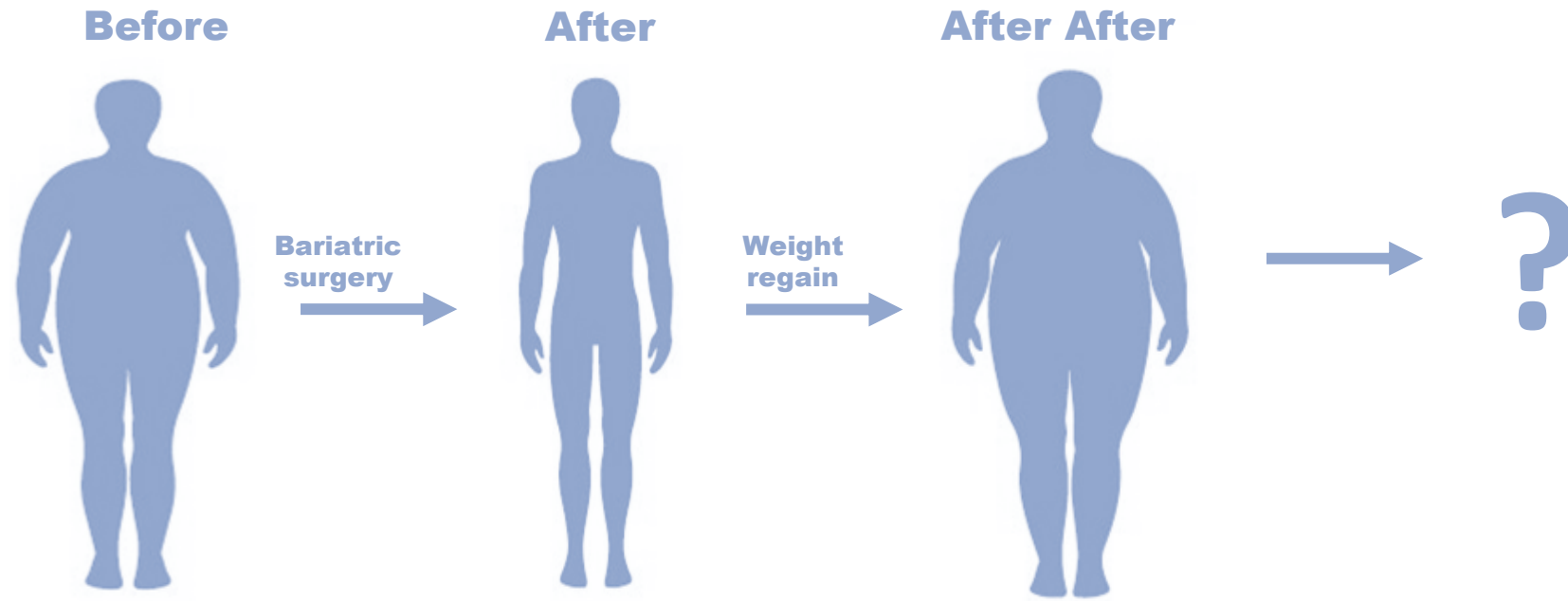


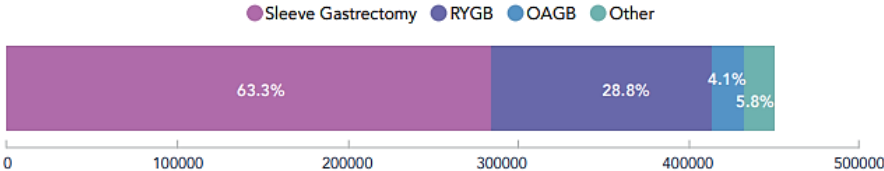
# Revision for Recurrent Weight Gain – Conversion to SADI

Dr Muffazal Lakdawala – Sir H N Reliance Foundation Hospital and Research Centre, Mumbai, India.



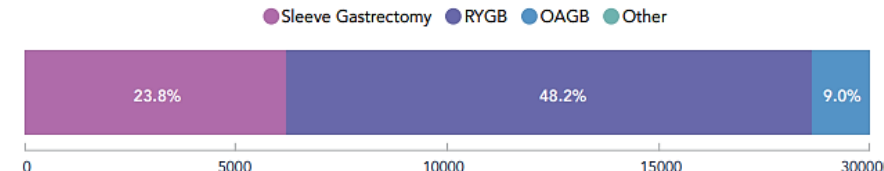
**I have no potential conflict of interest to report**

Primary procedures



Primary procedure types (n=449,583). \*potential for procedures to be represented twice due to possible overlaps with the datasets of USA and Michigan

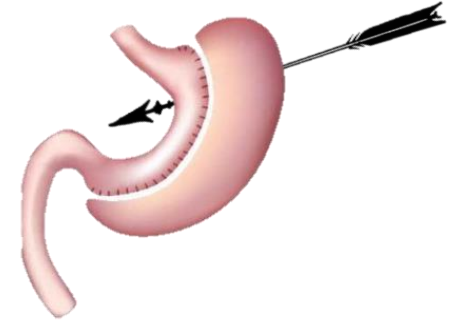
Revisional procedures



Revisional procedures (n=19,814). For all countries apart from the USA (n=5,435 excluded from analysis as no breakdown provided).

(8<sup>th</sup> IFSO Global Registry, 2023)

- Significant drawbacks of this procedure are the development of **de novo GERD and weight regain**
- **Up to 30%** of LSG patients may require revision surgery for reflux esophagitis or weight regain.
- Systematic review by Lauti and colleagues observed that rates of regain ranged from **5.7 % at 2 years to 75.6 % at 6 years.**
- Sepúlveda and colleagues observed a failure rate at 5yrs is 30.4% and 7yrs is 51.4%.
- Proposed causes of weight regain included initial sleeve size, sleeve dilation, increased ghrelin levels, inadequate follow-up support and maladaptive lifestyle behaviours.



(Lauti, M. et al. 2016; Lee, W. J, et al. 2017; Sepúlveda M., 2017)

## Assessment of the Failure Rates of Sustainable Weight Loss after Sleeve Gastrectomy: A Systematic Review

| Study Name                    | Follow Up (In Years) | Key Findings  | Conclusion   |
|-------------------------------|----------------------|---|--|
| Alqahtani, A.; et al. 2018    | 5                    | Patients who regained more than 50% of the weight lost following surgery were considered to have failed to achieve sustained weight reduction. According to the study, the failure rate for long-term weight loss following sleeve gastrectomy in Saudi Arabia was 25%.                     | According to the study, <b>one-quarter</b> of patients did not have long-term success in sustaining their weight loss following surgery. |
| Albeladi, B.; et al. 2022     | 5                    | In Saudi Arabia, the failure rate of long-term weight reduction following sleeve gastrectomy was 23.1% after 5 years.   | Almost <b>a quarter</b> of individuals were unable to sustain their weight decrease long after surgery.                                  |
| Courcoulas, A.P.; et al. 2014 | 5                    | The study discovered that the failure rate for long-term weight reduction after sleeve gastrectomy in the United States was 30%.  | According to the study, roughly <b>one-third of patients</b> did not maintain their weight decrease following surgery.                   |
| Singh, S.; et al. 2020        | 3                    | The failure rate of long-term weight reduction was defined as patients who recovered more than 30% of their lost weight during the first year after surgery. The study found that 25% of individuals who underwent sleeve gastrectomy in India failed to achieve long-term weight reduction | According to the study, <b>one-quarter of patients</b> did not have long-term success in sustaining their weight loss following surgery. |

(Mohamed, A.M.M; Faisal, M. S. Al-Dour; & Eman, I. A.O, 2024)

## Assessment of the Failure Rates of Sustainable Weight Loss after Sleeve Gastrectomy: A Systematic Review

| Study Name                  | Follow Up (In Years) | Key Findings   | Conclusion  |
|-----------------------------|----------------------|--|---|
| Choudhary, D.; et al. 2018  | 5                    | According to the study, 30% of patients in India failed to achieve long-term weight loss following sleeve gastrectomy.   | According to the study, approximately <b>one-third of individuals</b> did not lose weight successfully over time.   |
| Maghrabi, R.A.; et al. 2020 | 5                    | The study discovered that the failure rate of long-term weight loss after sleeve gastrectomy in London was 30%, with 45 of 150 patients failing to lose the necessary weight   | Approximately <b>one-third of patients</b> did not achieve good long-term weight reduction maintenance following surgery.   |
| Elbanna, H. et al. 2020     | 3                    | The study found that 35% of patients in Egypt failed to achieve sustainable weight reduction following sleeve gastrectomy, with just 65% effectively sustaining the required weight loss during a three-year follow-up period. | The study participants had a <b>greater failure rate</b> , with just 65% successfully maintaining the goal weight decrease. The failure rate of long-term weight loss after sleeve gastrectomy in the United States was reported to be 15.5% 5 years after surgery. |



**Weight maintenance remains a challenge post Sleeve Gastrectomy.**

(Mohamed, A.M.M; Faisal, M. S. Al-Dour; & Eman, I. A.O, 2024)

**METHODS**

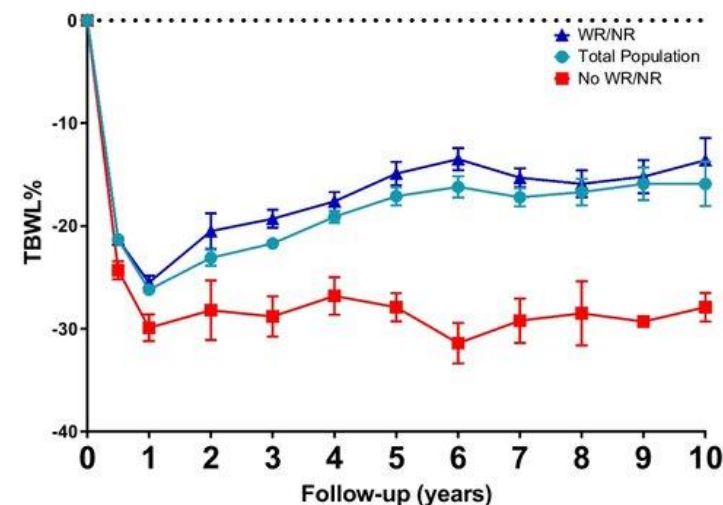
- Consecutive SG performed from 2008 to 2017, with follow-up  $\geq$  5 years.
- Surgical non-response (NR) was defined as  $< 20\%$  of %TBWL.
- Weight recurrence (WR) defined as  $>20\%$  weight regain from nadir post-operative weight.

**Weight Loss (TBWL%)**  
 No WR/NR **X** WR/NR



**RESULTS**

- 79.9% of patients were NR/WR
- HTN and T2DM were more prevalent in NR/WR group.
- TBWL% at 1 year was greater in No NR/WR group (25.5 vs 29.9;  $p=0.005$ ).



| Follow-up (Years)    | 0    | 0.5 | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9  | 10 |
|----------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| Total population (n) | 1263 | 632 | 846 | 569 | 448 | 359 | 277 | 220 | 193 | 95 | 59 | 36 |
| WR/NR (n)            | 271  | 193 | 205 | 176 | 178 | 163 | 185 | 187 | 166 | 90 | 56 | 33 |
| No WR/NR (n)         | 68   | 40  | 42  | 40  | 35  | 36  | 35  | 33  | 27  | 5  | 3  | 3  |

Long-term %TBWL follow-up comparison between total population, no WR/NR, and WR/NR groups

(Lind, R.; et al. 2023)

Review > Obes Surg. 2016 Jun;26(6):1326-34. doi: 10.1007/s11695-016-2152-x.

## Weight Regain Following Sleeve Gastrectomy—a Systematic Review

Melanie Lauti<sup>1</sup>, Malsha Kularatna<sup>2</sup>, Andrew G Hill<sup>2</sup>, Andrew D MacCormick<sup>2</sup>

Rates of regain ranged from 5.7 % at 2 years to 75.6 % at 6 years.

Review > Obes Surg. 2021 Apr;31(4):1755-1766. doi: 10.1007/s11695-020-05160-5.

Epub 2021 Feb 8.

## Weight Regain and Insufficient Weight Loss After Bariatric Surgery: Definitions, Prevalence, Mechanisms, Predictors, Prevention and Management Strategies, and Knowledge Gaps—a Scoping Review

Walid El Ansari<sup>1 2 3</sup>, Wahiba Elhag<sup>4</sup>

WR after laparoscopic sleeve gastrectomy (LSG) was 27.8% (range 14–37%) at long-term follow-up (≥ 7 years)



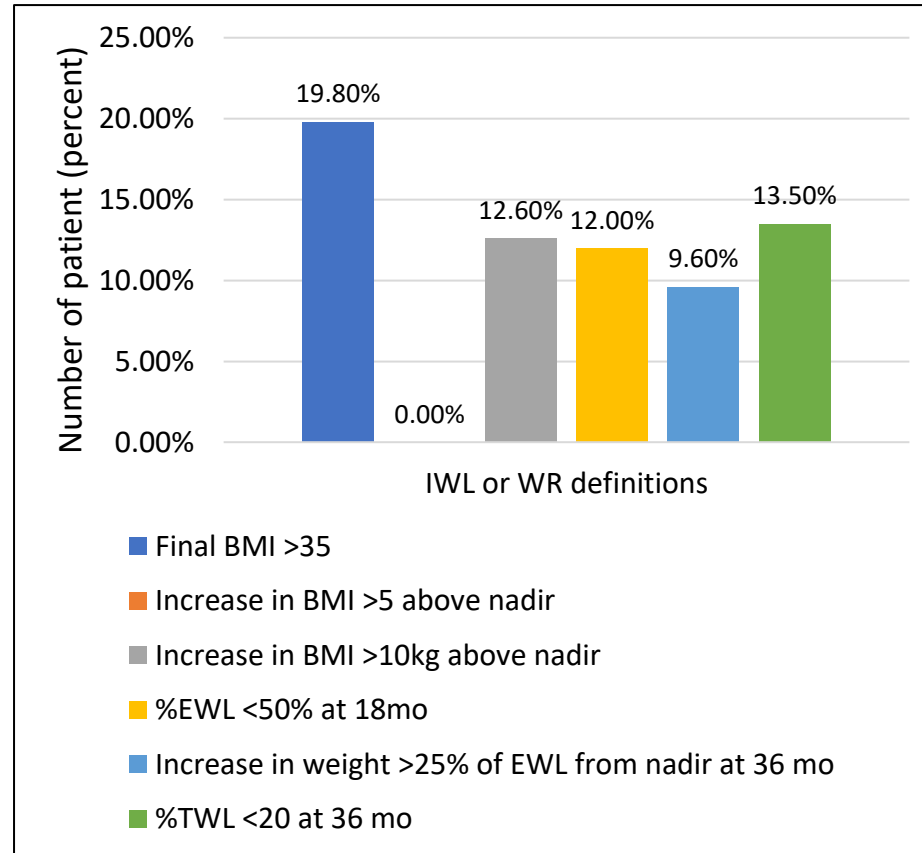


Predictors of Weight Regain and Insufficient Weight Loss According to Different Definitions After Sleeve Gastrectomy: a Retrospective Analytical Study

Fahime Yarigholij, Mansour Bahardoust, Hesam Mosavari, Farshid Monshizadeh Tehrani, Hamed Gholizadeh, Shahab Shahabi Shahmiri, Hamid Rezvani, Bahador Oshidari, Kiana Garakani & Foolad Eghbali

Obesity Surgery 32, 4040–4046 (2022) | Cite this article

Results





WR - Weight regain; IWL - Insufficient weight loss

Conclusion

Regardless of the definition of WR or IWL

 Metformin consumption had a preventative effect on WR and IWL

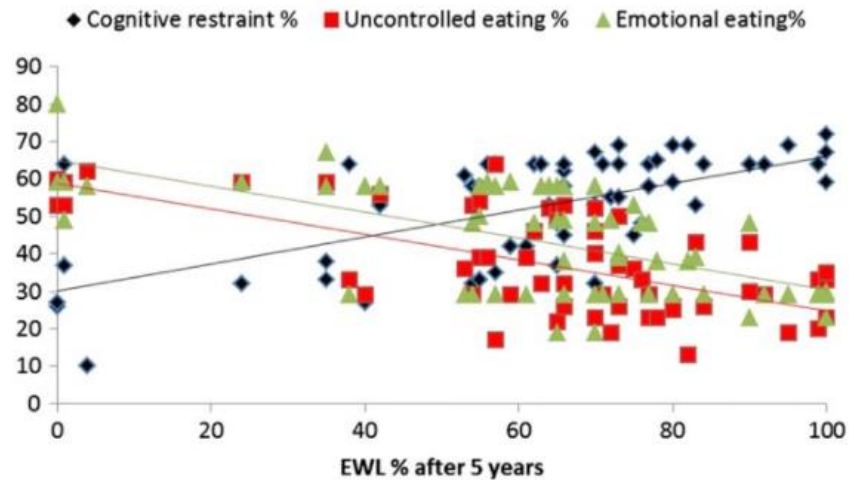
 Patients with preoperative BMI of >45 kg/m<sup>2</sup> were more likely to experience IWL or WR

 Obstructive sleep apnea, and grades 2 and 3 of fatty liver disease were associated with WR or IWL.

> Obes Surg. 2019 Nov;29(11):3508-3513. doi: 10.1007/s11695-019-04009-w.

## Analysis of Medium-Term Weight Regain 5 Years After Laparoscopic Sleeve Gastrectomy

Ashraf A Bakr <sup>1</sup>, Mohamed H Fahmy <sup>1</sup>, Athar S Elward <sup>1</sup>, Hany A Balamoun <sup>2</sup>, Mohamed Y Ibrahim <sup>1</sup>, Ramy M Eldahdoh <sup>1</sup>



Correlation between %EWL at 5 years and cognitive restraint, uncontrolled eating, and emotional eating scales of the Three-Factor Eating Questionnaire (TFEQ-R18) questionnaire

Medium-term postsurgical weight regain and unsuccessful weight loss in patients who had undergone LSG is associated with:

- Older age
- Maladaptive eating behavior
- Larger residual stomach
- Pregnancy

> J Metab Bariatr Surg. 2023 Dec;12(2):35-43. doi: 10.17476/jmbs.2023.12.2.35. Epub 2023 Nov 8.

### Single Anastomosis Duodeno-Ileal Bypass (SADI) as a Second Step After Failed Sleeve Gastrectomy: Systematic Review and Meta-analysis

Karim Ataya <sup>1</sup>, Ayman Bsar <sup>2</sup>, Abdul Hafiz Al Tannir <sup>2</sup>, Al Moutuz Al Jaafareh <sup>1</sup>, Amir Rabih Al <sup>3</sup>, George Abi Saad <sup>4</sup>

SADI as a salvage procedure following SG yielded positive outcomes.

Mean operative time was 125.98 minutes (95% CI 102.50–149.46, I2 =99%).

Importantly, **SADI led to comorbidity resolution in a notable proportion of cases:** hypertension in 48% (95% CI 38–57%, I2 =44%), dyslipidemia in 55% (95% CI 40–69%, I2 =30%), and diabetes in 63% (95% CI 53–72%, I2 =30%) of patients.

**Conclusion:**

**Post-operative diarrhea incidence was relatively low** at 2% (95% CI 1–9%, I2 =75%).

**SADI as a salvage procedure post-SG demonstrates technical feasibility and marked effectiveness.**

In terms of weight loss, SADI patients exhibited substantial EWL:

**47.76%** (95% CI 37.18–58.54, I2 =95%) at six months, **59.39%** (95% CI 51.18–67.61, I2 =95%) at twelve months

**59.39%** (95% CI 51.18–67.61, I2 =95%) at twelve months

**23.84%** (95% CI 5.76–41.92, I2 =100%) at twenty-four months. **Further research should investigate the long term impact of SADI on patient nutritional status to facilitate its broader adoption.**

[Wideochir Inne Tech Maloinwazyjne](#). 2023 Jun; 18(2): 298–304.  
Published online 2023 Jun 15. doi: [10.5114/wiitm.2023.128683](#)

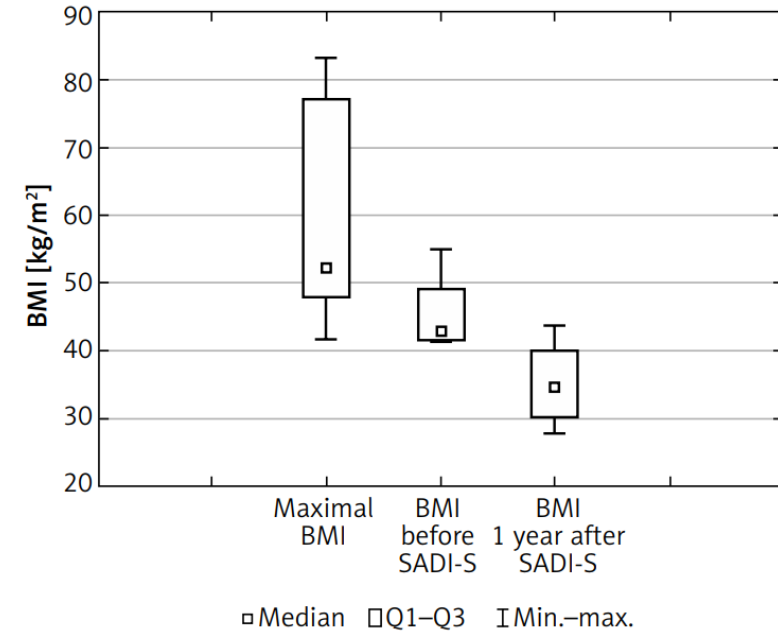
PMCID: PMC10481443  
PMID: [37680742](#)

Initial experience with laparoscopic revisional single anastomosis duodeno-ileal bypass (SADI-S) after failed sleeve gastrectomy

[Michał Wysocki](#)<sup>1</sup>, [Maciej Borys](#)<sup>1</sup>, [Dorota Budzyńska](#)<sup>1</sup>, [Magdalena Pisarska-Adamczyk](#)<sup>2</sup>, [Piotr Małczak](#)<sup>3</sup>, [Anna Rajtar](#)<sup>1</sup> and [Andrzej Budzynski](#)<sup>1</sup>

| Parameter   | Value                 |
|---|-----------------------|
| Maximal life-time BMI [kg/m <sup>2</sup> ] median (Q1–Q3)     | 52.29 (47.96–77.16)   |
| BMI before SADI-S [kg/m <sup>2</sup> ] median (Q1–Q3)         | 43.09 (41.64–48.99)   |
| BMI 1 year after SADI-S [kg/m <sup>2</sup> ] median (Q1–Q3)   | 34.69 (30.39–40.03)   |
| %TWL 1 year after SADI-S, median (Q1–Q3); from maximal weight | 30.78% (27.12–48.84%) |
| %EBMIL 1 year after SADI-S, median (Q1–Q3); from maximal BMI  | 61.67% (50.28–80.07%) |
| Additional %TWL 1 year after SADI-S, median (Q1–Q3)           | 18.65% (17.25–21.89%) |
| Additional %EBMIL 1 year after SADI-S, median (Q1–Q3)         | 35.88% (29.18–41.92%) |

BMI – body mass index, %TWL – percentage total weight loss, %EBMIL – percentage excess body mass index loss, SADI-S – single anastomosis duodeno-ileal bypass after sleeve.



Changes in patients’ median body mass index (BMI) during study

**SADI-S is promising re-do surgery for insufficient weight loss or weight regain after laparoscopic sleeve gastrectomy with low postoperative morbidity.**

**Observed additional %TWL 1 year after SADI-S can be expected at a level of ~19%, and additional %EBMIL of ~36%, with significant improvement of obesity - related comorbidities.**

> *Obes Surg.* 2021 Jun;31(6):2691-2700. doi: 10.1007/s11695-021-05323-y. Epub 2021 Apr 9.

## Efficacy and Drawbacks of Single-Anastomosis Duodeno-Ileal Bypass After Sleeve Gastrectomy in a Tertiary Referral Bariatric Center

Arnaud Liagre<sup>1</sup>, Francesco Martini<sup>1</sup>, Yves Anduze<sup>1</sup>, Hubert Boudrie<sup>1</sup>, Olivier Van Haverbeke<sup>1</sup>, Stefano Valabrega<sup>2</sup>, Radwan Kassir<sup>3</sup>, Tarek Debs<sup>4</sup>, Niccolò Petrucciani<sup>5</sup>

|                   | 12 months            | 24 months                | 36 months                  | 48 months              |
|-------------------|----------------------|--------------------------|----------------------------|------------------------|
| Weight            | 88.5 ± 19.2 (54–145) | 87.8 ± 20.7 (53–139)     | 95.8 ± 18.4 (62–134)       | 94.7 ± 13.3 (75–113)   |
| BMI               | 32.2 ± 6.9 (22–46)   | 31.8 ± 6.7 (20–57)       | 34.5 ± 6.4 (26–55)         | 33.9 ± 3 (29–38)       |
| %EWL              | 74.1 ± 22.1 (10–141) | 76.9 ± 25.2 (18–160)     | 68.5 ± 22.7 (18–97)        | 78.2 ± 9.4 (68–95)     |
| %TWL (overall)    | 36 ± 10.5 (4.5–58.9) | 37.6 ± 12.3 (10.9–63.8)  | 35.6 ± 12.6 (7.5–57.8)     | 44.1 ± 8.2 (32.1–59.4) |
| Additional %TWL   | 22 ± 9.1 (2.4–48.1)  | 23.2 ± 12.9 (–9 to 53.4) | 19.4 ± 12.7 (–4.6 to 38.7) | 22.6 ± 9.6 (6.9–36.6)  |
| N. of patients    | 81                   | 64                       | 31                         | 10                     |
| Lost to follow-up | 1                    | 2                        | 1                          | 1                      |

*BMI*, body mass index; *EWL*, excess weight loss; *TWL*, total weight loss; *N.*, number

### Weight loss outcomes after single-anastomosis duodeno-ileal bypass

> *Obes Surg.* 2021 Jun;31(6):2691-2700. doi: 10.1007/s11695-021-05323-y. Epub 2021 Apr 9.

## Efficacy and Drawbacks of Single-Anastomosis Duodeno-Ileal Bypass After Sleeve Gastrectomy in a Tertiary Referral Bariatric Center

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| Complication/additional procedure                                  | Number (percentage) |
|--|---------------------|
| Cholecystectomy  | 6 (7.4%)            |
| Urinary lithiasis  | 5 (6.2%)            |
| GERD managed with medical treatment                                | 15 (18.5%)          |
| Invalidating reflux treated by conversion to RYGB                  | 1 (1.2%)            |
| Invalidating reflux treated by hiatal hernia repair and gastropexy | 3 (3.7%)            |
| Anastomotic stenosis   | 0                   |
| Re-SG for insufficient weight loss                                 | 2 (2.5%)            |
| Malnutrition managed with medical treatment                        | 2 (2.5%)            |
| Laparoscopy for abdominal pain                                     | 1 (1.2%)            |
| Conversion to RYGB for abdominal pain, diarrhea, and malnutrition  | 1 (1.2%)            |
| Internal hernia  | 0                   |
| Cerebral hematoma  | 1 (1.2%)            |
| Incisional hernia/umbilical hernia                                 | 1 (1.2%)            |
| Gastric antrum resection for insufficient weight loss              | 1 (1.2%)            |
| Duodenal ulcer   | 1 (1.2%)            |

SADI, single-anastomosis duodeno-ileal bypass; SG, sleeve gastrectomy; RYGB, Roux-en-Y gastric bypass

**Long-term complications and additional procedures in patients with follow-up longer than 12 months after SADI (N = 81)**

> *Obes Surg.* 2021 Jun;31(6):2691-2700. doi: 10.1007/s11695-021-05323-y. Epub 2021 Apr 9.

### Efficacy and Drawbacks of Single-Anastomosis Duodeno-Ileal Bypass After Sleeve Gastrectomy in a Tertiary Referral Bariatric Center

Arnaud Liagre <sup>1</sup>, Francesco Martini <sup>1</sup>, Yves Anduze <sup>1</sup>, Hubert Boudrie <sup>1</sup>, Olivier Van Haverbeke <sup>1</sup>, Stefano Valabrega <sup>2</sup>, Radwan Kassir <sup>3</sup>, Tarek Debs <sup>4</sup>, Niccolò Petrucciani <sup>5</sup>

**SADI after SG provides effective weight loss results in the short-term, even if in the present series the postoperative complication rate was non-negligible.**

**Further trials are needed to establish the more advantageous revisional bariatric procedure after failed SG.**

| Postoperative morbi-mortality              | N (%)      | Type of complication and treatment  |
|--|------------|---|
| Sepsis                                     | 14 (13.2%) |   |
| Abdominal abscess ± leak                   | 9 (8.4%)   | Anastomotic leak with a 6-cm abscess, sudden death at POD 5<br>Abdominal pain and fever at POD 20 with sudden death at home<br>Re-laparoscopy at POD 6, with placement of a Kehr tube into the orifice of the leak. Percutaneous drainage of a hepatic abscess, drainage of a pelvic abscess<br>Re-laparoscopy at POD 2, with placement of a Kehr tube into the orifice of the leak<br>Re-laparoscopy at POD 2 with washing and drainage. Placement of an endoscopic Kehr tube into the orifice of the leak for chronic duodeno-cutaneous fistula<br>Leak and torsion of the ileal anastomoti at POD 8. Laparotomy and conversion to OAGB<br>Re-laparoscopy at POD 6, with placement of a Kehr tube into the orifice of the leak<br>Diagnosis at POD 20 of a small leak by CT scan and choledocoduodenal fistula at endoscopy, treated by antibiotics<br>Posterior leak at POD 10 with gastroduodenal artery erosion treated by laparoscopy, endoscopy, and embolization. Complicated by anastomotic stenosis |
| Perianastomotic cellulitis without abscess | 4 (3.7%)   | Antibiotic treatment  |
| Bowel iatrogenic perforation               | 1 (0.9%)   | Re-operation  |
| Anastomotic bleeding                       | 1 (0.9%)   | Erosion of the gastroduodenal artery due to an anastomotic leak   |
| Anastomotic stenosis                       | 1 (.09%)   | Spontaneous resolution  |
| Total morbidity                            | 16 (15.1%) |   |

POD, postoperative day; OAGB, one-anastomosis gastric bypass; CT, computed tomography

#### Postoperative complications after single-anastomosis duodeno-ileal bypass

Obes Surg. 2018; 28(12): 3834–3842.

PMCID: PMC6223754

Published online 2018 Jul 31. doi: [10.1007/s11695-018-3429-z](https://doi.org/10.1007/s11695-018-3429-z)

PMID: [30066245](https://pubmed.ncbi.nlm.nih.gov/30066245/)

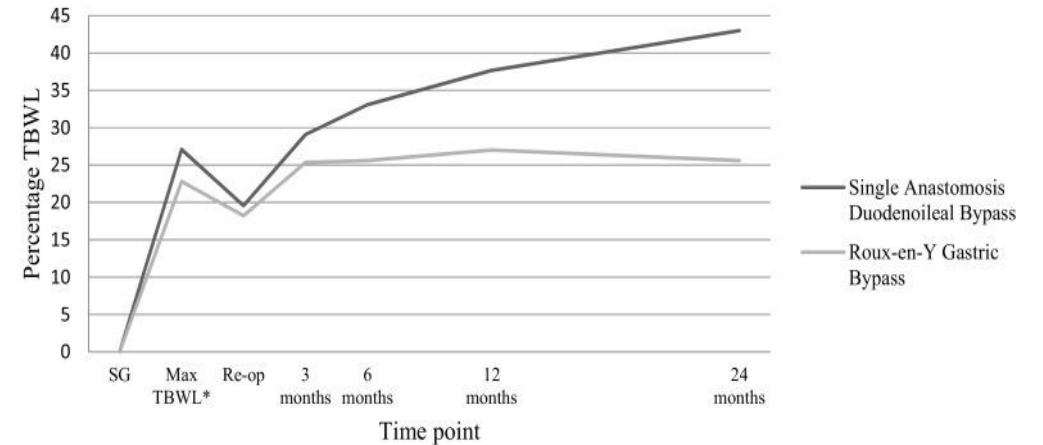
### Failed Sleeve Gastrectomy: Single Anastomosis Duodenoileal Bypass or Roux-en-Y Gastric Bypass? A Multicenter Cohort Study

Phillip J. Dijkhorst,<sup>1,2</sup> Abel B. Boerboom,<sup>2</sup> Ignace M. C. Janssen,<sup>1</sup> Dingeman J. Swank,<sup>3</sup> René M. J. Wiezer,<sup>4</sup> Eric J. Hazebroek,<sup>2</sup> Frits J. Berends,<sup>2</sup> and Edo O. Aarts<sup>2</sup>

|               | %TBWL at 3 months | %TBWL at 6 months | %TBWL at 12 months | %TBWL at 24 months |
|---------------|-------------------|-------------------|--------------------|--------------------|
| SADI (n = 66) | 11.3% (± 4.1)     | 16.5% (± 5.8)     | 21.5% (± 8.1)      | 26.4% (± 10.4)     |
| RYGB (n = 74) | 5.9% (± 5.3)      | 7.8% (± 6.8)      | 8.9% (± 8.7)       | 6.9% (± 11.3)      |
| P value       | < .001            | < .001            | < .001             | < .001             |

(SADI single anastomosis duodenoileal bypass, RYGB Roux-en-Y gastric bypass, n is given in brackets)

%TBWL following sleeve gastrectomy and revisional surgery





Single Anastomosis Duodenoileal Bypass or Roux-en-Y Gastric Bypass After Failed Sleeve Gastrectomy: Medium-Term Outcomes

Phillip J. Dijkhorst,<sup>1</sup> May Al Nawas,<sup>2</sup> Laura Heusschen,<sup>3</sup> Eric J. Hazebroek,<sup>3</sup> Dingeman J. Swank,<sup>4</sup> René M.J. Wiezer,<sup>2</sup> and Edo O. Aarts<sup>5</sup>

### METHODS

```

            graph TD
            A[141 sleeve gastrectomy patients] --> B[66 SADI-S]
            A --> C[78 RYGB]
            B --> D[Insufficient weight loss 100%]
            C --> E[Insufficient weight loss 60%]
            C --> F[Functional problem with SG 40%]
            
```

### RESULTS

**SADI-S resulted in more than double the amount of weight loss**

|  | SG  | Max WL SG* | Re-op | 1 Year | 2 Years | 3 Years | 4 Years | 5 Years |
|--|-----|------------|-------|--------|---------|---------|---------|---------|
| — Single Anastomosis Duodenoileal Bypass | 0.0 | 27.1       | 18.0  | 37.3   | 39.0    | 37.1    | 35.2    | 28.4    |
| — Roux-en-Y Gastric Bypass               | 0.0 | 23.1       | 17.4  | 26.8   | 25.7    | 22.4    | 22.7    | 17.9    |

\*Time

**No difference in:**

- Quality of life
- Complications
- Micronutrient deficiencies

### CONCLUSIONS

- Conversion of SG to SADI-S leads to significantly more total weight loss compared to RYGB surgery with no difference in quality of life scores, complication rates or micronutrient deficiencies
- When GERD in sleeve patients has to be resolved, RYGB provides adequate outcomes.

Revisional Procedures after Sleeve Gastrectomy for Weight Recurrence or Inadequate Weight Loss: An Analysis of the MBSAQIP Database

Karl Hage, Conceptualization, Formal analysis, Data curation, Writing – original draft,<sup>1</sup> Juan S. Barajas-Gamboa, Data curation, Writing – original draft,<sup>2</sup> Gustavo Romero-Velez, Data curation, Writing – original draft,<sup>3</sup> Matthew Allemang, Validation, Writing – review & editing, Supervision,<sup>3</sup> Salvador Navarrete, Validation, Writing – review & editing, Supervision,<sup>3</sup> Ricard Corcelles, Validation, Writing – review & editing, Supervision,<sup>3</sup> John Rodriguez, Validation, Writing – review & editing, Supervision,<sup>2</sup> Omar M. Ghanem, Validation, Writing – review & editing, Supervision,<sup>1</sup> Matthew Kroh, Validation, Writing – review & editing, Supervision,<sup>3</sup> and Jerry T. Dang, Conceptualization, Software, Formal analysis, Investigation, Data curation, Writing – original draft, Writing – review & editing<sup>3,\*</sup>

|   | RYGB         | SADI         | BPD-DS       | p-Value |
|---|--------------|--------------|--------------|---------|
| n (%)                                   | n = 5734     | n = 642      | n = 1012     |         |
| Operative time, minutes mean ± SD       | 141.0 (66.1) | 149.1 (67.8) | 148.8 (63.0) | <0.001  |
| Robotic-assisted                        | 1233 (21.5)  | 194 (30.2)   | 353 (34.9)   | <0.001  |
| Concurrent paraesophageal hernia repair | 1389 (24.2)  | 98 (15.3)    | 145 (14.3)   | <0.001  |
| Concurrent lysis of adhesions           | 118 (2.1)    | 36 (5.6)     | 8 (0.8)      | <0.001  |
| Length of stay, days                    |              |              |              |         |
| median (interquartile range)            | 1 (1)        | 1 (1)        | 1 (1)        | 0.008   |
| Anastomotic leak                        | 31 (0.5)     | 10 (1.6)     | 13 (1.3)     | 0.001   |
| Postoperative bleeding                  | 91 (1.6)     | 6 (0.9)      | 10 (1.0)     | 0.177   |
| Reoperation                             | 139 (2.4)    | 17 (2.7)     | 27 (2.7)     | 0.862   |
| Non-operative intervention              | 112 (2.0)    | 9 (1.4)      | 18 (1.8)     | 0.601   |
| Readmission                             | 365 (6.4)    | 32 (5.0)     | 59 (5.8)     | 0.343   |
| Cardiac events                          | 5 (0.1)      | 1 (0.2)      | 0 (0.0)      | 0.525   |

Comparison of serious complications and mortality rates between these procedures within 30 days.

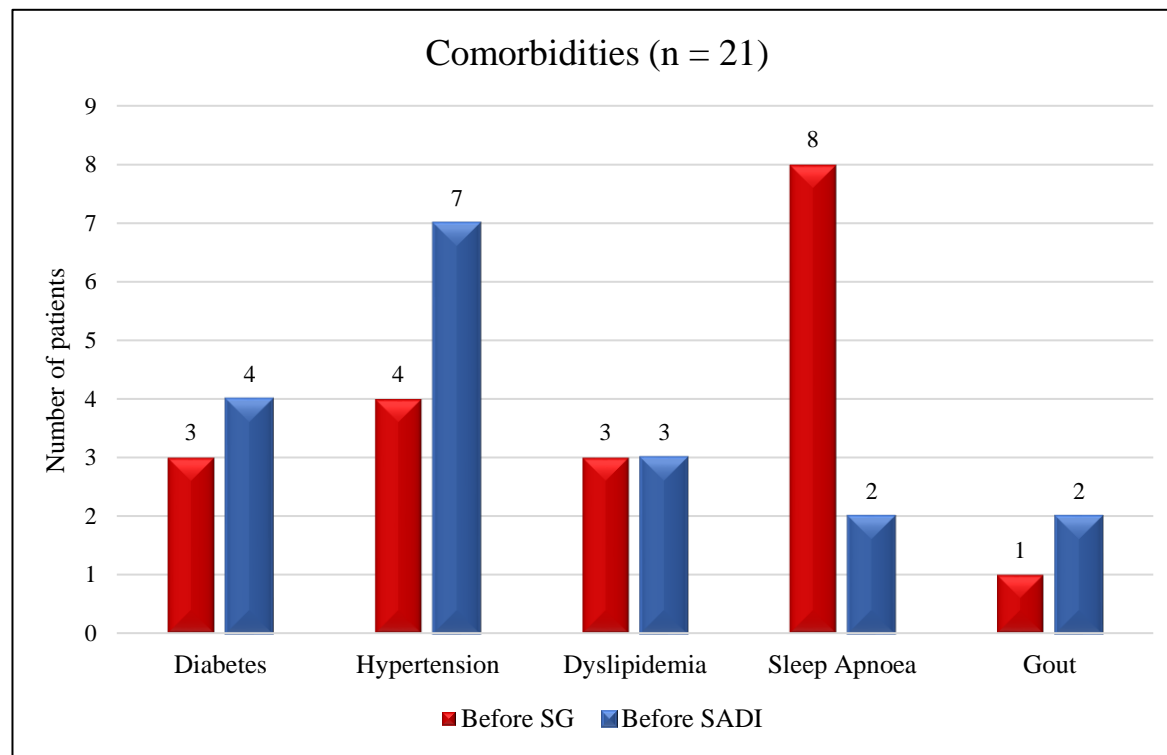
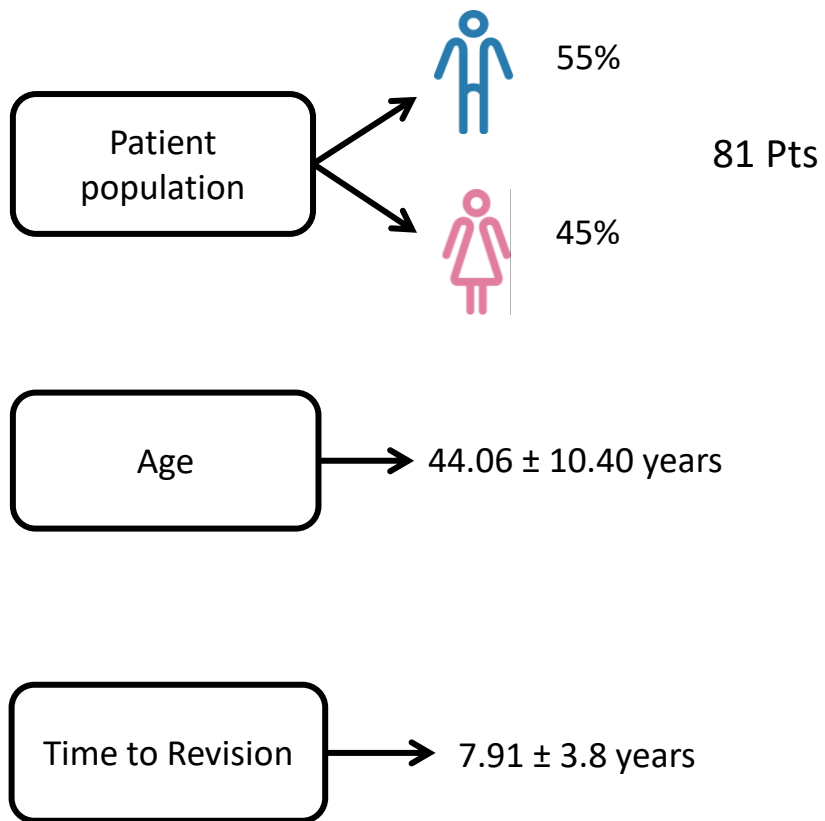
|                              | RYGB      | SADI     | BPD-DS   | p-Value |
|------------------------------|-----------|----------|----------|---------|
| n (%)                        | n = 5734  | n = 642  | n = 1012 |         |
| Pneumonia                    | 23 (0.4)  | 1 (0.2)  | 3 (0.3)  | 0.575   |
| Unplanned intubation         | 8 (0.1)   | 0 (0.0)  | 2 (0.2)  | 0.558   |
| Acute kidney injury          | 6 (0.1)   | 0 (0.0)  | 0 (0.0)  | 0.421   |
| Venous thromboembolism       | 18 (0.3)  | 2 (0.3)  | 4 (0.4)  | 0.914   |
| Deep surgical site infection | 56 (1.0)  | 10 (1.6) | 18 (1.8) | 0.049   |
| Wound disruption             | 5 (0.1)   | 0 (0.0)  | 1 (0.1)  | 0.746   |
| Sepsis                       | 21 (0.4)  | 0 (0.0)  | 5 (0.5)  | 0.236   |
| Cerebrovascular accident     | 0 (0.0)   | 1 (0.2)  | 0 (0.0)  | 0.005   |
| Serious complications        | 337 (5.9) | 32 (5.0) | 61 (6.0) | 0.628   |
| Death                        | 6 (0.1)   | 0 (0.0)  | 1 (0.1)  | 0.715   |

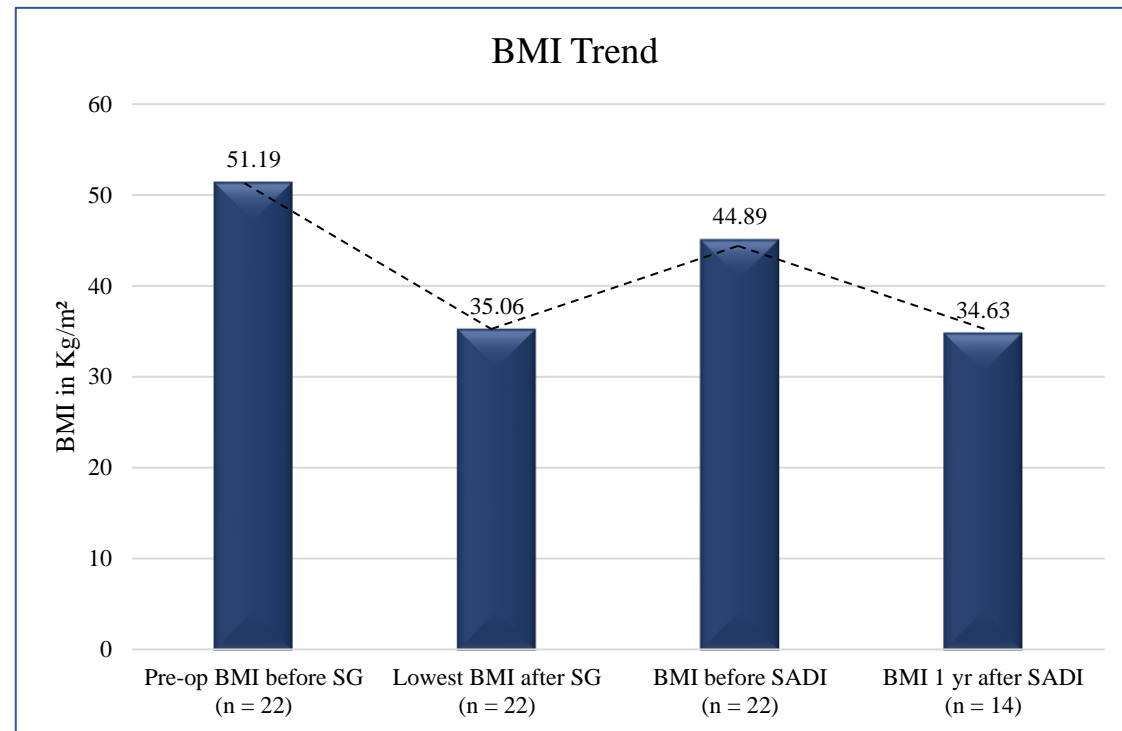
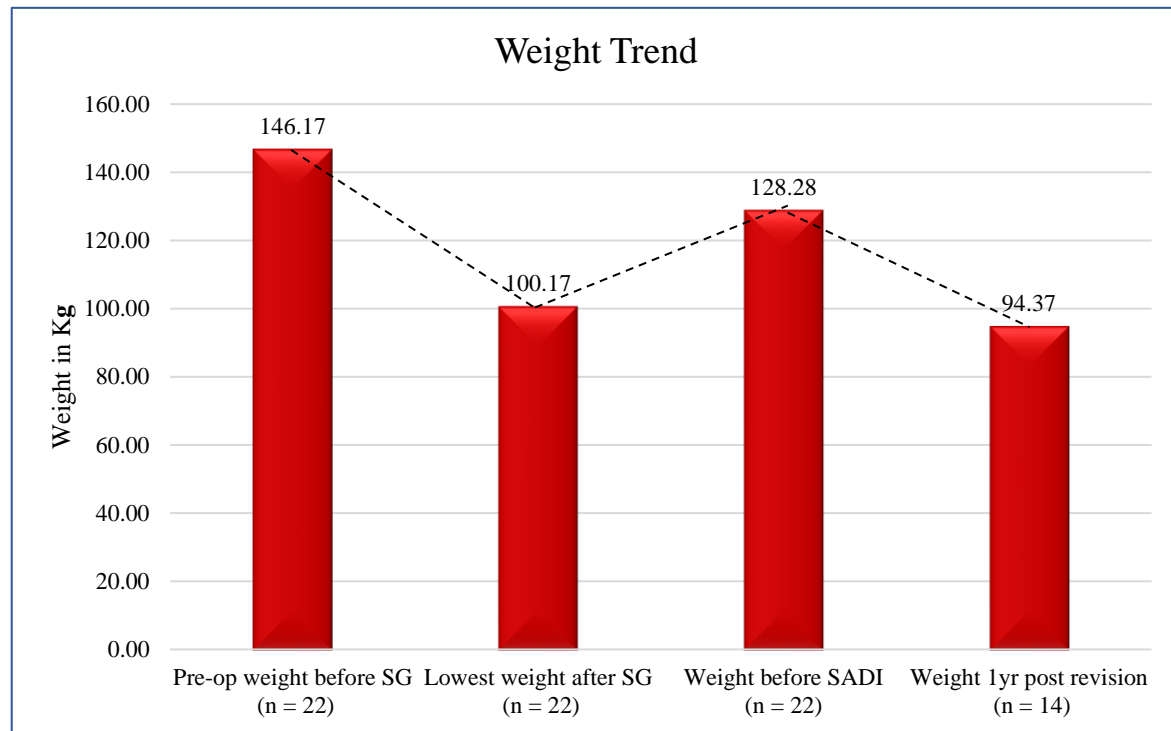
RYGB, conversion from sleeve gastrectomy to Roux-en-Y gastric bypass; SADI, conversion from sleeve gastrectomy to single-anastomosis duodeno-ileal bypass; BPD-DS, conversion from sleeve gastrectomy to biliopancreatic diversion with duodenal switch.

The study indicated a similar safety profile for revisional RYGB, SADI, and BPD-DS, with comparable 30-day complications and mortality rates.

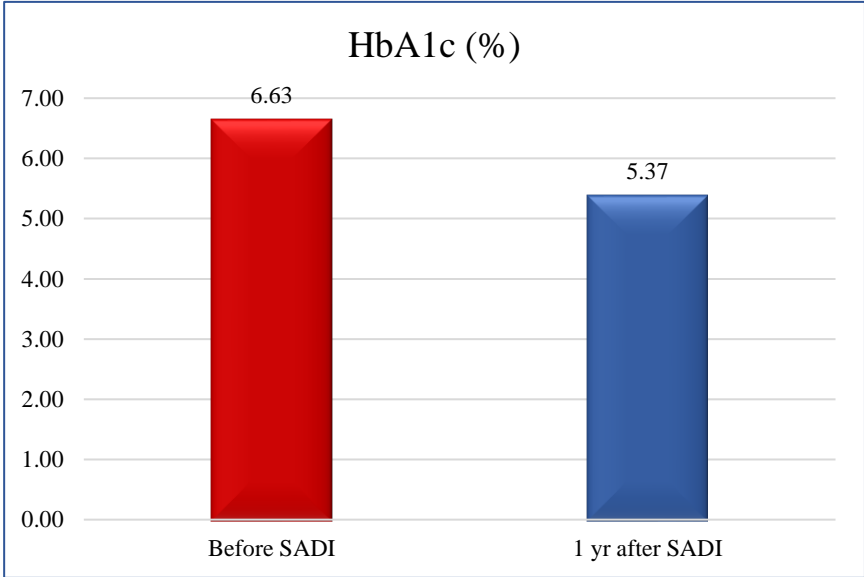
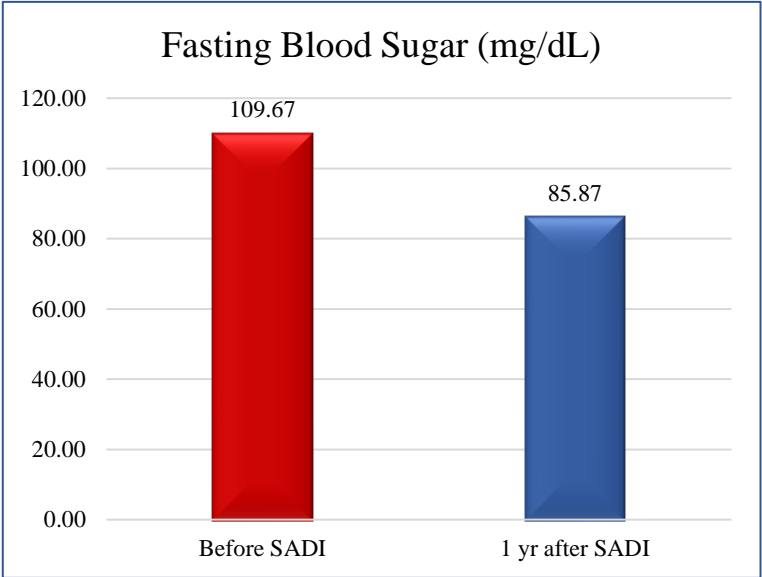
However, SADI and BPD-DS patients had longer operative time and higher leak rates.

Demographic data



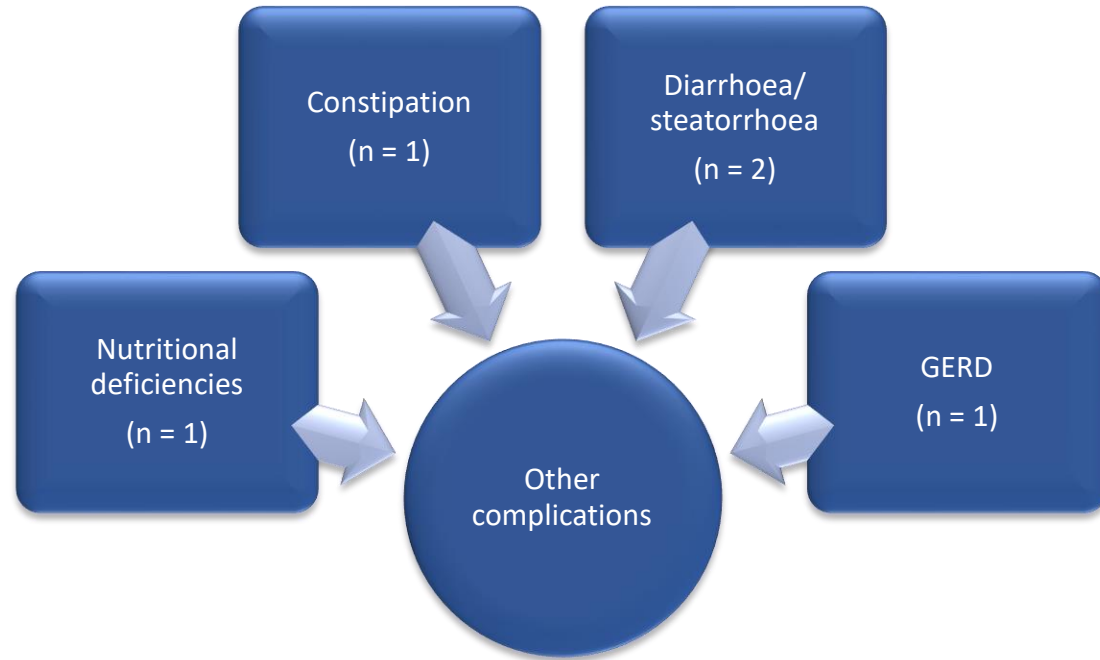


In patients with T2DM before SADI

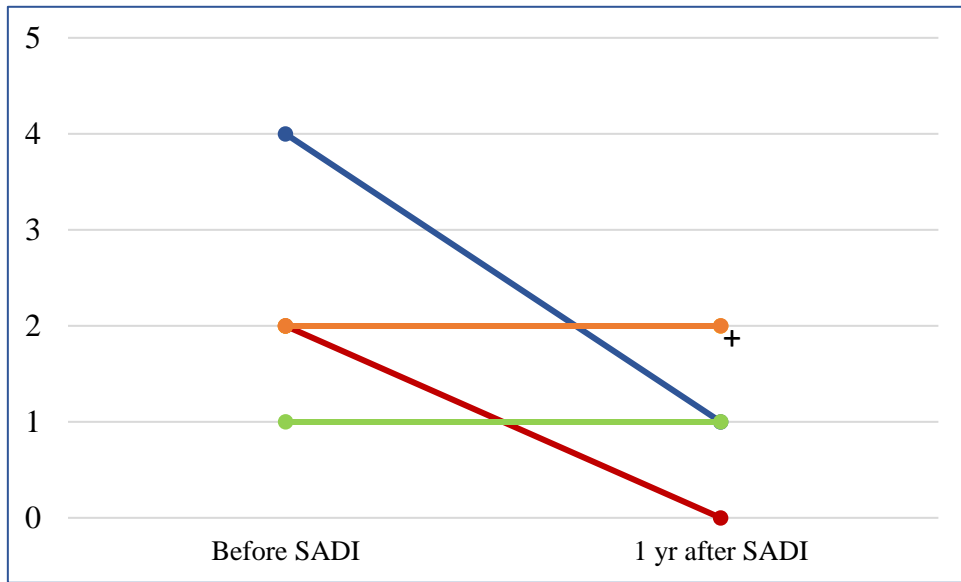


Early Post operative complications {  
• None

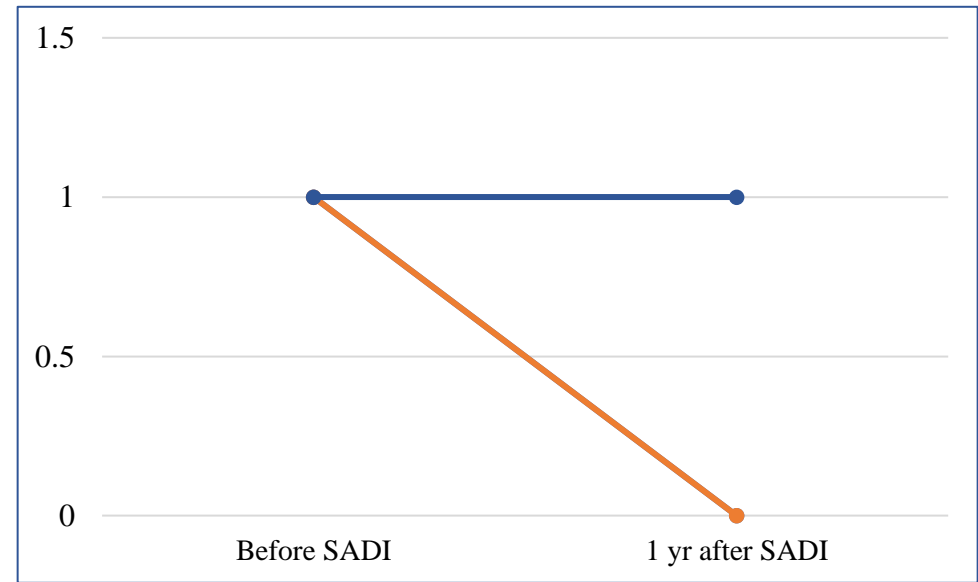
Mortality {  
• 1 Due to Covid-19

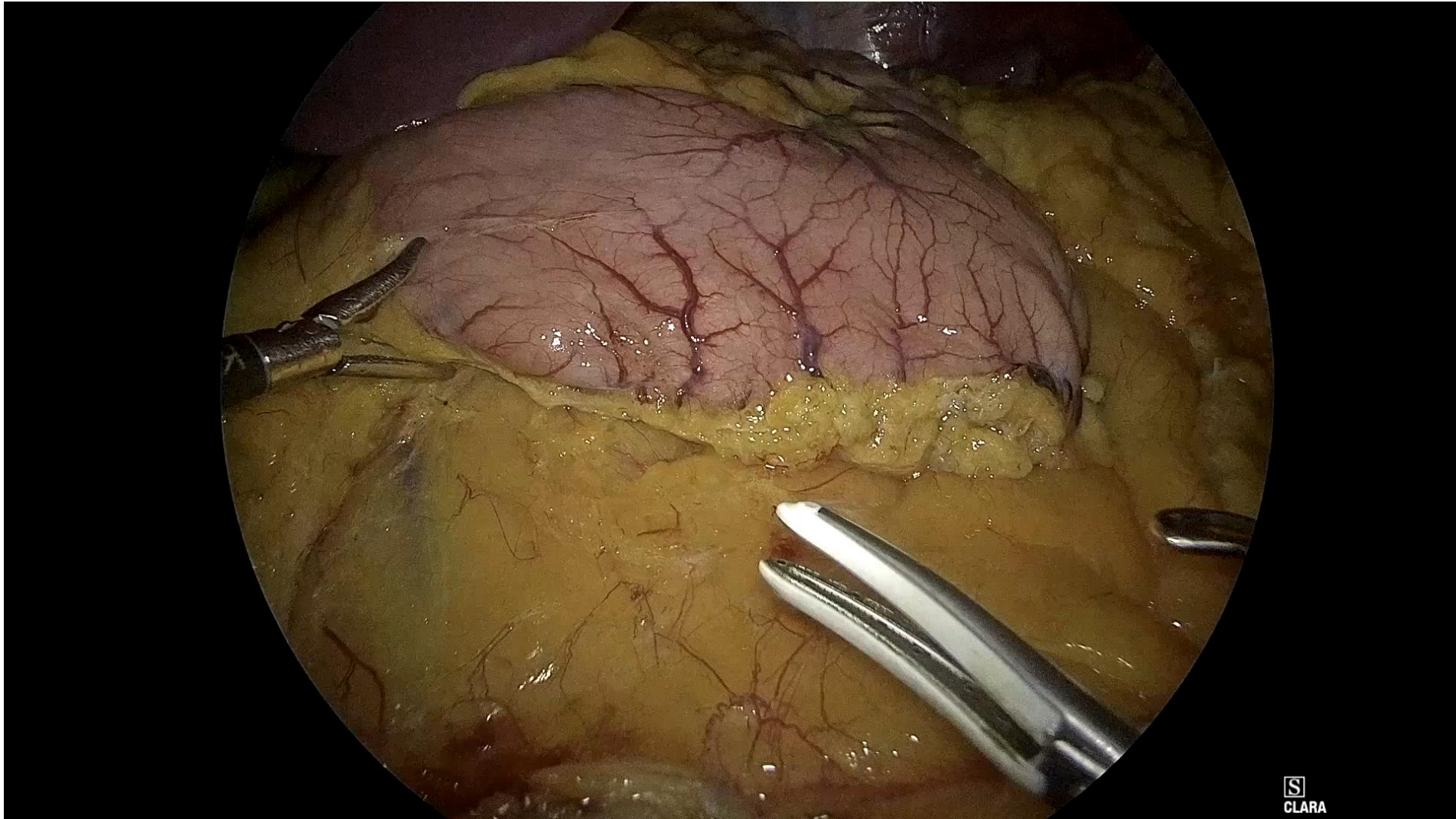


In patients with HTN before SADI



In patients with Dyslipidemia before SADI









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