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63 of the stomach, and esophageal dilation are an all-toocommon part of postoperative care [2-5]. 64

Laparoscopic gastric plication (LGP) is a newer mini-65 mally invasive weight loss surgery technique that reduces 66 the size of the stomach with simple sutures and does not 67 68 require resecting the stomach [6]. It is a feasible, safe, and effective surgical method for weight loss and patients lose a 69 70 mean EWL of 40% to 70% after surgery [7–9]. Talebpour 71 and Amoli introduced plication of greater curvature as an alternative to cutting it and recently published their 12-year 72 73 results with good outcomes [6]. LGP with LAGB has been reported to decreases band-related complications [10]. 74

75 Keeping all the advantages and disadvantages in mind, 76 05 one surgeon in our practice (S2) began combining LAGB with LGP to reduce band-related complications like slip-77 page and poor weight loss that are sometimes seen with 78 79 LAGB [11–13]. Another surgeon in our practice (S1) performed only LAGB. This retrospective study investi-80 gated the weight loss and complication between LAGB with 81 gastric plication (LAGBP) and LAGB. 82

84 Methods

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85 This study has been approved by Quorum Review-86 Independent review board (QR# 31353), before data 87 collection. All procedures performed in studies involving 88 human participants were in accordance with the ethical 89 standards of the institutional and or national research 90 committee and with the 1964 Helsinki declaration and its 91 later amendments or comparable ethical standards. 92

One hundred twenty patients were selected from those 93 who received either the LAGB or the LAGBP between 94 February 2011 and July 2013. Seventy-six patients received 95 the LAGB, and 44 received the LAGBP. All surgeries were 96 performed by one of the 2 surgeons at the same institution. 97 Patients were selected for each surgery based on when they 98 came in and the surgeon they chose. One surgeon in our 99 practice still actively performs LAGB the same way our 100 group has for over 8 years. All patients of this surgeon had 101

LAGB. The other surgeon in our practice stopped perform-118 ing LAGB in 2012 and began informing patients of the 119 LAGBP option. Patients chose LAGBP based on an 120 extensive preoperative educational experience and signed 121 a specific informed consent detailing the LAGBP procedure 122 that included a diagram of the proposed operation. 123

All patients in our practice signed consent for retrospec-124 tive blinded data analysis. Patients also underwent a 125 preoperative evaluation including history, physical exami-126 nation, nutritional, and psychiatric evaluation. Dietary 127 restrictions related to gastric banding were discussed in 128 detail with the patients. Laboratory evaluation included 129 complete blood count and comprehensive metabolic panel, 130 including blood glucose, cholesterol, vitamin B1, B12, D, 131 serum ferritin, and thyroid function tests. The data collected 132 included age, weight, body mass index (BMI), operative 133 time, excess weight loss, and decrease in BMI. Patients have 134 been followed up by their respective surgeon and dietician at 135 frequent postoperative intervals to assess weight loss, percentage 136 of excess weight loss (%EWL), and band tolerance at: 1 week, 137 1 month, 3 months, 6 months, 9 months, 1 year, and so on. All 138 band adjustments were performed under fluoroscopic guidance 139 to guide fill accuracy. 140

Descriptive statistics were used to calculate the mean and 141 the standard deviation of the preoperative characteristics 142 such as age, weight, and BMI. Descriptive statistics are 143 presented as means and standard deviations. Comparisons 144 were made between 2 groups using nonlinear regressions. 145 All the data collected was analyzed using Sigma plot 146 statistical software. T tests and chi-squared tests were used 147 for statistical comparison of quantitative data. A P val-148 ue <.05 was considered statistically significant. 149

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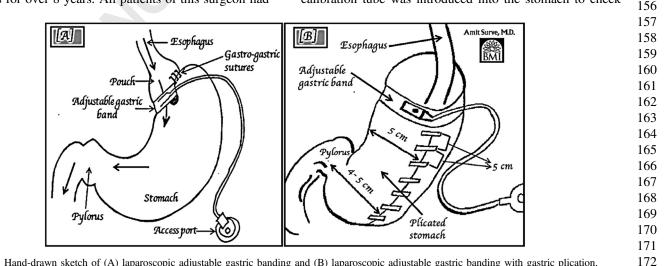
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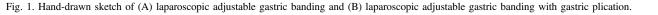
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Surgical technique

LAGB technique. Our method of band placement has also been described previously in detail (Fig. 1a) [14]. F1154 Briefly, after placement of 4 trocars and a liver retractor, a calibration tube was introduced into the stomach to check





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