

Outcomes and complications of laparoscopic gastric banding and gastric plication in treatment of obesity

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Abstract:

Introduction:

New surgical modalities have been introduced to obese patients after several attempts of weight loss non-surgical techniques. Laparoscopic Adjustable Gastric Banding (LAGB) and Laparoscopic Gastric Plication (LGP) were among the two recent ones. The recent study is designed to compare the results and complications of these two techniques in Iranian patients.

Methods:

The recent cross-sectional study was performed on obese patients with body mass indices (BMI) of 32-50 kg/m² who had undergone LAGB or LGP operations during 2005-2012. The study setting was a bariatric clinic in Tehran-Iran and all patients were operated by a single team of surgery. The patients were matched regarding their age and gender. Statistical analysis was performed using SPSS 13.05*.

Results:

One-hundred patients in the LGP group and 140 patients in the LAGB group were evaluated during 8.1±0.9 months period. The mean weight loss of patients was 16.7±2.4 kg in the LGP group and 18.4±2.3 kg in the LAGB group which were not significantly different. The complication rates leading to reoperation was 2.3% and 9% in the LGP and LAGB groups respectively which were significantly different.

Conclusion:

The results demonstrated equivocal response but less complication rates in LGP operations in comparison with the LAGB group. It seems that LGP can be a more safe modality in treatment of obesity.

Keywords: LAGB, Plication, Outcome, Complication, Obesity