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## Systematic Review of Five-Year Outcomes after Primary SADI-S

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

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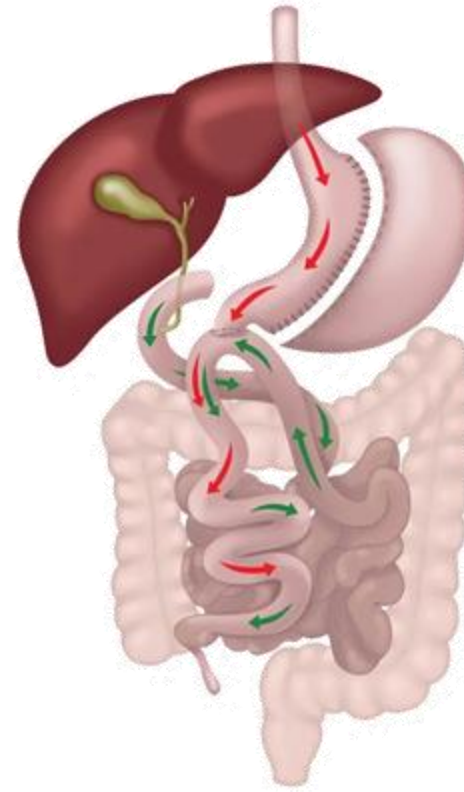
# Disclosure Slide

Nothing to disclose



# Background and Objective – SADI-S

- 2007, Dr Sanchez-Pernaute and Dr Torres (Madrid, Spain)
- Simplified variation of the duodenal switch – single anastomosis
- 2020, approved by ASMBS and IFSO
- Substantial weight loss and lower complication than DS



**Systematic review of the literature on 5-year postoperative outcomes of SADI-S as a primary metabolic and bariatric surgery**



# Material and Methods

|                |                                                                                                                                                                                                                                                                              |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identification | A total of 167 articles were identified after excluding 3 duplicates                                                                                                                                                                                                         |
| Screening      | Initial screening by title and abstract showed that only 13 articles reported 5-year outcomes after SADI-S as a primary surgery                                                                                                                                              |
| Eligibility    | Nine articles were excluded:<br>5 articles were excluded for using the same database.<br>2 articles were excluded for including SADI-S as a second stage<br>1 article was excluded for not including laparoscopic surgery<br>1 article was excluded for not including SADI-S |
| Inclusion      | Finally, a total of 4 articles were included for review<br>Initial sample (n) = 1,088<br>Five-year follow-up (n) = 326                                                                                                                                                       |

PubMed Database

**“Long Term Outcomes” AND  
“SADI-S” OR “Single  
Anastomosis Duodeno-Ileal  
with Sleeve Gastrectomy”  
OR “OADS” OR “One  
Anastomosis Duodenal  
Switch.”**



# Results and Conclusion

**Table 1** Demographic characteristics of the study population

| Article                      | Baseline sample | Study design         | Mean age (years) | Women <i>n</i> (%) | Mean BMI kg/m <sup>2</sup> | HTN <i>n</i> (%) | DM <i>n</i> (%) | DLP <i>n</i> (%) | OSAHS <i>n</i> (%) |
|------------------------------|-----------------|----------------------|------------------|--------------------|----------------------------|------------------|-----------------|------------------|--------------------|
| Sánchez-Pernaute et al. [19] | 164             | Prospective cohort   | 47 (22–71)       | 99 (60.3%)         | 45'8 (3–67)                | 91 (55.4)        | 101 (61.5)      | 118 (71'9)       | 81 (49.3)          |
| Surve et al. [20]            | 750             | Retrospective cohort | 49.3 (± 13.1)    | 473 (63)           | 50 (± 2.6)                 | 377 (50.2)       | 300 (40)        | 263 (35)         | 347 (46.2)         |
| Osorio et al. [21]           | 130             | Prospective cohort   | 46.9 (± 9.5)     | 94 (72.3)          | 51.4 (± 6)                 | 73 (56.2)        | 40 (30.8)       | 39 (30)          | 64 (49.2)          |
| Pujol-Gebelli et al. [22]    | 44              | Prospective cohort   | 43               | 31 (70.4)          | 52.9 (± 2.6)               | 27 (61)          | 14 (32.3)       | 15 (35.5)        | 15 (35.3)          |

**Table 2** Five-year outcomes in terms of weight loss and resolution of comorbidities

| Article                      | 5-year sample | Loss to follow-up (%) | BMI at 5 years <i>n</i> kg/m <sup>2</sup> (SD) | TWL at 5 years kg/m <sup>2</sup> (SD) | EWL at 5 years kg/m <sup>2</sup> (SD) | HTN resolution at 5 years % | DM2 resolution at 5 years % | DLP resolution at 5 years % | OSAHS resolution at 5 years % |
|------------------------------|---------------|-----------------------|------------------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|
| Sánchez-Pernaute et al. [19] | 139           | 15.2                  | 28                                             | 38.8                                  | 87.8                                  | 53.8                        | 76.2                        | 50.8                        | 87.7                          |
| Surve et al. [20]            | 109           | 85.5                  | 32.1 (7.5)                                     | 34.9 (10.9)                           | 75.1 (26.5)                           | 60.7                        | 70                          | 73.3                        | 46.3                          |
| Osorio et al. [21]           | 56            | 56.9                  | 33.4 (6.3)                                     | 27.3 (13.4)                           | 60 (28.9)                             | 84.9                        | 90                          | 84.6                        | 81.3                          |
| Pujol-Gebelli et al. [22]    | 36            | 18.2                  | 33.3 (5.2)                                     | 36                                    | 68.6                                  | 85.1                        | 85.7                        | 73.3                        | 73.3                          |

*SADI-S is an effective primary bariatric procedure with sustained weight loss and high metabolic resolution at 5 years*



*Thanks you!*

*Any questions?*

