

June 19-20, 2018  
Paris, FranceWaleed Gado et al., J Clin Gastroenterol Hepatol 2018, Volume: 2  
DOI: 10.21767/2575-7733-C1-002EFFICACY OF MGB IN DIABETIC PATIENTS WITH BODY MASS INDEX <35 KG/M<sup>2</sup>Waleed Gado<sup>1</sup> and T Mahdy<sup>1,2</sup><sup>1</sup>Mansoura University, Egypt<sup>2</sup>Al Qassimi Hospital, UAE

**Background:** A lot of reports have shown that patients with body mass index (BMI)>35kg/m<sup>2</sup> who underwent metabolic surgery experienced resolution of type 2 diabetes (T2DM). One of those bariatric surgery proved to be safe, effective, reliable and reversible is Mini-gastric bypass (MGB). Little studies addressed the efficacy of MGB on the resolution of T2DM in patients with BMI< 35 kg/m<sup>2</sup>.

**Objectives:** We aimed to evaluate the efficacy of MGB on resolution of T2DM in patients with BMI< 35 kg/m<sup>2</sup>.

**Methods:** From March 2011 to May 2015; 135 patients with T2DM and BMI<35 kg/m<sup>2</sup> underwent MGB were enrolled in this study. The changes in fasting blood sugar (FBS), glycosylated haemoglobin (HbA1c), alanine transaminase (ALT), C-peptide, total body weight and the use of oral hypoglycemic agents and insulin at the end of one year were studied.

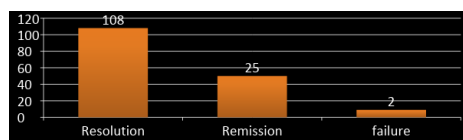
**Results:** 108 patients (80 %) showed resolution, 25 patients (18.5 %) showed remission and only two patients (1.5 %) failed to respond after surgery as shown in fig1. There was statistically significant changes in BMI, FBS, and HbA1c (fig 2) one year post operatively with p-value<0.05. The duration of T2DM, preoperative treatment, ALT, and C-peptide seem to be of paramount importance as prognostic factors for resolution of T2DM after surgery.

**Conclusion:** Our study showed that MGB is associated with a high rate of resolution of T2DM at 12 months after surgery in diabetic patients.

## Biography

Waleed Gado has completed his master's degree in Surgery in 2008, PhD in 2014 from Mansoura University, Egypt. He is currently an Assistant Professor of Endocrine and Bariatric/Metabolic Surgery. He is also a Consultant Surgeon in Egypt and Arab Gulf countries. His interest and research is mainly focused on minimally invasive approaches for endocrinal diseases and bariatric surgeries.

waleedgado79@gmail.com



Item	Pre-operative	One year post-operative	P value
BMI (kg/m <sup>2</sup> )	29.9 ± 3.4	24.4 ± 2.6	< 0.05
FBS (mg/dL)	74.2 ± 169.2	112.5 ± 26.8	< 0.05
HbA1c (%)	8.9 ± 1.7	5.8 ± 0.98	< 0.05

Changes in BMI, FBS and HbA1c after one year of surgery: BMI, body mass index; FBS, fasting blood sugar; HbA1c, glycosylated haemoglobin



Gastrografin meal follow through following MGB