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65 surgeries and increasing number of abdominoplasties, more morbidly obese patients with a history of prior abdominal 66 wall body contouring are undergoing bariatric surgery. 67

A history of a prior abdominoplasty poses technical 68 challenges during laparoscopic procedure. The challenges 69 are attributed to decreased abdominal wall compliance and 70 the resultant narrower working space available during 71 72 laparoscopy. Morbid obesity can worsen the situation by 73 increasing the abdominal wall thickness.

A few reports address laparoscopic techniques in patients 74 with prior abdominal wall reconstruction [5–9]. However, 75 there is no published study comparing the laparoscopic 76 outcomes of these patients with the outcomes of patients 77 78 with no prior abdominoplasty. The present study aimed to evaluate the operative and clinical outcomes in patients with 79 prior abdominoplasty undergoing laparoscopic sleeve gas-80 trectomy (LSG) and compare them with the results in 81 patients undergoing weight loss surgery with intact 82 abdomens. 83

85 Methods and materials 86

Study design

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88 In this case control study, our hospital database was 89 retrospectively reviewed to retrieve data on patients who 90 underwent LSG between July 2014 and April 2015 in the 91 metabolic and bariatric department of Hamad Medical 92 Corporation in Doha, Qatar. The institutional review board 93 of our hospital approved the study protocol. All the 94 surgeries were performed by fellowship-trained surgeons, 95 who were well beyond their learning curve, using a stand-96 ardized technique. 97

Patients

100 The inclusion criteria were morbidly obese women aged 101 between 18 and 65 years old who underwent LSG. 102 Consecutive patients with prior abdominoplasty who under-103 went LSG (study group) and patients with no prior 104 abdominal wall reconstruction who underwent the same 105 weight loss procedure (control group) were recruited. 106 Revisions or conversions to another procedure were 107 excluded from analysis. 108

Surgical technique of abdominoplasty

All of the patients underwent surgery using the same 111 abdominoplasty technique. After marking the anatomic 112 features in an upright position, the patient assumed a supine 113 position. General anesthesia was administered. A Pfannen-114 115 stiel incision was made and the superior skin flap and subcutaneous tissue were undermined all the way up to the 116 costal margin laterally and the xiphoid process medially. 117 The umbilicus was circumscribed and exteriorized. A 118 vertical rectus fascial plication was achieved to correct the 119

diastasis of the rectus abdominis muscles using permanent 120 monofilament sutures. In a semiflexed position, the excess 121 skin and adipose tissue were excised, and the flap was then 122 sutured to the inferior skin incision in 2 layers. Two closed 123 drains were placed. 124

Laparoscopic sleeve gastrectomy in patients without prior 125 abdominoplasty. A 1.5-cm skin incision was made in the 126 umbilicus for the initial 15-mm port using an open 127 technique. Pneumoperitoneum was achieved to a pressure of 15 mm Hg. A 12-mm trocar was inserted in the left upper quadrant and a 5-mm trocar in the right upper quadrant. A 130 Nathanson liver retractor was inserted through a 5-mm 131 subxiphoid skin puncture without port placement. When 132 necessary, an additional 5-mm port was employed in the left 133 upper quadrant. 134

The technique of the sleeve gastrectomy was similar as 135 previously described [10,11]. Using a 5-mm LigaSure 136 (Medtronic, Minneapolis, MN), the greater curvature of 137 the stomach was mobilized, beginning from a point 6 cm 138 proximal to the pylorus, staying close to the wall of the 139 stomach, going all the way up the greater curvature to the 140 angle of His, and dividing both the gastrocolic and gastro-141 splenic ligaments. Retrogastric adhesions were taken down 142 to allow complete mobilization of the stomach, eliminate 143 any redundant posterior wall of the sleeve, and exclude the 144 fundus from the gastric sleeve. 145

Once the stomach was completely mobilized, a 34 F 146 orogastric tube was inserted orally into the pylorus and 147 placed against the lesser curvature. This calibrated the size 148 of the gastric sleeve, prevented constriction at the gastro-149 esophageal junction and incisura angularis, and provided a 150 uniform shape for the entire stomach. The gastric trans-151 ection was initiated at a point 6 cm proximal to the pylorus, 152leaving the antrum, and preserving gastric emptying. A long 153 laparoscopic reticulating 60-mm XL endo-GIA stapler with 154 green cartridge 4.8-mm staples and a synthetic absorbable 155 buttressing material was inserted through the 15-mm trocar 156 in a cephalad direction. The stapler was fired consecutively 157 along the length of the orogastric tube until the angle of His 158 was reached. Care was taken not to narrow the stomach at 159 the incisura angularis and to inspect the stomach anteriorly 160 and posteriorly to ensure there was no redundant posterior 161 stomach. Approximately 80% of the stomach was sepa-162 rated. The entire staple line was inspected for bleeding and 163 tested for leakage. The integrity of the staple line was tested 164 by insufflating air under saline and infusing methylene blue 165 into the remaining stomach. The resected stomach was 166 extracted through the 15-mm umbilical port incision with-167 out the need for an Endobag. The fascial defect of the 168 umbilical port site was closed with a figure-of-eight 2-0 169 nonabsorbable suture to prevent port site hernia formation. 170 Deep vein thrombosis prophylaxis was achieved using 171 anticoagulation, compression stockings, and an intermittent 172 venous compression device. Once the patient was hemody-173 namically stable, afebrile, ambulating, able to maintain 174

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