## MULTICENTRIC INTERNATIONAL STUDY TO EVALUATE PERFORMANCE AND SAFETY OF LAPAROSCOPIC ADJUSTABLE GASTRIC BANDING (HELIOGAST)

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#### Introduction

- Many surgical techniques are routinely used in patients with severe obesity (BMI> 35). Laparoscopic adjustable gastric banding (LAGB) is the unique truly reversible surgical option effective on morbid obesity
- The objective of this multicenter retrospective study is to measure LAGB efficacy and tolerance in current practice
- Primary objective: to measure the effectiveness of LAGB (Heliogast®) at 12 and 24 months by excess weight loss (EWL) measurement
- Secondary objective: safety of the device by measuring early and late complications observed on the band and the implantable chamber, as well as the rate of reintervention

#### **Methods**

- Patients enrolled (01/2018 12/2022)
- **M/F ratio** 113/966
- **Mean age (range)** 41.8 yrs (14-67)
- Mean BMI (range) 38.1 (31-56)

- Heliogast® was proposed to any patient respecting the indications for treatment by adjustable gastric banding
- Patients were included in accordance with the usual practice of the investigating centers



# Results (per protocol)

#### Follow-up

- ✓ 12 months 805 (74%)
- ✓ 24 months 527 (49%)

#### Mean EWL (range)

- ✓ 12 months 69% (19-316)
- ✓ 24 months 54% (-6-188)

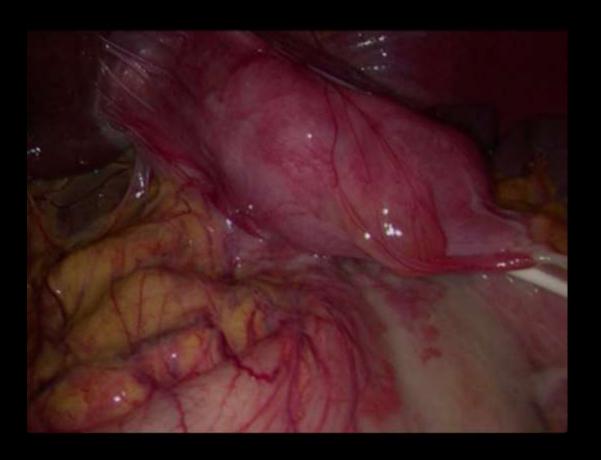
#### Mean BMI (range)

- ✓ 12 months 29 (21-37)
- ✓ 24 months 31 (22-48)

### **Complications**

•	Mortality	0
•	Band slippage  ✓ Repositioning  ✓ Removal	64 (6%) 3 63
•	Port infection (removal, medical treatment, re-implantation)	11 (1%)
•	Band erosion/intraluminal migration	4 (0.4%)
•	Port twisting → repositioning	19 (1.7%)
•	Band intolerance (vomiting, GERD) → removal	32 (3%)
•	Transient port pain	12 (1%)

## **LAGB** removal



## **Endoscopic removal**



#### **Conclusions**

- Efficacy was in line with literature data on adjustable gastric banding
- More than 90% of patients kept their band implanted with satisfaction up to 24 months, with mild and transient side effects
- Fast and easy procedure for implantation of the band and the implantable port
- Gastric band easily unlocked and retrieved when removal is necessary
- Double-balloon of the HAGA allows a low pressure on the stomach wall (low intraluminal migration rate)
- Low rate of complications and no unknown adverse effects