<u>Tranchart H</u>, Derienne J, Devaquet N, Del Basso C, Courie R, Voican C, Perlemuter G, Dagher I

Department of Minimally Invasive Surgery, Antoine Béclère Hospital,

Paris-Saclay University





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Conflict of Interest Disclosure

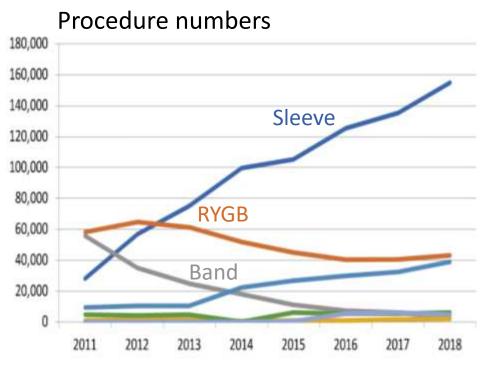
I have no potential conflict of interest to report:

transparence.sante.gouv.fr



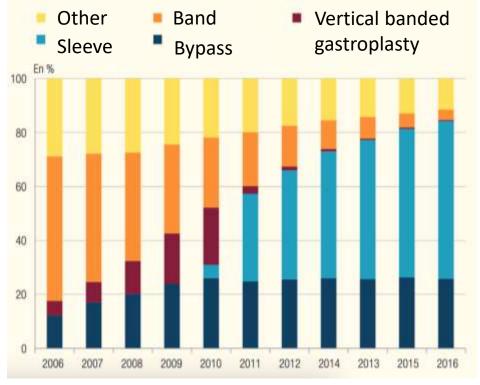
Introduction

Sleeve gastrectomie





ASMBS English WJ. SOARD 2020







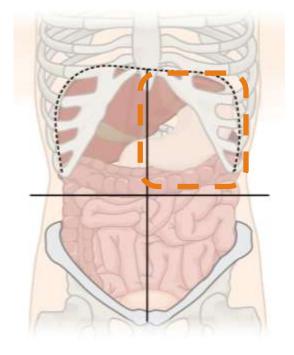




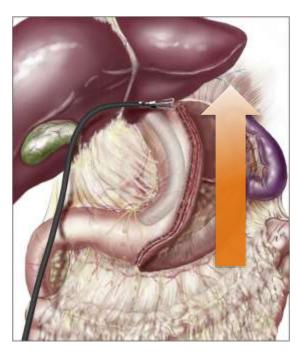
IFSO

Introduction

Single Port Sleeve gastrectomie (SPSG)



One abdominal quadrant



Limited movements





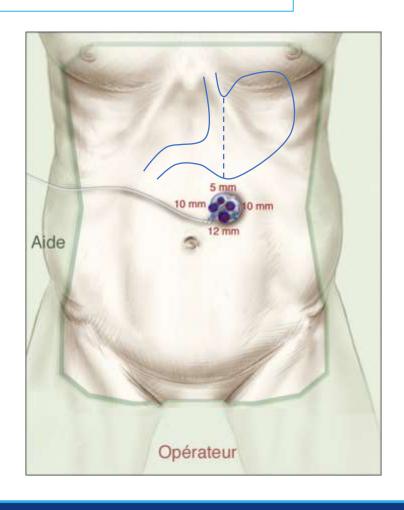
Requires specimen extraction

Criticisms

Complexity of triangulation
Difficult exposure
Suboptimal sleeve construction?
Incisional hernia?

Methods

Surgical procedure



> 3500 patients

Standardized and reproducible technique (left hypochondrium)

Transumbilical approach in selected patients

Tranchart H. Surg Endosc 2022

Lainas P. Obes Surg 2021

Tranchart H. Surg Endosc 2020

Lainas P. Obes Surg 2018

Gaillard M. SOARD 2016

Pourcher G. SOARD 2013



Methods

Surgical procedure







Results

NAPOLI

August 2010 to December 2022

3000 consecutive patients

Demographics	
Age (years) ± SD	40.1 ± 12.3
Gender (F/M)	2535/465

Données morphologiques	
Weight (kg), median [95%CI]	118 [84-222]
BMI (kg/m²), median [95%CI]	45 [34-88]
$BMI > 50 \text{ kg/m}^2$	513 (17.7%)

Surgical history		
Total	1485	49.5%
UGI procedure	657	21.9%

Comorbidity		
Diabetes	444	14.8%
Hypertension	1080	36.0%
Dyslipidemia	582	19.4%
OSAS	1683	56.1%

Results

3000 consecutive patients

Operative outcomes		
Single port	2853	95.1%
Additional trocart	147	4.9%
Reason Exposure Adhesiolysis Bleeding	99 / 147 37 / 147 11 / 147	67.3% 25% 7.7%
Conversion to laparotomy	1	0.03%
Operative duration (median and [95%CI])	86 min	[45 – 180]

Results

3000 consecutive patients

Postoperative outcomes < 30 days		
Mortality	1	0.03%
Postoperative morbidity Reintervention	225 67	7.5% 2.2%
Bleeding / Hematoma	45	1.5%
Stapple line leak	57	1.9%



Results

2305 patients follow-up > 1 year

	1 year	3 years	5 years
Weight loss			
%EWL, mean ± SD	$71\% \pm 27\%$	$68\% \pm 26\%$	59% ± 29%
Comorbidity remission			
Diabetes (%)	36%	-	-
Hypertension (%)	45%	-	-
Dyslipidemia (%)	25%	-	-
OSAS (%)	41%	-	-
Incisional hernia, n (%)	90 (3.9%)	-	-

Discussion

What have we learned?

Decrease of operative duration

2010-2015 : 112 min [50-360]

2016-2022 : 75 min [45-150]

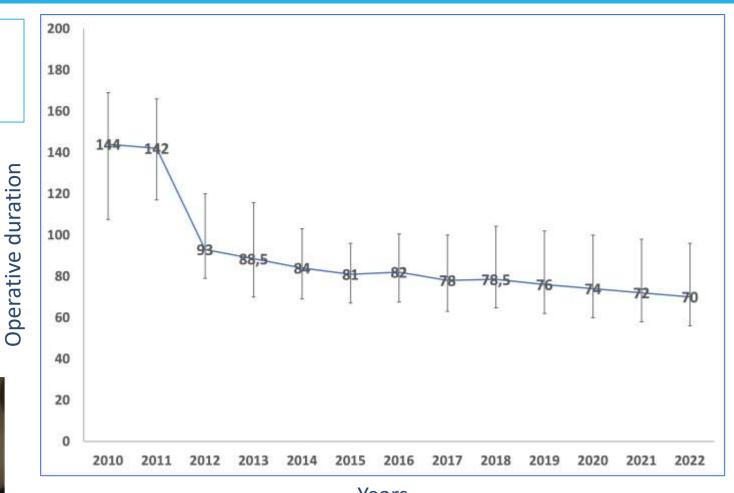
+ 15 minutes



Antoine Béclère

VS.

Amiens *Tranchart H. Surg Endosc 2020*

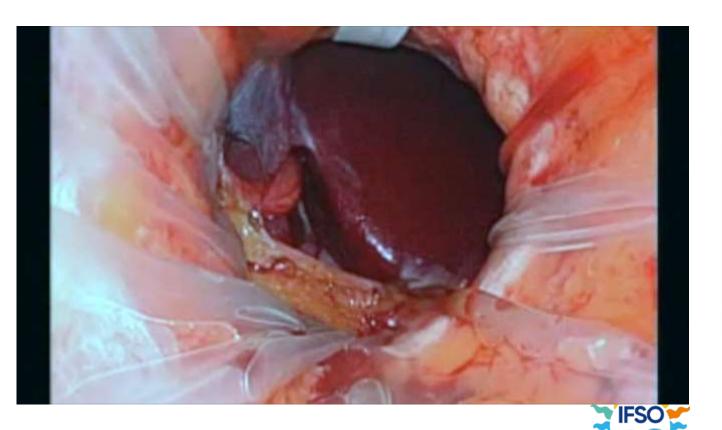




Discussion

What have we learned?

Interest in multi-operated patients









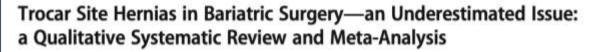
Lainas P. Obes Surg 2018

Discussion

What have we learned?

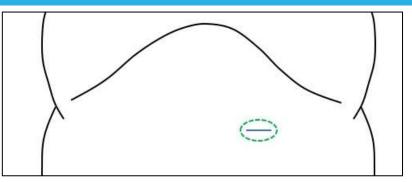
Parietal wall

Systematic CT-scan one year after surgery Research of any abdominal wall gap 184 hernias / 1000 patients (18.4%)

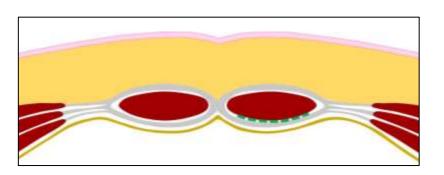


Pooled incidence of 24.5%

Karampinis I. Obes Surg 2019







Reinforcement with prosthetic patch: 6% incisional hernias on 1-year CT scan
PRISM (ISRCTN 52462725)



Tranchart H. Surg Endosc 2022

Discussion

What have we learned?

Umbilical approach

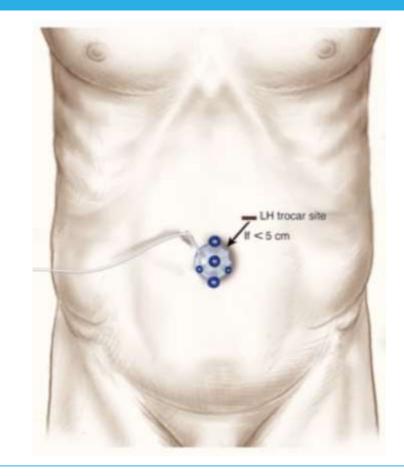
25% of patients since 2018

Selection criteria:

- theoretical site and umbilicus < 5cm
- female gender (gynoid obesity)
- height < 1m70

Use of long instruments

More difficult left crus dissection, but easier stapling on antrum



No difference in postoperative results Incisional hernia rate being explored

Discussion

Advantages over laparoscopy

70 articles

1 small trial: *Morales-Conde S. SOARD 2017*15 patients per group

ONESLEEVE study (PI: Hadrien Tranchart) Non-randomized prospective comparative study Primary endpoint: Multimodal score (aesthetics, pain, QOL) at 1 month Inclusions completed, final results pending

Conclusions

- SPSG routinely feasible in all patients through left hypochondrium
- Results at least comparable to conventional laparoscopy
- Benefits yet to be demonstrated
- Trans-umbilical approach feasible in selected patients (≈25%)
- Incisional hernia risk by umbilical approach remains to be explored



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