

# Gastro esophageal reflux disease before and after bariatric surgeries

BY

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## Abstract

**Background:** The relationship between obesity and GERD risk has been well established. Among the many studies supporting this association is a Norwegian survey of nearly 45,000 subjects between 2006 and 2009. Many authors suggest performing esophagogastro duodenoscopy (OGD) in all patients before bariatric procedures. On the other hand, many other investigators advocate a selective approach for asymptomatic patients. Laparoscopic Roux-en-Y gastric bypass (LRYGB) is considered by most experts the procedure of choice for the management of GERD in obese patients, However, the effect of LSG on GERD is still unclear.

**Objective:** To identify presences or absences of GERD in patient undergoing different types of bariatric surgery and the effect of this surgery on GERD status post operatively.

**Patients and methods:** study included forty successive morbidly obese patients who present to This prospective the surgery department of al-Azhar university hospitals and Al-ahrar teaching hospital seeking for bariatric surgery, In the period from January 2018 to April 2020. In the present study seventeen (42.5%) of the patients were males while twenty-three (57.5%) were females. Full history, physical examination and special investigations were taking, OGD was done preoperative in all patient and yearly postoperative for two successive year.

**Result:** In the present study seventeen (42.5%) of the patients were males while twenty-three (57.5%) were females, Upper endoscopy was performed preoperatively in all cases. In LSG group (14): post-operative with follow up by OGD there was five (5) cases 35.7% have GERD sings and the rest of cases, nighen (9) cases 64.3% have normal esophageal

mucosa. In LRYGB group (19) case: all patients have normal esophageal mucosa after operation. In LGCGP group (3) cases: post-operative with follow up by OGD there was one case 33.3% have GERD signs and the rest of cases, two (2) cases 66.7% have normal esophageal mucosa. In LMGB group (4) cases: post operatively two (2) case 50% improved in the 2nd year, one (1) 25% improved from the 1st year and one case 25% has increase GERD symptoms, signs, and biliary reflux.

**Conclusion:** OGD should be done before bariatric procedures routinely or selectively, Laparoscopic Roux en-Y gastric bypass (LRYGB) is considered by most experts the procedure of choice for the management of GERD in obese patients, however LSG is still un clear on obese patient with GERD.

**Key words:** Morbidly obese patient, morbidly obese patient with GERD, OGD before and after bariatric surgeries, RYGBP is the operation of choice in obese patient with GERD.