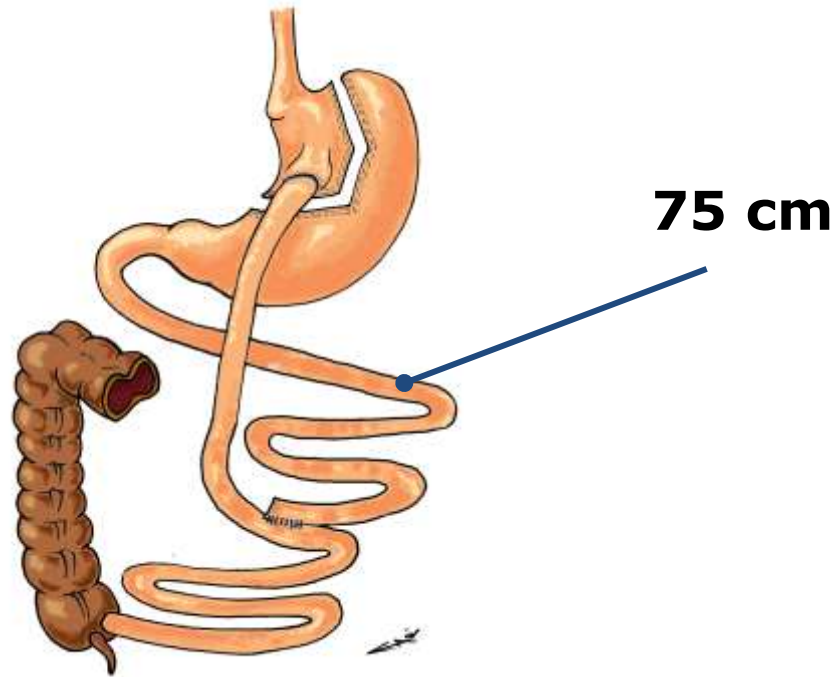


Kliniek tegen overgewicht

vitalys

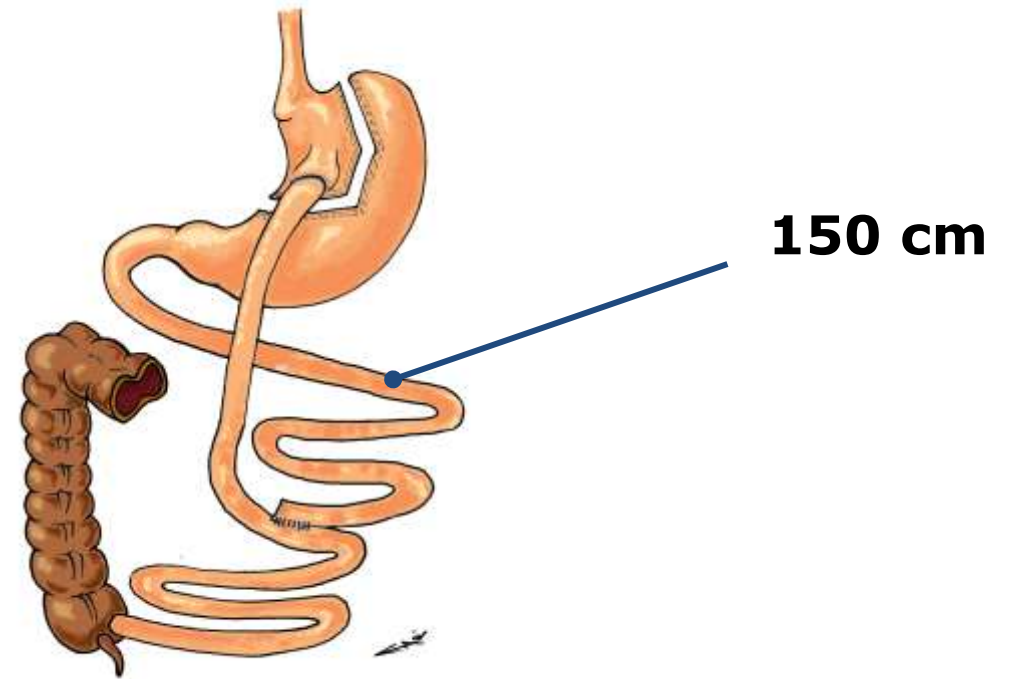
NEDERLAND

ELEGANCE studies



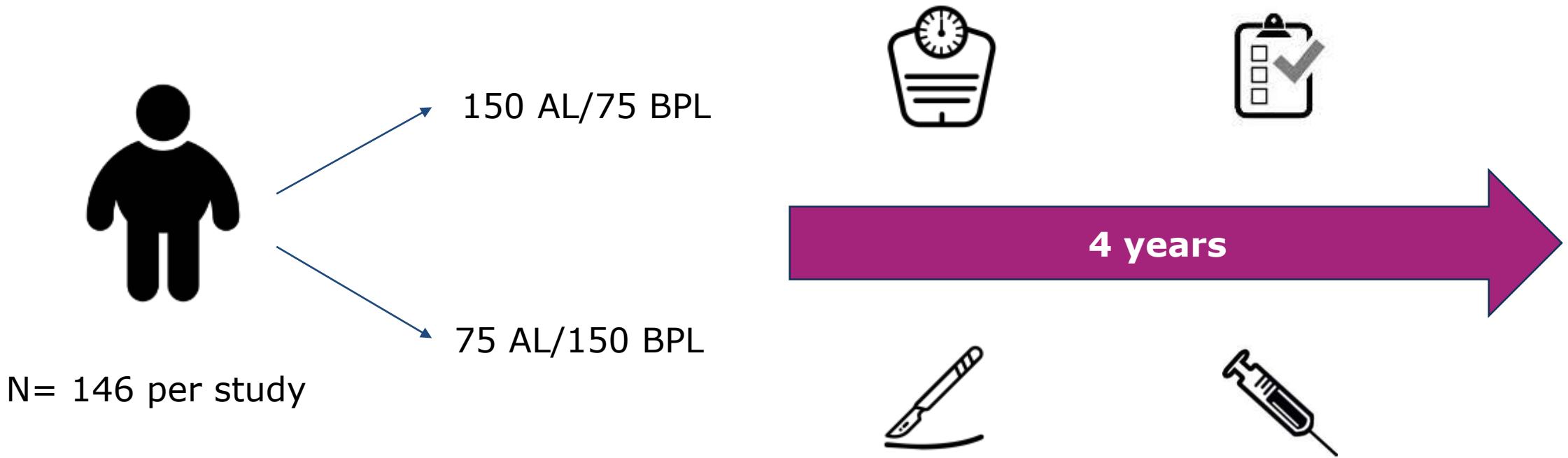
'Standard'
Gastric bypass

VS



Long BPL
Gastric bypass

Elegance – RCTs primary & revisional



Primary

A Longer Biliopancreatic Limb in Roux-en-Y Gastric Bypass Improves Weight Loss in the First Years After Surgery: Results of a Randomized Controlled Trial

Jens Homan¹ · Abel Boerboom¹ · Edo Aarts¹ · Kemal Dogan¹ · Cees van Laarhoven² · Ignace Janssen¹ · Frits Berends¹

Surgery for Obesity and Related Diseases 15 (2019) 60–72

Original article

A long biliopancreatic and short alimentary limb results in more weight loss in revisional RYGB surgery. Outcomes of the randomized controlled ELEGANCE REDO trial

Revisional

Abel Boerboom, M.D.* , Jens Homan, M.D., Edo Aarts, M.D., Ph.D., Theo Aufenacker, M.D., Ph.D., Ignace Janssen, M.D., Frits Berends, M.D., Ph.D.

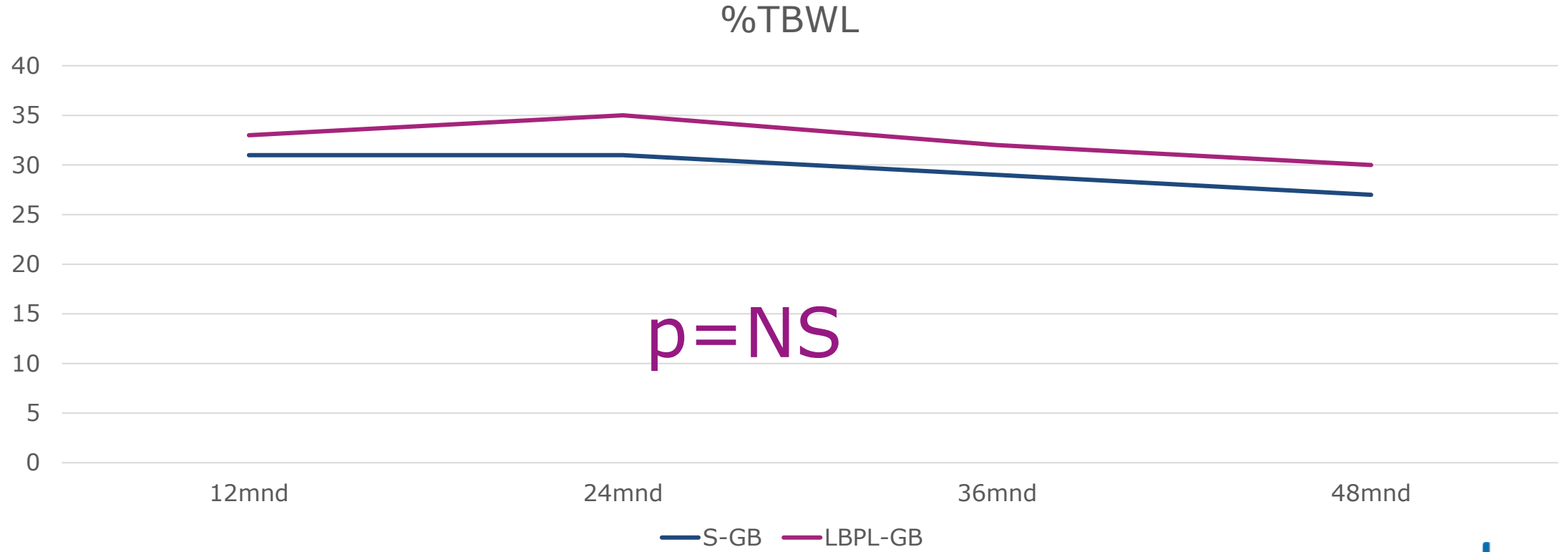
Department of Surgery, Rijnstate Hospital, Arnhem, the Netherlands

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ELEGANCE – Primary

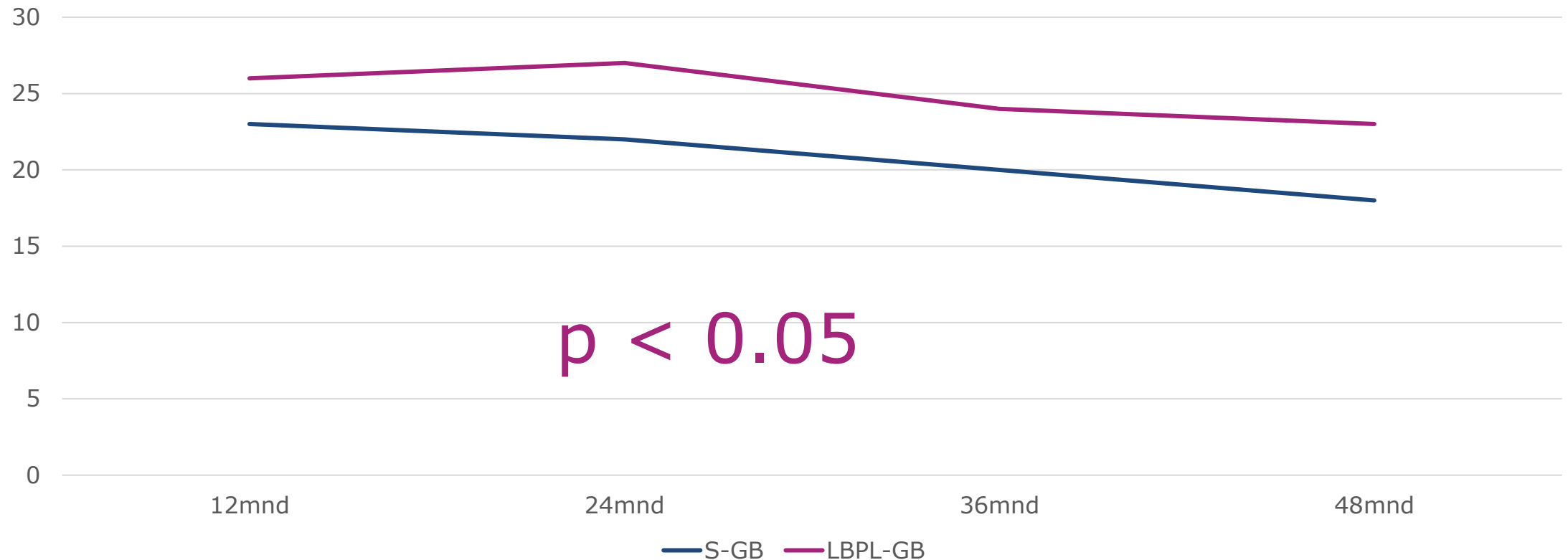
Weight loss

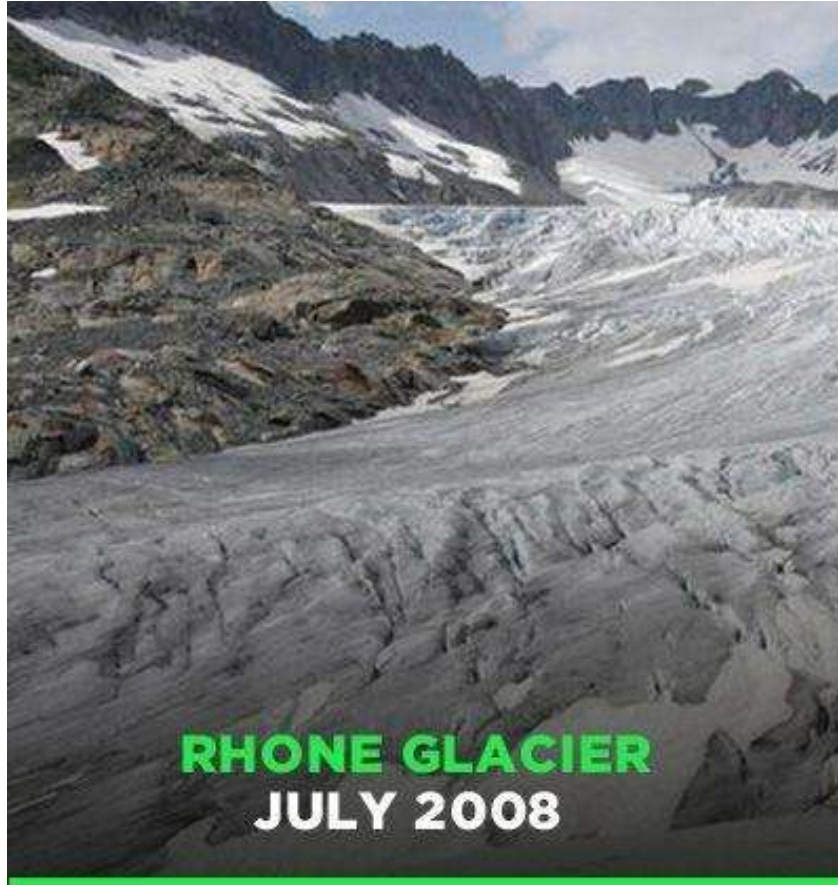
After 4 yrs: higher EWL, but not TBWL



ELEGANCE – Revisional

Weight loss





10 years
later

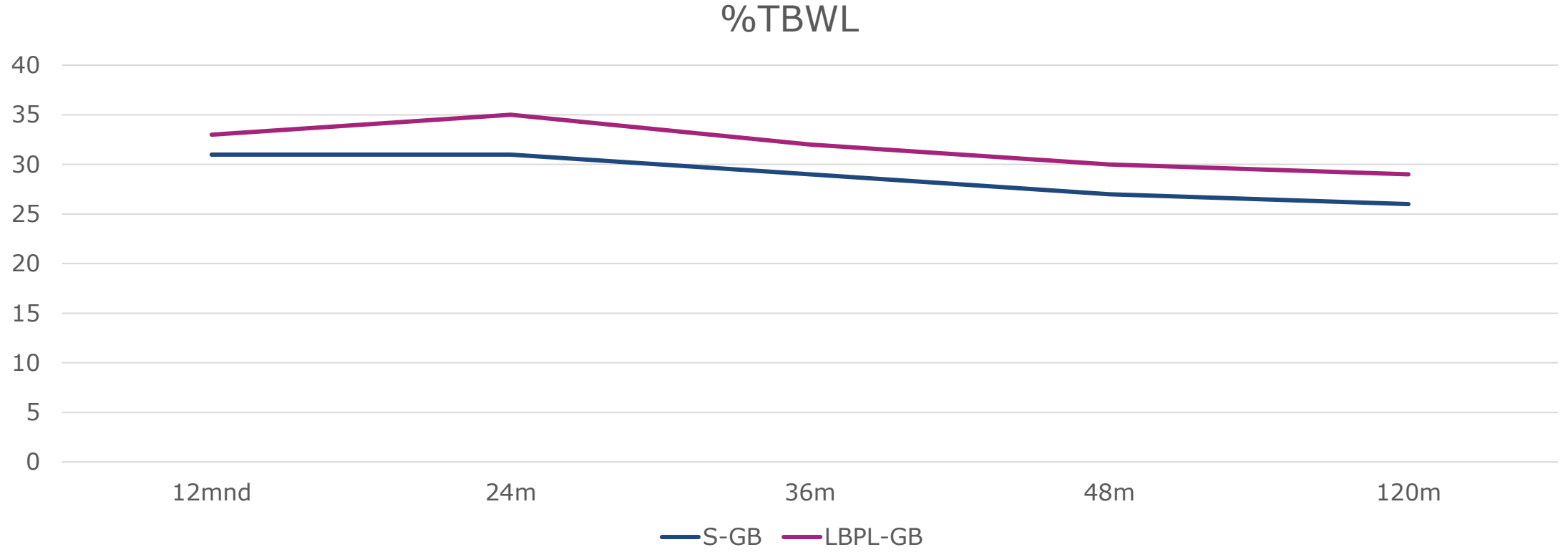
Results

- After 10 years: 70% of participants responded
- Weight loss (TBWL):

Primary	S-GB	LBPL-GB	
	26 %	29.3%	p=0.154
Revisional	20.8%	24.8%	p=0.136

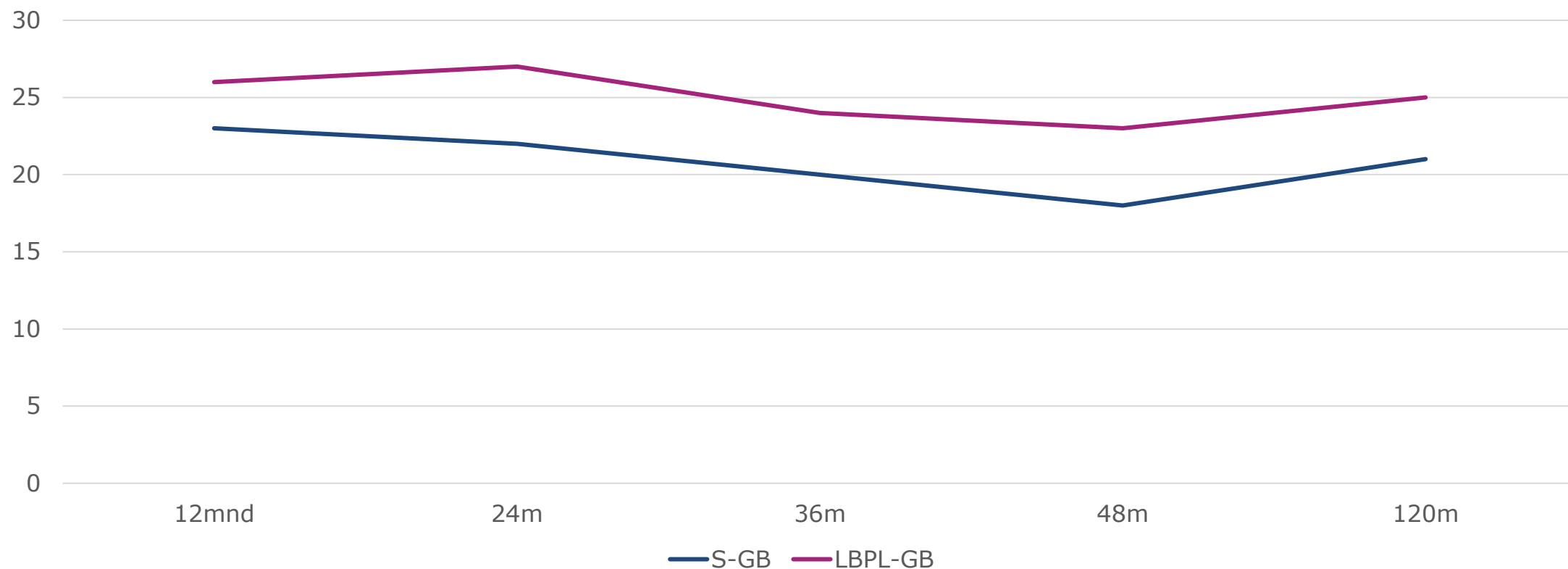
ELEGANCE – Primary

Weight loss



ELEGANCE – Revisional

Weight loss



ELEGANCE – primary

comorbidity remission



		S-GB	LBPL-GB	p-value
Type 2 diabetes (%)				
	10 years	4 (10)	3 (8)	1.000
Hypertension (%)				
	10 years	5 (12)	11 (28)	0.096
Dyslipidemia (%)				
	10 years	4 (10)	5 (13)	0.731

ELEGANCE – revisional

comorbidity remission



		S-GB	LBPL-GB	p-value
Type 2 diabetes (%)				
	10 years	6 (14)	2 (5)	0.275
Hypertension (%)				
	10 years	13 (30)	14 (36)	0.640
Dyslipidemia (%)				
	10 years	7 (16)	2 (5)	0.160

Complications – 10 years

	Primary RYGB			REDO RYGB		
	S-GB	LBP-GB	p value	S-GB	LBP-GB	p value
Total number of patients (%)	21 (51)	20 (49)	0.326	15 (31)	18 (37)	0.334
Reoperation	21	18		15	20	
Cholecystectomy	10	10		6	7	
Internal herniation	5	2		3	3	
Incisional hernia	1	3		2	3	
Redo Surgery	2	-		0	3	
Other	5	4		4	5	
Gastric ulcer	2	3		-	1	
Unexplained abdominal pain	3	2		2	1	
Other	-	2		-	1	

ELEGANCE – primary & revisional

Quality of life

- **BAROS**

- **SF-36**

S-GB

'GOOD'



LBPL-GB

'GOOD'



Conclusion

10 years after gastric bypass

BPL 75 cm and 150 cm:

- Good weight loss results
- Similar resolution comorbidities, complication rates and QOL

- Trend for higher weight loss after LBP-GB
- More pronounced after revisional surgery



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