



XXIX IFSO World Congress

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LONG TERM SURVIVAL ADVANTAGE OF ROUX- EN-Y GASTRIC BYPASS OVER SLEEVE GASTRECTOMY : A 15 YEAR COHORT ANALYSIS

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CHU Lille

TORONTO2026

The Future of Obesity Management:
From Weight Loss to Health Gain



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Disclosure Slide

No disclosure



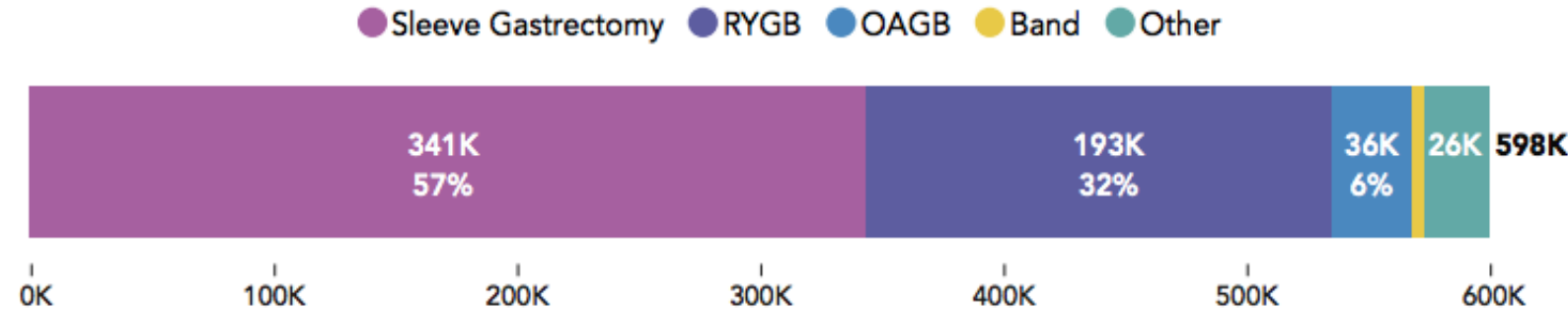
Introduction



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Figure 3. Total procedures by operative type, n=598,137 (2023)



Introduction

- **Weight loss : RYGB > SG**
- **Metabolic effect : RYGB > SG**
 - Remission of type 2 diabetes mellitus (T2DM)
 - Reduction in certain cardiovascular risk factors
- **Late surgical revision : SG > RYGB**
 - GERD
 - Weight regain.





Effects of Bariatric Surgery on Mortality in Swedish Obese Subjects

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- Better survival after MBS vs. lifestyle intervention
- Fundamentals of bariatric surgery
- Short term mortality : **RYGB > SG**

Howard, JAMA Surgery 2021

Sakurai. Surg Obes Relat Dis. 2025



LONG TERM SURVIVAL : SG vs RYGB ?



Study design

- Retrospective analysis of the "Lille Bariatric cohort" (monocentric)
- Adult individuals
- Primary RYGB or SG
- From 2001 to 2024
- Endpoint = all cause mortality at 15 years
- Intent to treat

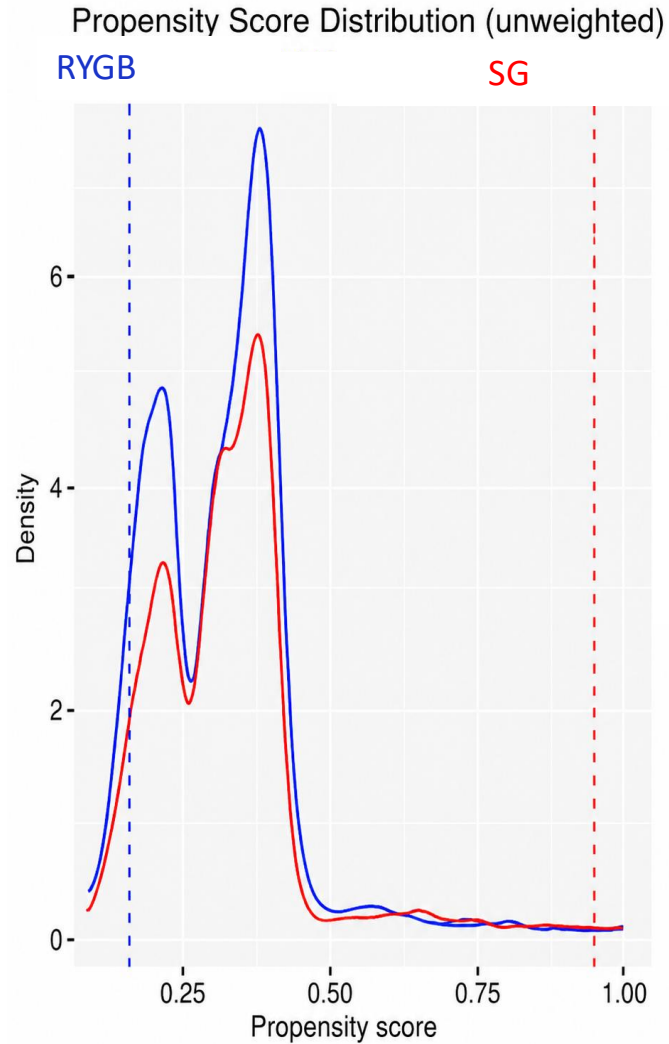


Population – baseline characteristics

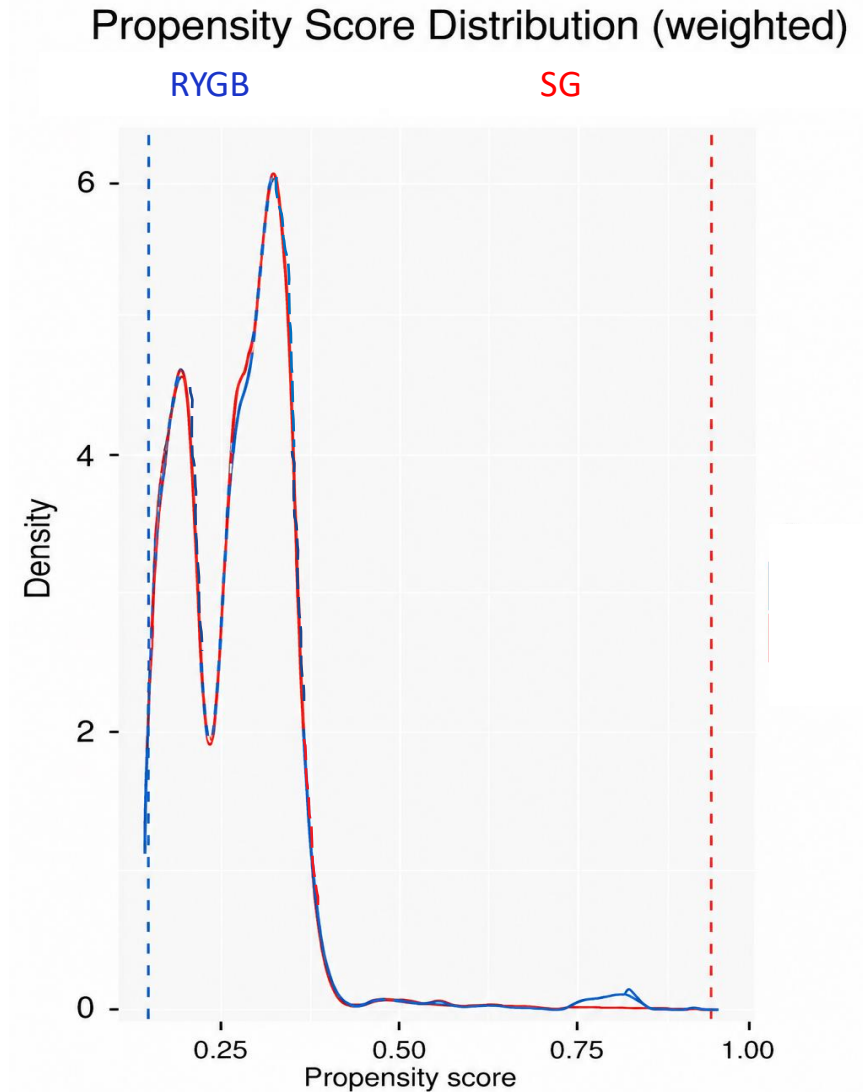
N = 1770		RYGB : 1309 (74%)	SG : 461 (26%)	SMD
Age (years)		<u>42,5</u> (+/-11,3)	<u>40,8</u> (+/-12,8)	0,145
Sexe	Female	949 (72,5%)	333 (72,2%)	0,06
	Male	360 (27,5%)	128 (27,8%)	0,06
BMI (Kg/m ²)		47,2 (+/-7,5)	47,46 (+/-9,2)	0,035
T2D		<u>539</u> (41,2%)	<u>113</u> (24,5%)	0,361
Smoking		134 (10,2)	45 (9,8)	0,016



Inverse probability weighting (IPW)



IPW

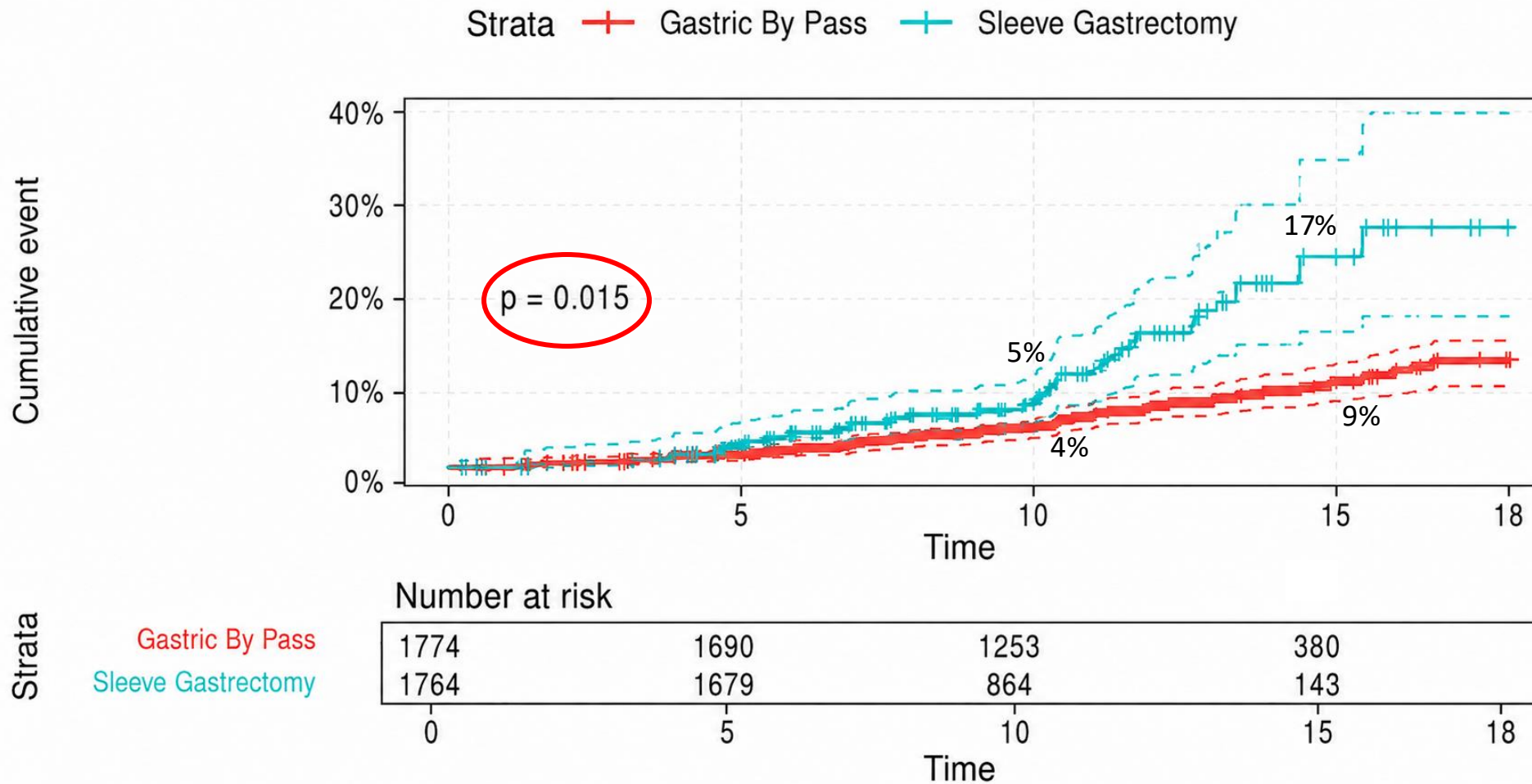


Pseudo-population - IPW

N = 3538,8		RYGB : 1774,3 (50%)	SG : 1764,5 (50%)	SMD
Age (years)		42,2 (+/-11,3)	42,5 (+/-12,9)	0,031
Sexe	Female	1289,2 (72,7%)	1270,7 (72%)	0,014
	Male	485,1 (27,3%)	493,8 (28%)	0,014
BMI (Kg/m ²)		47,4 (+/-8,2)	47,5 (+/-8,1)	0,010
T2D		654,4 (36,9%)	654 (36,9%)	<0,001
Smoking		176,1 (9,9)	179,8 (10,2)	0,009



Adjusted survival analysis



Clinical significance at 15 years

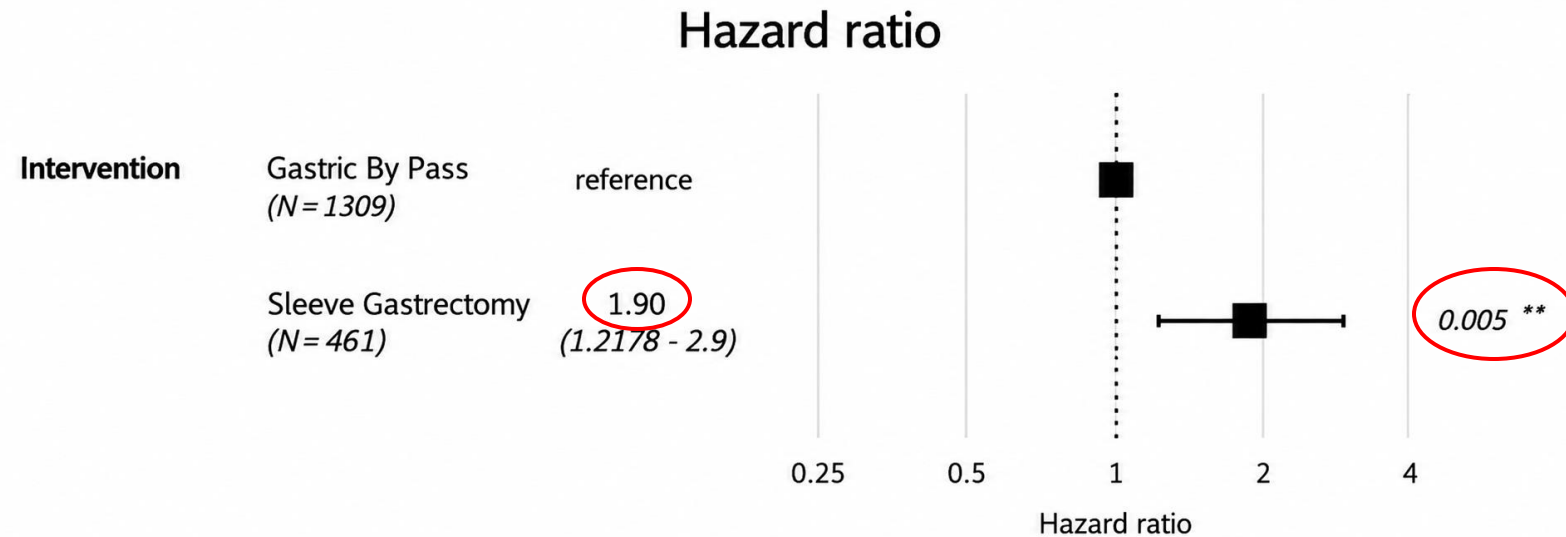
- Absolute risk reduction: **8% in favor of RYGB**
- RMST (unadjusted) = 0,272 years (0,532 – 0,012) in favor of RYGB
 - = 3,3 months (6,4 – 0,14)
- Every **13 patients** undergoing **RYGB** rather than **SG** is associated with **1 fewer deaths at 15 years.**



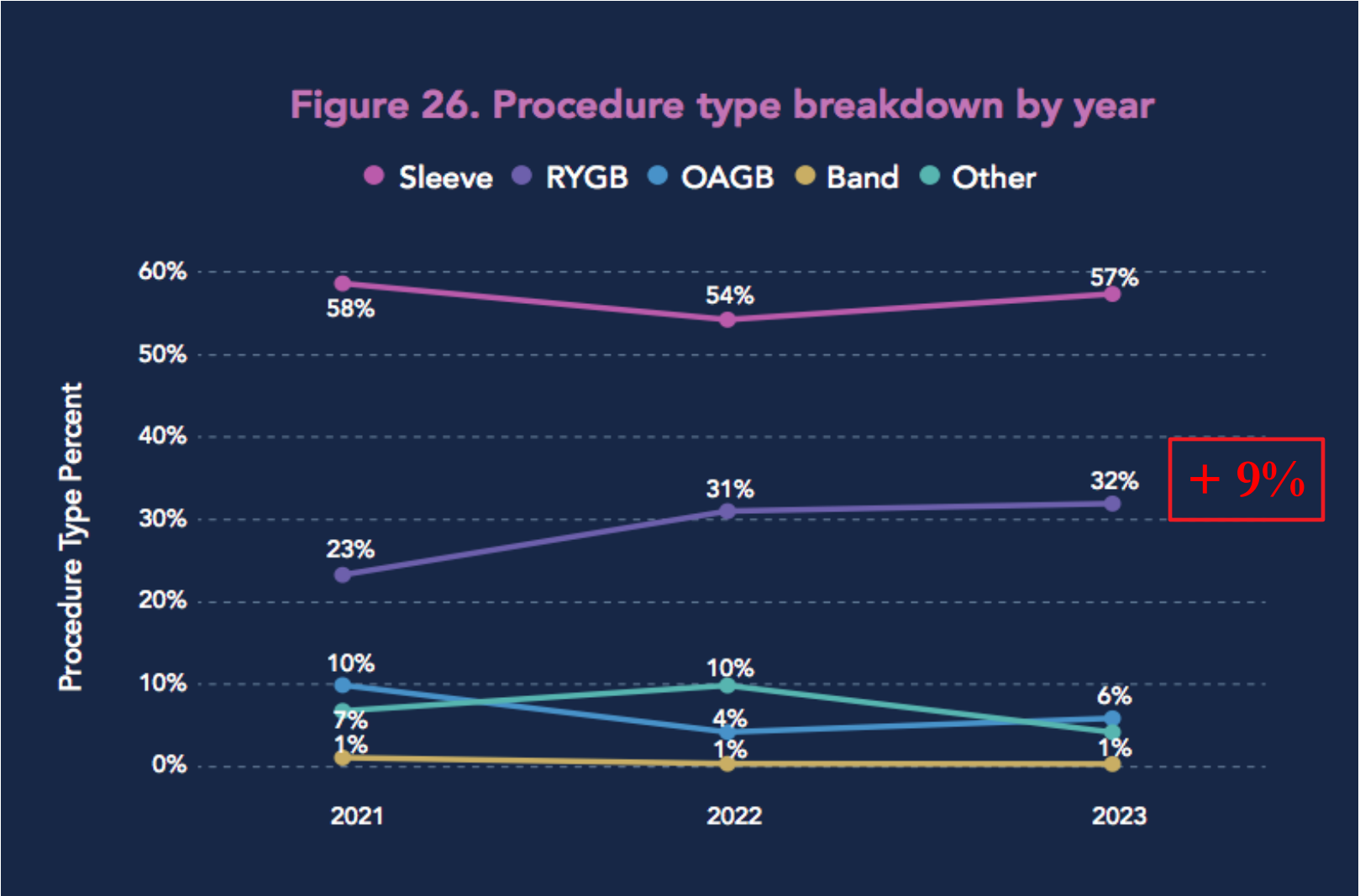
Multivariate analysis – Cox regression model

- Adjustment for confounding variables :

- BMI
- TD2
- Smoking
- Age
- Sexe



Current trends



Conclusion

- Our results support **better long term survival after RYGB** than **SG** (15 years)
- External validation pending (PMSI)
- Not the end of sleeve
 - QoL
 - BMI > 50
 - Individualized decision



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