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66 complication rate than DS [3] or RYGBP [4,5] because of the67 absence of anastomosis [6].

The main complication after SG is GL, with a GL rate of 68 2.2% according to a recent meta-analysis [7]. The main 69 problem associated with GL is the difficulty of treatment, 70 suggesting that this procedure may be too dangerous [8]. 71 The difficulty of management of this type of complication is 72 reflected by the various types of endoscopic procedures 73 74 proposed as treatment for GL [9,10] and the absence of adequate material to ensure a significant reduction of gastric 75 76 leak rates [11,12].

SG has become very popular and is currently the surgical 77 procedure most commonly performed for treatment of 78 79 morbid obesity in France [13]. It is a relatively short procedure with a mean operating time of 100 minutes 80 [14]. Nevertheless, the complexity of sleeve gastrectomy is 81 probably underestimated and it is wrongly considered to be 82 an easy bariatric surgical technique. With a GL rate of 2.2%83 after SG, a large number of patients all over the world 84 consequently develop postoperative GL. According to the 85 data of the literature, most of these patients (85%-90%) are 86 cured by an endoscopic procedure [9,15]. However, no data 87 are available concerning patients with healed GL, partic-88 ularly in terms of the results on weight loss, correction of 89 obesity-related co-morbidities, and quality of life. 90

The objective of the present study was to evaluate the
results of patients with postoperative GL after SG compared
with patients undergoing SG with no postoperative complications in terms of weight loss, resolution of co-morbidities,
and quality of life 1 year after SG.

97 Materials and methods

99 Population

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This study was based on retrospective review of a
prospective database comprising all patients with GL after
SG (GL group) performed in our institution between March
2004 and October 2012.

The SG-GL group was matched 1:2 with another group of patients selected from among 899 patients undergoing first-line or second-line SG (control group) during the same period (i.e., March 2004 to October 2012) in our institution.

109 Inclusion criteria

111 Patients included in the study had to meet all of the following criteria: morbid obesity according to the French 112 definition [16], first-line or second-line SG, postoperative 113 GL requiring a reoperation and/or endoscopic procedures, 114 and patients with a minimum follow-up of 12 months after 115 performing SG. Patients with GL after SG and with follow-116 up < 12 months, GL after other bariatric surgical proce-117 dures (gastric banding [GB], duodenal sleeve [DS], and 118 Roux-en-Y gastric bypass [RYGB]), patients undergoing 119 SG with postoperative complications other than GL and 120

requiring surgical (postoperative bleeding) or endoscopic 121 (gastric stricture) procedures, and patients with gastrobronchial fistula and chronic gastric fistula were excluded 123 (Fig. 1). F1124

Indication for surgery

The indication for bariatric surgery in our institution was 128 validated by a multidisciplinary staff meeting in accordance 129 with French guidelines [16]. All patients attended a surgical 130 consultation and a nutritional and dietetic consultation, and 131 pulmonary, endocrine, and psychological assessments were 132 performed. Screening for hiatus hernia and Helicobacter 133 pylori infections was performed gastroscopically. An over-134 night sleep test was performed to screen for obstructive 135 sleep apnea syndrome (OSA). 136

Sleeve gastrectomy procedures

139 The first-line SG technique was described by Dhahri 140 et al. [17]. A 34F bougie was used when stapling the greater 141 curvature of the stomach. Gastric section started 6 cm above 142 the pylorus (antrum). For patients in whom SG was 143 performed between January 2004 and December 2009, 144 stapling was performed with an Endo GIA Universal XL 145 60 with two 3.5-mm green reloads and then three or four 146 4.8-mm blue reloads (Covidien France SAS, Elancourt, 147 France). For patients in whom SG was performed between 148 January 2010 and February 2012, Tri-Staple purple reloads 149 (Covidien) were used [18]. A methylene blue test was 150 always performed at the end of the procedure. All patients 151 underwent an upper gastrointestinal tract examination with 152 oral contrast agent (diatrizoic acid) on postoperative day 153 (POD) 1 to check for the absence of complications and to 154 authorize oral refeeding. Between 2004 and 2009, a 10F 155 drain was always left in place along the gastric resection 156 line. Drainage was not used from 2010 onward. The 157 technique for simultaneous gastric banding removal and 158 SG in the same procedure and repeat SG has been described 159 previously [19,20]. Second-line SG was the SG procedure 160 with previous history of bariatric surgery (gastric banding 161 or SG).

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Definition and management of gastric leaks

The clinical presentation, time to onset, and site of gastric 165 leaks on the staple line were classified according to the 166 modified U.K. Surgical Infection Study Group definitions 167 [21,22]. The patient's clinical presentation was further 168 described in terms of systemic signs of inflammation 169 beats/min] hyperthermia (tachycardia [>100 and 170 $[>38^{\circ}C]$), peritonitis (diffuse abdominal tenderness), pul-171 monary symptoms (cough and expectoration), and intra-172 abdominal abscess (localized abdominal tenderness). We 173 distinguished between early-onset gastric leakage (from 174 POD 1 to POD 7) and late-onset gastric leakage (\geq POD 175 Download English Version:

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