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Keywords:

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L. Rebibo et al. / Surgery for Obesity and Related Diseases 1 (2018) 00-00

Conclusion: Re-SG is feasible, but it requires adaptation of the surgical procedure to decrease complications. Results on weight loss are acceptable, but the best indications for re-SG were a gastric volume > 350 mL and in the case of weight regain with the exception of technical failure of the primary SG. (Surg Obes Relat Dis 2018; 1:00-00.) © 2018 American Society for Metabolic and Bariatric Surgery. All rights reserved.

Sleeve gastrectomy; Repeat sleeve gastrectomy; Gastric leak; Postoperative complications; Weight loss; Risk factor

120 Revisional surgery after bariatric surgery is a hot topic. 121 Weight regain is observed after all types of bariatric surgery and can be explained by several common causes, such as 122 the natural history of the surgical procedure, errors in the 123 patient's eating habits, medications, and other factors. 124 Sleeve gastrectomy (SG) has become increasingly popular 125 over recent years due to its good results [1,2], its low 126 postoperative complication and mortality rates [3], and the 127 decreased long-term complication rate (especially mechan-128 ical complications and vitamin deficiency) compared with 129 gastric banding, Roux-en-Y gastric bypass (RYGB) and 130 duodenal switch (DS). SG is currently the most commonly 131 performed surgical procedure for the treatment of morbid 132 obesity in France [4] and more recently in the United States 133 [5]. A recent review of the literature showed that the mean 134 percentage of excess weight loss (EWL) 5 years after SG 135 136 was 58.4% (range, 40%-86%) [6]. Arman et al. [7], in their long-term follow-up of patients undergoing SG (first 137 patients of their experience), showed a revisional rate of 138 21% for insufficient weight loss or weight regain. 139

Various procedures can be proposed in these situations, 140 such as RYGB or DS. Repeat-SG (Re-SG) was first 141 described in 2006 by Baltasar et al. [8], and few series 142 have been published since this initial report [9-11]. Studies 143 concerning re-SG have reported contradictory results in 144 terms of morbidity rates [12], with limited data on weight 145 loss and no evaluation of the best indications for re-SG. 146

The objective of this study was to evaluate the results of 147 re-SG performed for insufficient weight loss or weight 148 regain after SG and to evaluate short- and medium-term 149 outcomes to define the best indications for re-SG. 150

152 **Methods**

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Population

155 A retrospective analysis was performed on prospective 156 data (ACOS database) on a group patients undergoing 03 157 re-SG (n = 46) between June 2007 and March 2016. 158

Preoperative screening

The indication for bariatric surgery was validated in 161 accordance with French national guidelines and a multidisci-162 plinary obesity staff meeting [13]. The patient's endocrine 163 status was systematically assessed to detect thyroid and adrenal 164 diseases requiring treatment before surgery. A psychiatric or 165

psychological assessment was used to screen for personality 166 disorders that would contraindicate (or that could be decom-167 pensated by) bariatric surgery. Preoperative nutritional support 168 consisting of multiple consultations with a dietician and 169 participation in obesity surgery-specific workshops was rou-170 tinely provided. Hiatal hernia, Barrett esophagus, and 171 Helicobacter pylori infections were evaluated by esophagogas-172 troduodenoscopy. Pulmonary function tests, including sleep 173 polysomnography, were used to screen for obstructive sleep 174 apnea syndrome in all patients before surgery. Metabolic 175 syndrome was defined according to the National Cholesterol 176 Education Program's Adult Treatment Panel III report when 177 3 of 5 characteristics were present: abdominal obesity, given as 178 waist circumference > 102 cm in male patients and > 88 cm 179 in female patients; triglycerides >150 mg/dL; high-density 180 lipoprotein cholesterol <40 mg/dL in male patients and <50181 mg/dL in female patients; blood pressure >130/>85 mm Hg; 182 and fasting blood glucose $\geq 110 \text{ mg/dL}$. Gastric volumetry was 183 routinely performed before proposing re-SG. 184

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Gastric volumetry procedure

Residual gastric volume was measured by filling the 188 gastric remnant with carbon dioxide, as follows. The patient 189 was asked to drink a sodium bicarbonate solution (4 g in 190 100 mL of water) followed by a tartaric acid solution (4 g in 191 100 mL of water). Low-dose computed tomography acquis-192 itions were performed 30 and 60 seconds after the tartaric 193 acid intake. Residual gastric volume was defined as the 194 volume situated between the gastroesophageal junction and 195 the pylorus (i.e., anatomic structures that can be easily 196 identified on computed tomography scan) [14]. The volume 197 was measured separately by 2 radiologists using Myrian 198 software (Microsoft Inc., Redwood City, CA) and expressed 199 in milliliters. Differences of opinion between the 2 radiol-200 ogists were resolved by consensus: the larger of the 2 201 estimated volumes was considered to be closest to the 202 patient's true residual gastric volume. 203

Definition of gastric dilation after SG

Two types of dilation after SG are described [10]. 207 Primary dilation was defined as a large upper gastric pouch 208 without homogenous dilation of the gastric tube. Most of 209 these cases are due to incomplete dissection of the fundus 210 during primary SG (operative difficulties due to large left

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