XXVIII IFSO World Congress

9-12 September 2025 | Santiago, Chile

SLEEVE GASTRECTOMY WITH JEJUNAL BYPASS

Dr. Matías Sepúlveda Hales

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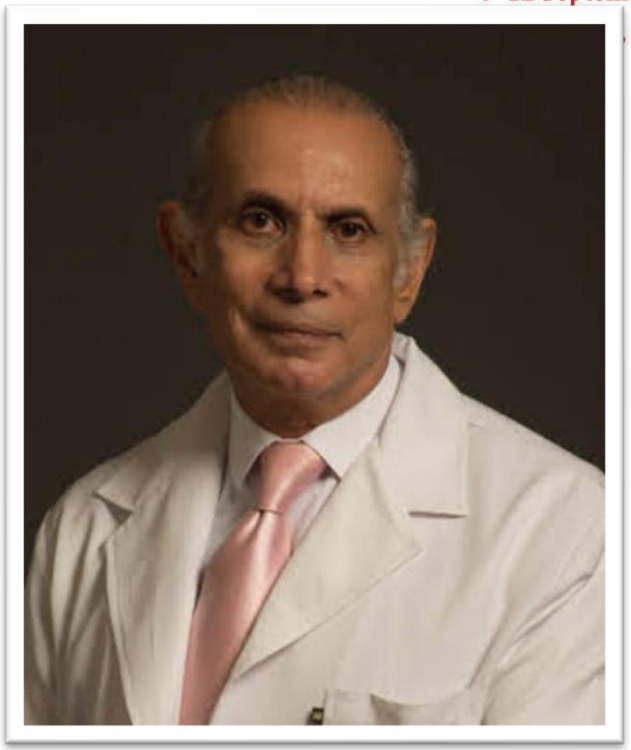
Sleeve Gastrectomy with Jejunal Bypass

2002

Dr. Munir Alamo Develops a new bariatric and metabolic surgical technique

1. Reduced gastric storage capacity (SLEEVE)
2. Exclusion of jejunum → exposure of the intestine to partially digested food → production of incretins



2003

Scientific and Ethic's comitee approval (Diego Portales University)

First case

Alamo M et al. Obesity Surgery 2006, 16; 9:1263-6

ELSEVIER

Surgery for Obesity and Related Diseases ▮ (2015) 00–00

SURGERY FOR OBESITY AND RELATED DISEASES

Original article

Detailed characterization of incretin cell distribution along the human small intestine

Tiago P. Guedes, M.D.[a], Sofia Martins, M.Sc.[a], Madalena Costa, B.Sc.[a], Sofia S. Pereira, M.Sc.[a], Tiago Morais, M.Sc.[a], Agostinho Santos, M.D., Ph.D[b], Mário Nora, M.D.[c], Mariana P. Monteiro, M.D., Ph.D.[a,*]

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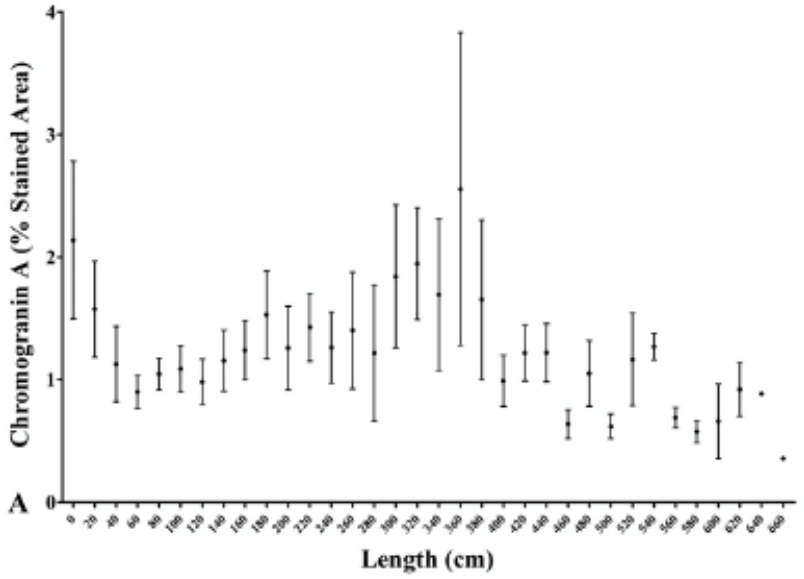
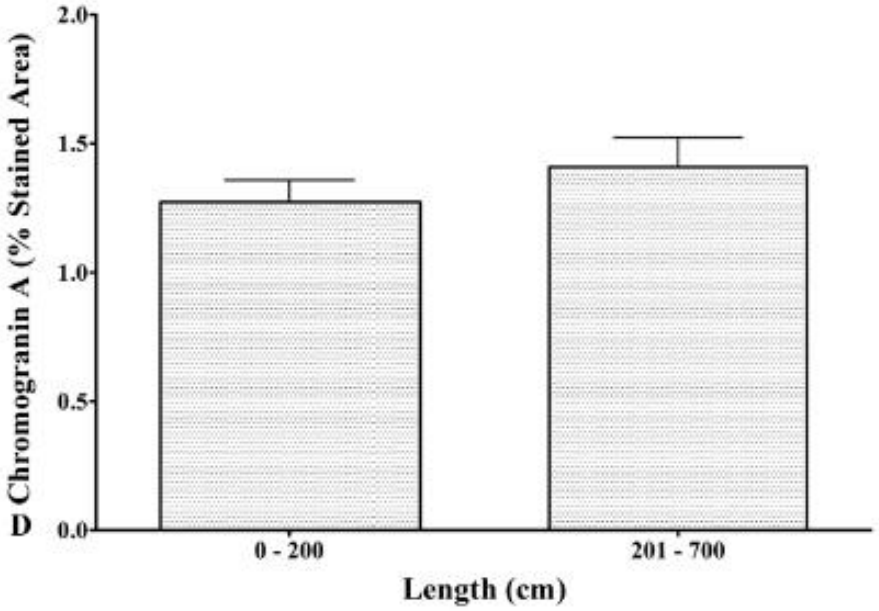
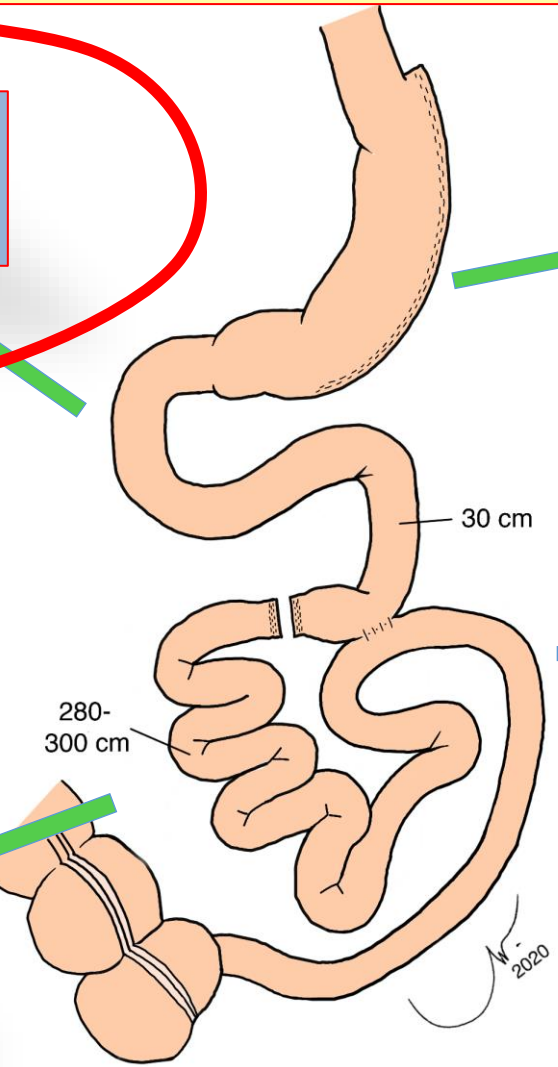
Received December 10, 2014; accepted February 12, 2015





Sleeve gastrectomy with jejunal bypass

Transit through duodenum:
Fewer nutritional problems
Endoscopic access to ampoule



Restriction
Ghrelin suppression

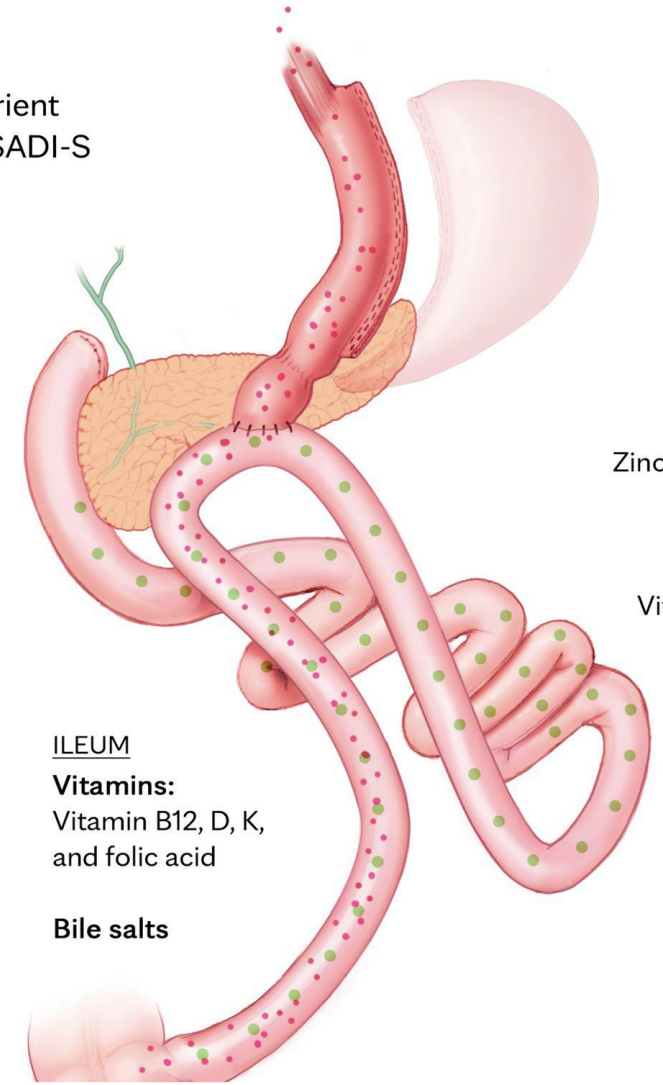
- jejunum-ileal anastomosis
  280-300 cm
- 1 bowel anastomosis

- Exclusion of jejunum
- No bacterial overgrowth

Alamo M et al. Obesity Surgery 2012, 16: 9:1263-6

Micronutrients affected

Sites of micronutrient absorption after SADI-S



DUODENUM

Minerals:
Iron, phosphorous, calcium,magnesium, copper, selenium

Vitamins:
Riboflavin, folic acid biotin, niacin

ILEUM

Vitamins:
Vitamin B12, D, K, and folic acid

Bile salts

JEJUNUM

Minerals:
Zinc, manganese, chromium

Vitamins:
Vitamin A, C, D, E and K

Protein:
Amino acids, dipeptides

Hormones:
PYY, GLP-1

Original article

Single-anastomosis duodenoileal bypass with sleeve gastrectomy: metabolic improvement and weight loss in first 100 patients

Andrés Sánchez-Pernaute, M.D., Ph.D.[a,*], Miguel Ángel Rubio, M.D., Ph.D.[b], Elia Pérez Aguirre, M.D., Ph.D.[a], Ana Barabash, M.D., Ph.D.[b], Lucio Cabrerizo, M.D., Ph.D.[b], Antonio Torres, M.D., Ph.D.[a]

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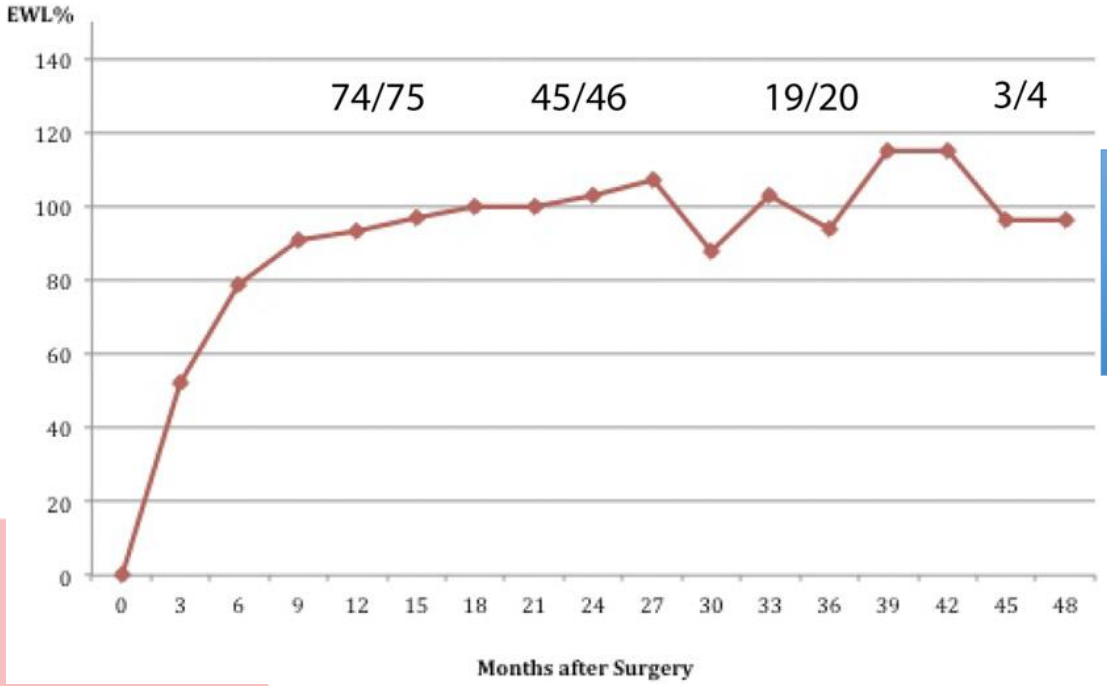
Received March 10, 2012; accepted July 28, 2012



- The common loop was increased from 200 to 250 cm by 8% hypoalbuminemia

Surgery for Obesity and Related Diseases 9 (2013) 731–735

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Santiago, Chile

Obesity Surgery (2022) 32:1049–1063
https://doi.org/10.1007/s11695-021-05824-w

ORIGINAL CONTRIBUTIONS

Evaluation of Metabolic Outcomes Following SADI-S: a Systematic Review and Meta-analysis

Kevin Verhoeff[1] · Valentin Mocanu[1] · Aiden Zalasky[2] · Jerry Dang[1] · Janice Y. Kung[3] · Noah J. Switzer[1] · Daniel W. Birch[4] · Shahzeer Karmali[4]

	D (%)	A (%)	K (%)	E (%)	B12 (%)	Hipoalbuminemia (%)
SADI-S	32,1	12,6	0,5	0	3,4	5
DS, RYGB OAGB	53,1	35,6	1,2	2,7	6,8	1,4

16 studies: 1 RCT, 3 prospective cohorts, 7 retrospective cohorts 5 retrospective observational studies (reports)
3319 patients, 1704 SADI-S
Almost all common handle 250 to 300
8 studies reported no data: 1011 from SADI-S patients
28 months follow-up

Verhoeff et al Obesity Surgery (2022) 32:1049–1063

Obesity Surgery
https://doi.org/10.1007/s11695-018-3402-x

ORIGINAL CONTRIBUTIONS

Metabolic Surgery Comparing Sleeve Gastrectomy with Jejunal Bypass and Roux-en-Y Gastric Bypass in Type 2 Diabetic Patients After 3 Years

Matías Sepúlveda[1,2] · Munir Alamo[3] · Yudith Preiss[1] · Juan P. Valderas[4]

Table 3: Laboratory data results, one year after surgery

Variables	SGJB	RYGB	*P* value	
HDL (mg/dL)	55 ± 16	54 ± 16.1	0.943	NS
Triglycerides (mg/dL)	105 ± 34.6	112.6 ± 48.2	0.394	NS
Hematocrit (%)	41.5 ± 3.8	39.9± 4.2	0.046	*
Hemoglobin (g/dL)	13.8 ± 1.2	13.3 ± 1.4	0.078	NS
GOT (IU/L)	24 ± 7	30 ± 18	0.057	NS
GPT (IU/L)	31.5 ± 11	29 ± 23	0.814	NS
GGT (IU/L)	18 ± 20	23.5 ± 20	0.124	NS
Albumin (g/dL)	4.2 ± 0.2	4.2 ± 0.3	0.999	NS
Calcium (mg/dL)	9.6 ± 0.3	9.3 ± 0.5	0.049	*

Duodenal exclusion?

Table 4: Comparative complications at 12 months

Procedures	SGJB	RYGB
N	52	51
Leaks	0 (0 %)	0 (0 %)
Internal bleeding	2 (3.8 %)	1 (1.9 %)
External bleeding	1 (1.9 %)	0 (0 %)
Conversion to open surgery	0 (0 %)	1 (1.9 %)
Mild hypoalbuminemia (<3.5 g/dL)	0 (0 %)	1 (1.9 %)
Severe hypoalbuminemia (<2.5 g/dL)	0 (0 %)	0 (0 %)
Internal hernia	1 (1.9 %)	1 (1.9 %)
EWL <50%	4 (7.5 %)	3 (5.7 %)
Mortality	0 (0 %)	0 (0 %)

腹腔镜手术

Laparoscopic Surgery

单位：例

%表示占总手术量的百分比

SG	RYGB	OAGB	BPD/DS	LSG Plus
23232	896	760	3	1568
87.8%	3.4%	2.9%	0.011%	5.9%

- 腹腔镜胃折叠术：11（0.042%）
- 腹腔镜胃束带术：1（0.004%）

中国医师协会外科医师分会肥胖和糖尿病外科医师委员会, 中国肥胖代谢外科研究协作组. 中国肥胖代谢外科数据库：2022 年度报告[J/CD]. 中华肥胖与代谢病电子杂志, 2023, 9(2): 83-91.

COMES 中国肥胖代谢外科研究协作组
CHINESE OBESITY & METABOLIC SURGERY COLLABORATIVE

腹腔镜袖状胃Plus手术

LSG Plus Surgery

单位：例
%表示占LSG Plus总量的百分比

LSG-DJB	SADI-S	LSG-JJB	LSG-TB
48	100	1141	279
3.1%	6.4%	72.8%	17.8%

中国医师协会外科医师分会肥胖和糖尿病外科医师委员会, 中国肥胖代谢外科研究协作组. 中国肥胖代谢外科数据库：2022 年度报告[J/CD]. 中华肥胖与代谢病电子杂志, 2023, 9(2): 83-91.

Obesity Surgery
https://doi.org/10.1007/s11695-018-3520-5

ORIGINAL CONTRIBUTIONS

Sleeve Gastrectomy with Bypass of Proximal Small Intestine Provides Better Diabetes Control than Sleeve Gastrectomy Alone Under Postoperative High-Fat Diet

Yugang Cheng[1] · Xin Huang[1] · Dong Wu[1] · Qiaoran Liu[1] · Mingwei Zhong[1] · Teng Liu[1] · Xiang Zhang[1] · Guangyong Zhang[1] · Sanyuan Hu[1] · Shaozhuang Liu[1]

Obesity Surgery
https://doi.org/10.1007/s11695-018-03688-1

ORIGINAL CONTRIBUTIONS

Short-Term Outcomes of Sleeve Gastrectomy plus Jejunojejunal Bypass: a Retrospective Comparative Study with Sleeve Gastrectomy and Roux-en-Y Gastric Bypass in Chinese Patients with BMI $\geq$ 35 kg/m^2

Shibo Lin[1] · Wei Guan[1] · Ningli Yang[1] · Yan Zang[1] · Ruiping Liu[1] · Hui Liang[1]

OBES SURG (2016) 26:797–804
DOI 10.1007/s11695-015-1811-7

ORIGINAL CONTRIBUTIONS

Effect of Sleeve Gastrectomy Plus Side-to-Side Jejunoileal Anastomosis for Type 2 Diabetes Control in an Obese Rat Model

Kaijing Wang[1] · Xiaogang Zhou[2] · Giang Quach[3] · Jiajun Lu[2] · Wei Gao[2] · Anan Xu[2] · Jiangfan Zhu[2]

OBES SURG
DOI 10.1007/s11695-017-2571-3

ORIGINAL CONTRIBUTIONS

Small Intestinal Bypass Induces a Persistent Weight-Loss Effect and Improves Glucose Tolerance in Obese Rats

Jiaqing Cao[1] · Quan Ren[1] · Cai Tan[2] · Jinyuan Duan[1]

Obesity Surgery (2019) 29:1148–1153
https://doi.org/10.1007/s11695-018-3607-z

ORIGINAL CONTRIBUTIONS

Proximal Jejunal Bypass Improves the Outcome of Gastric Clip in Patients with Obesity and Type 2 Diabetes Mellitus

Seh-Huang Chao[1,2] · Chia-Lin Lin[1] · Wei-Jei Lee[3] · Jung-Chien Chen[2,3] · Ju Jun Chou[2]

Published online: 29 January 2019

Obesity Surgery
https://doi.org/10.1007/s11695-018-3122-2

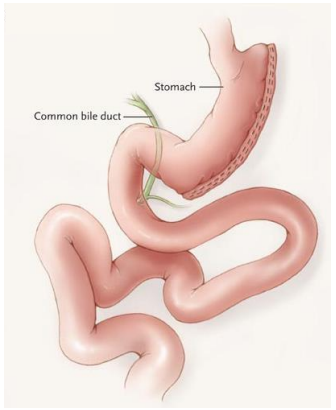
ORIGINAL CONTRIBUTIONS

Rapid Improvement in Diabetes After Simple Side-to-side Jejunoileal Bypass Surgery: Does It Need a Ligation or Not?

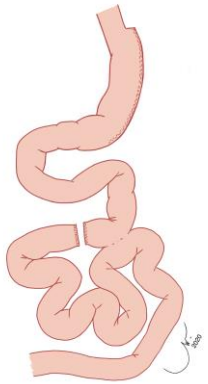
Quan Ren[1] · Jinyuan Duan[1] · Jiaqing Cao[1]

Objectives

To compare weight loss between both procedures in the long term

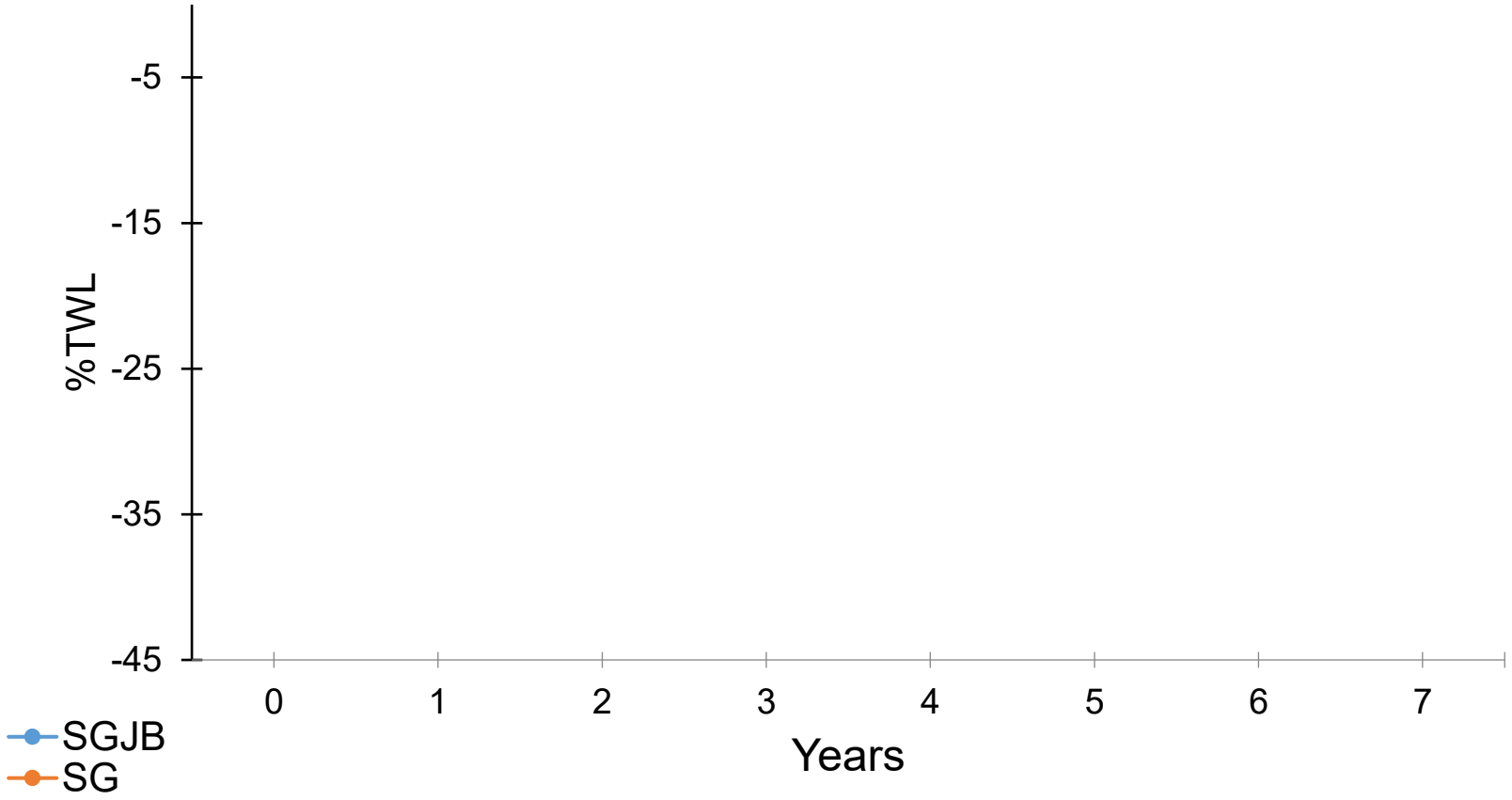


versus

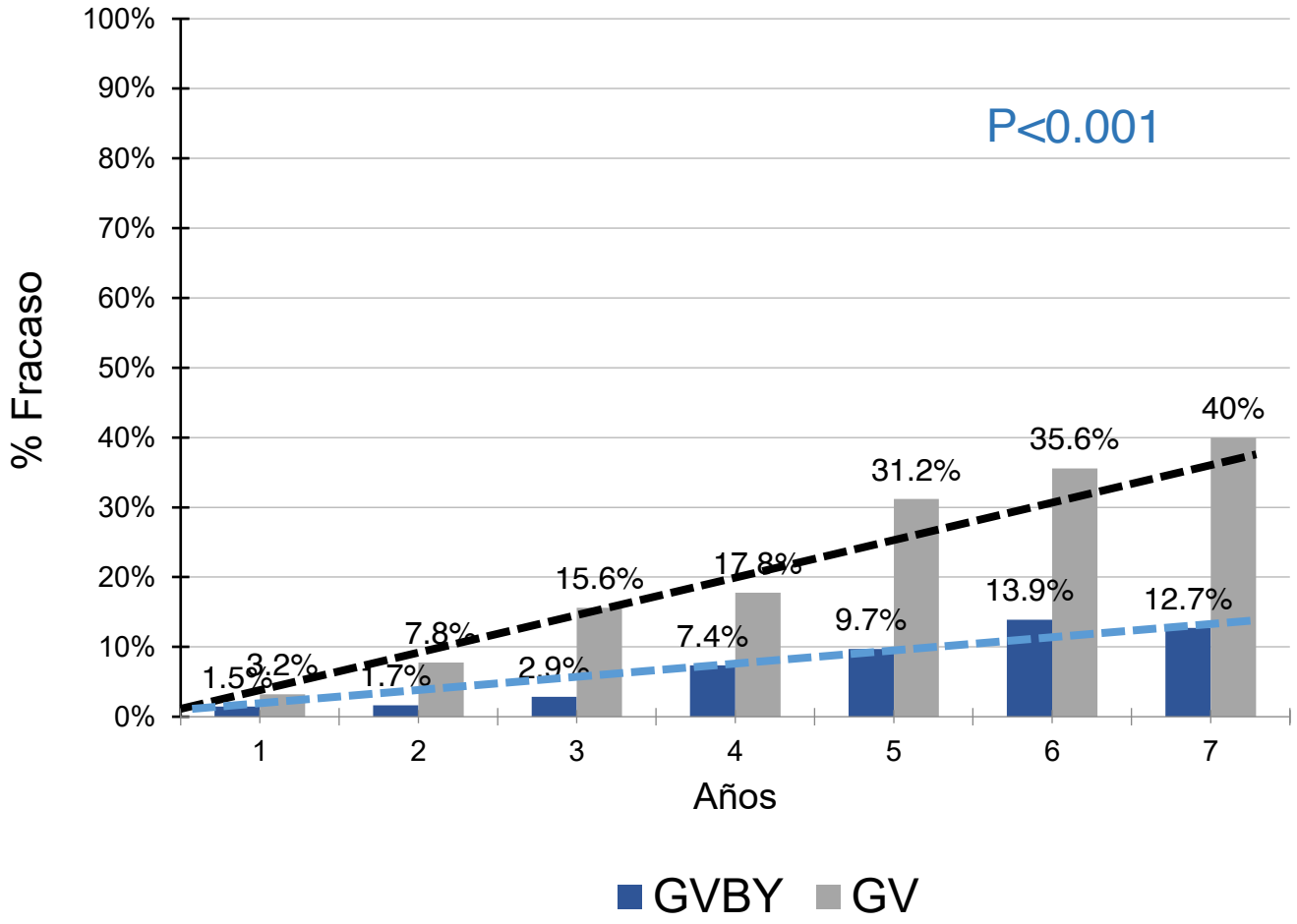


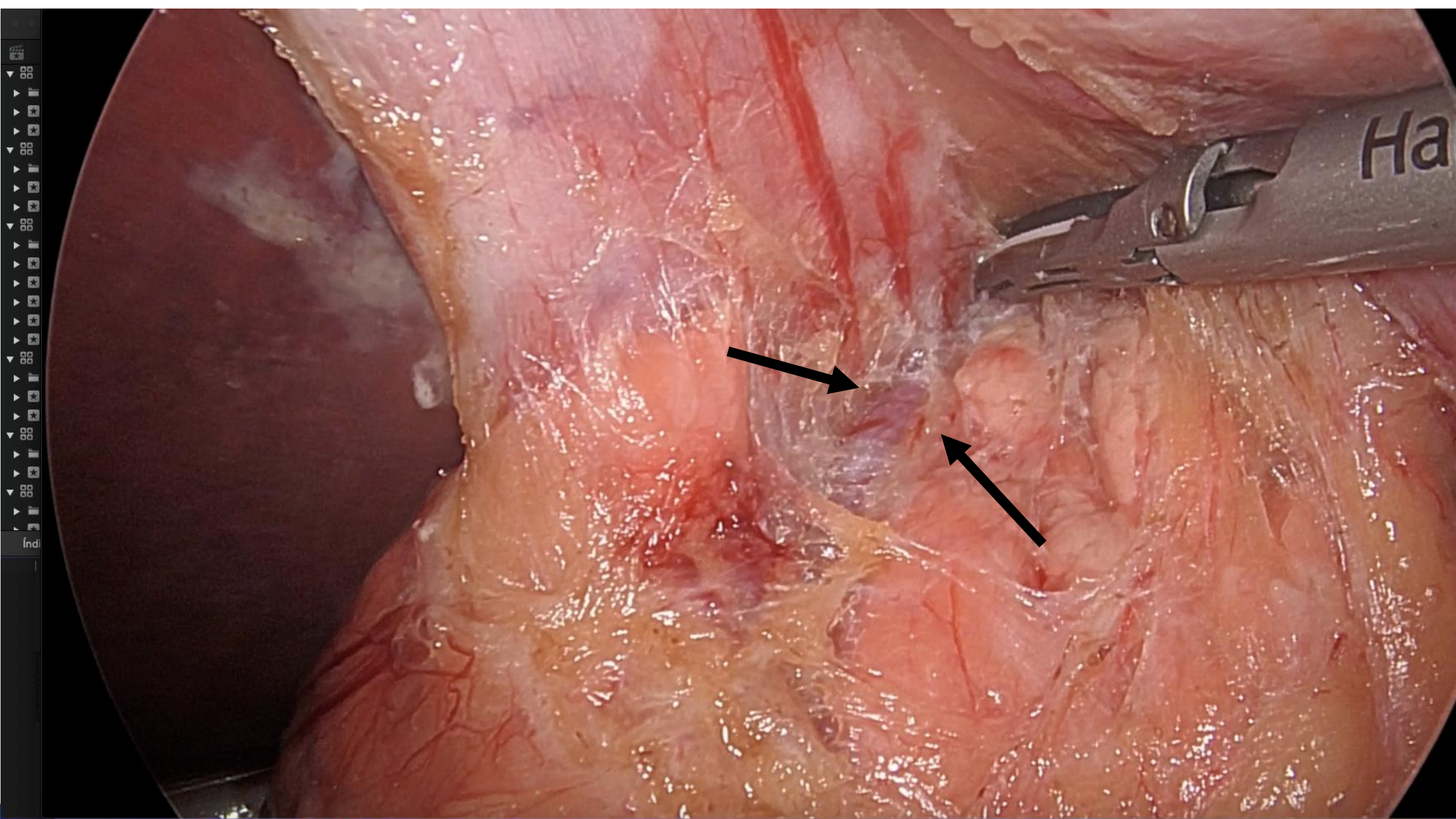
- **Patients who underwent both procedures with 5-7 years of follow up**
- **Matched by BMI and gender**

Evolution of %TWL



%EWL failure rate (<50%) after 7-year SG and SGJB

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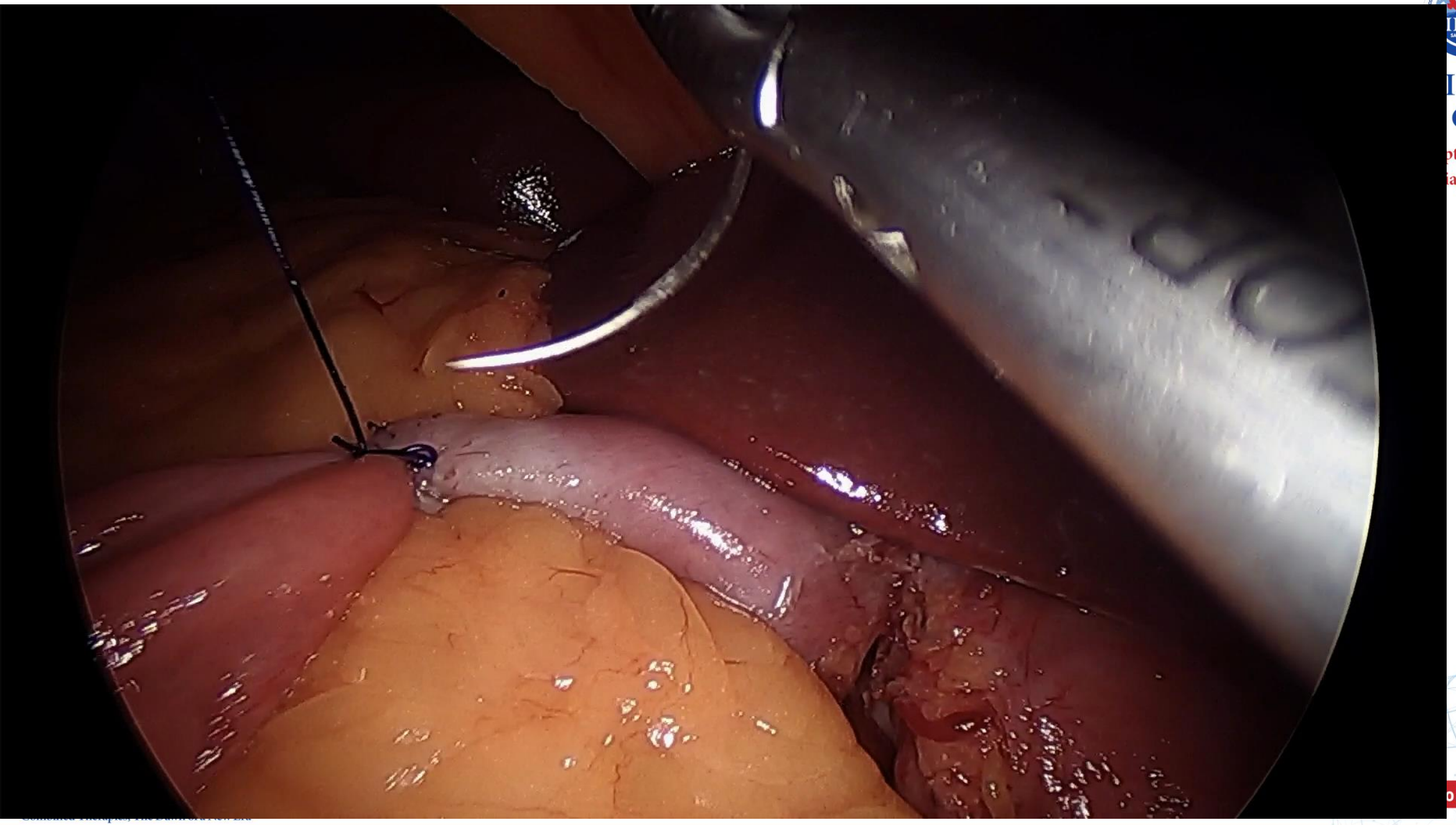
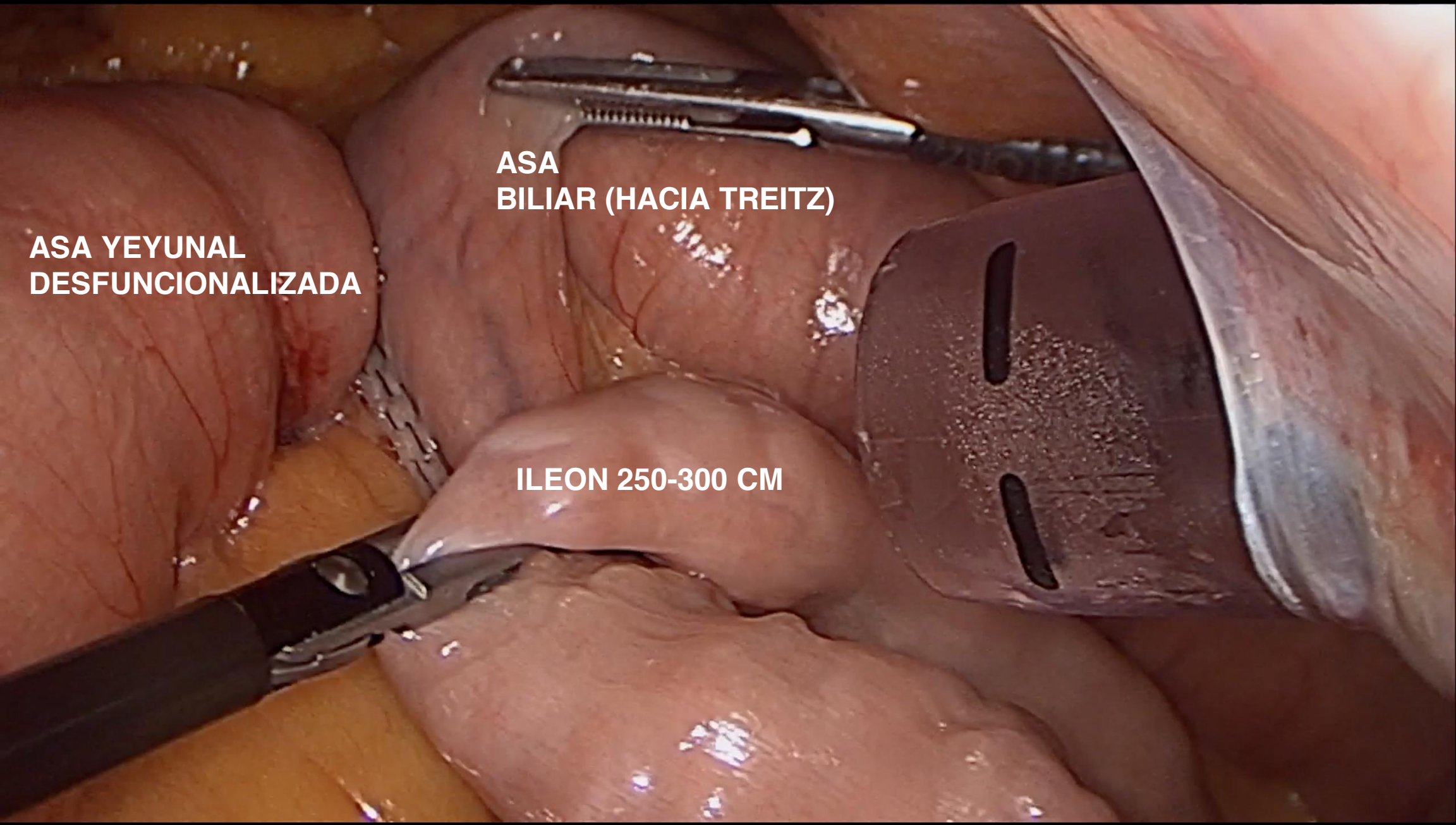
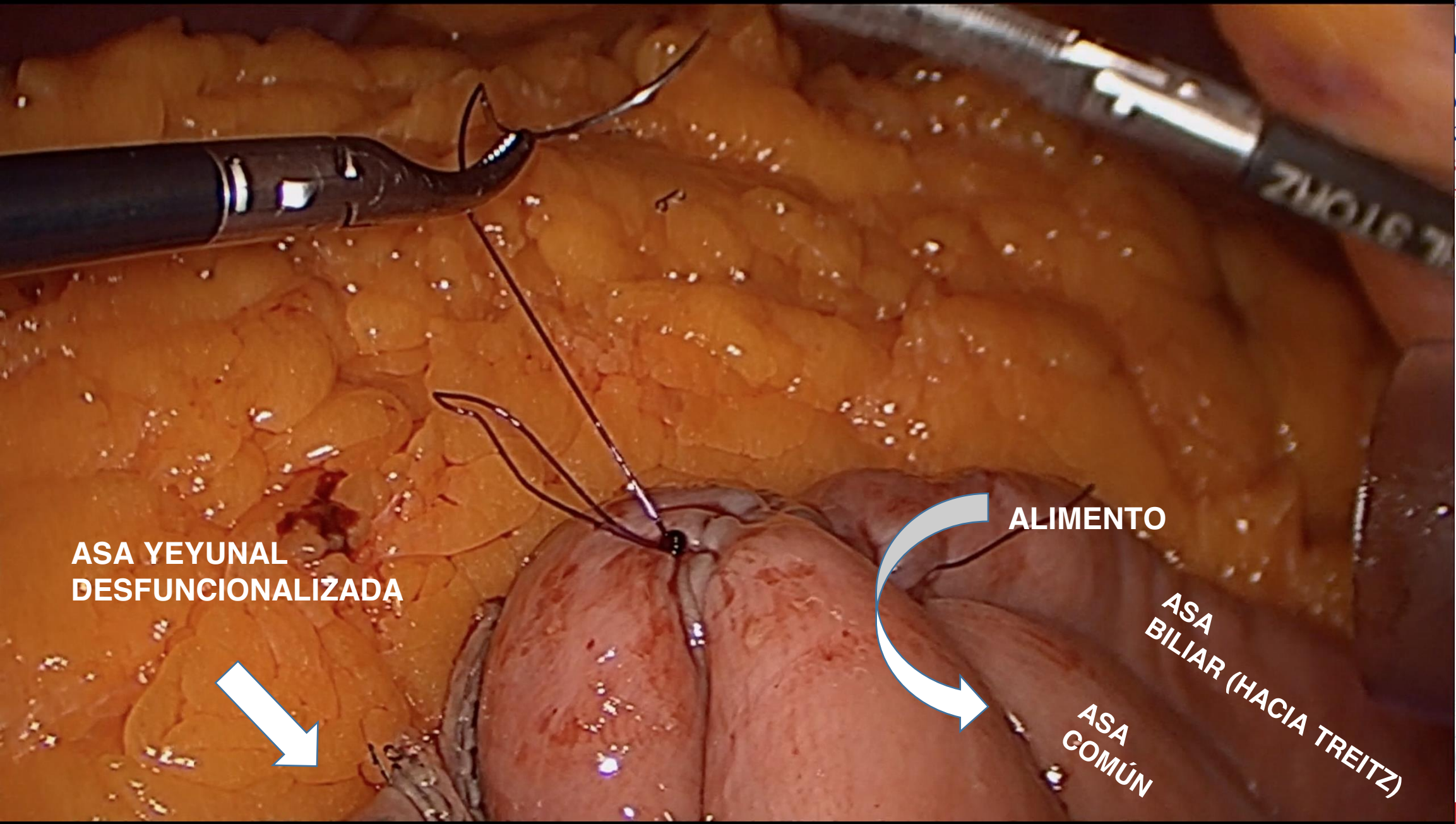




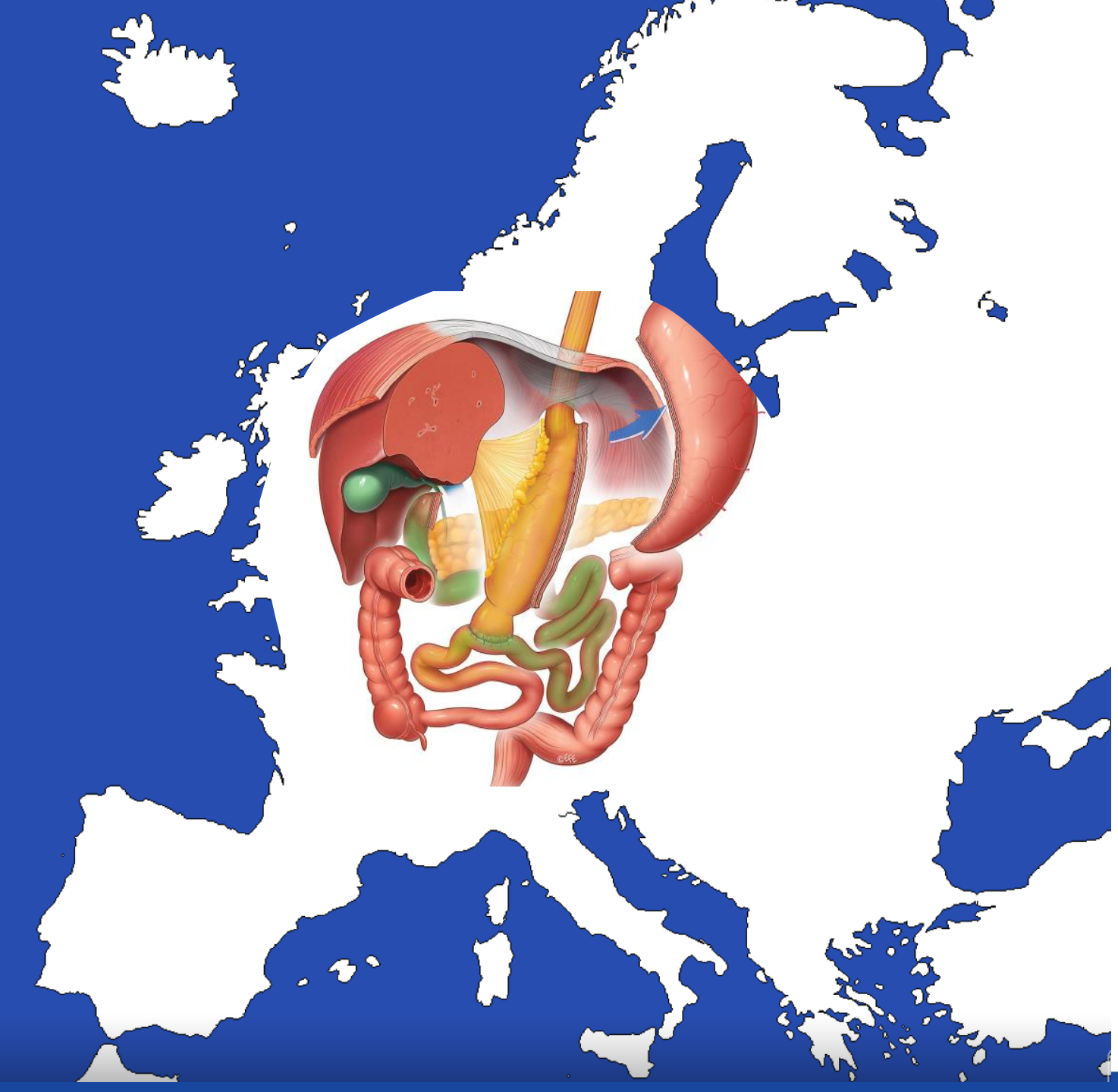


SGJB vs. SADI-S

Feature	Sleeve Gastrectomy with Jejunal Bypass (SGJB)	SADI-S
Duodenal passage	Preserved → maintains absorption of calcium, iron, and water-soluble vitamins ✓	Excluded duodenum → risk of mineral deficiencies (Ca, Fe, Zn, Cu) ✗
Access to biliary tree	Maintained (endoscopic access preserved) ✓	Lost (endoscopic access difficult) ✗
Anatomy and hernia risk	Supra- and infra-mesocolic components → no Petersen's hernia ✓	Petersen's hernia possible (loop transmesenteric passage) ✗

SGJB vs. SADI-S

Feature	Sleeve Gastrectomy with Jejunal Bypass (SGJB)	SADI-S
Technical complexity	✓ Easier to perform, easier to teach, higher reproducibility	More technically demanding ✗
Metabolic mechanism	✓ Ileal activation via early nutrient delivery → incretin effect	Ileal activation via duodenoileal diversion → incretin effect ✓
Revisional potential	✓ Easy to revise or convert	Revisional surgery more complex ✗



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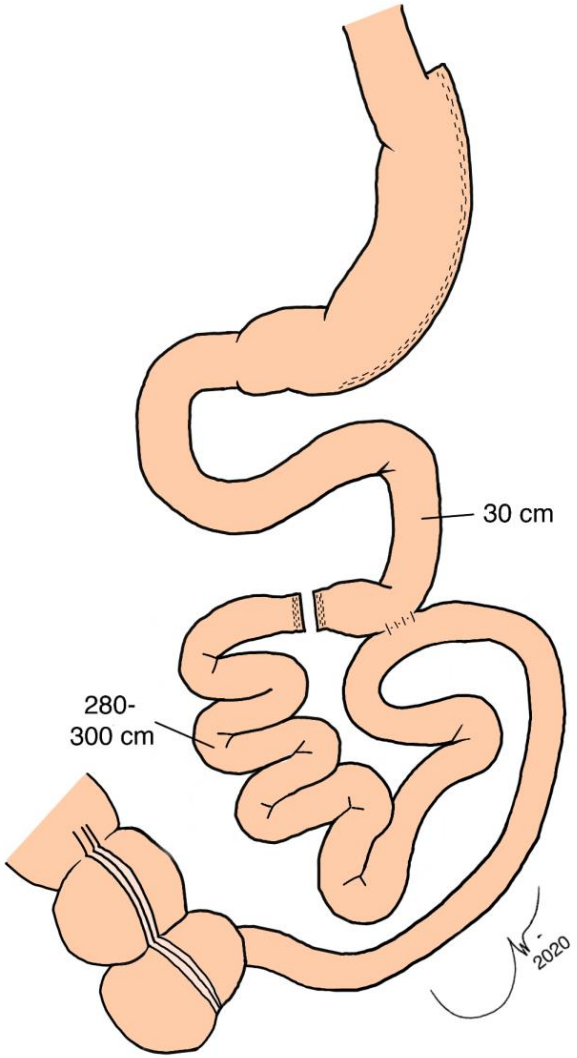

SGJB

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