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Effect of sleeve gastrectomy on metabolic status in type 2 obese diabetics

Dr. Ibrahim El Bayoumy

University of South Wales, United Kingdom

Background: Limited data are available about evaluation of the effects of sleeve gastrectomy on the glycaemic control on diabetes mellitus. The objective of this study is to evaluate the effectiveness of sleeve gastrectomy in improving the control of glycemic status in obese diabetic patients

Patients and methods: This is retrospective cross sectional study to review the maintained data base collected between May 2018 to April 2021 in department of laparoscopic surgery in Farwaniyah hospital-Kuwait.

A total 120 patients with diabetes mellitus who had undergone laparoscopic sleeve gastrectomy were studied at 3 months and 6 months of follow up visits, collected data about variation in Body Mass Index (BMI). And glycosylated hemoglobin (HbA1c), and fasting blood glucose were analyzed.

Results: Of the 120 diabetic patients with ≥ 6 months post-operative follow up 48 diabetic patients (40%) are still taking medications for diabetes mellitus and 72 diabetic patients (60%) were resolved at 3 months and 6 months of follow up. HbA1c has decreased from 9.22 ± 1.36 ($n=18$) preoperatively to 6.02 ± 0.22 after 3 months of surgery and 30 diabetic patients, HbA1c become 5.88 ± 0.22 after 6 months. Body Mass Index (BMI) has decreased from 47.43 ± 11.33 in the sample of the study (120 diabetic patients) preoperatively to 37.82 ± 6.80 at 3 months and to 33.25 ± 3.12 Kg/m after 6 months of surgery. Patients with short duration of diabetes less than 5 years have had better weight loss after surgery and achieved greater resolution rates (euglycemic state).

Conclusion:

Sleeve gastrectomy has improved the glycemic control in obese diabetic patients in the form of improvement and resolution and also succeeded in reduction of the body weight in the sample of the study

Biography

Professor Dr Ibrahim El-Bayoumy holds bachelor of medicine and surgery (Tanta faculty of medicine-Egypt, 1989), then he earned his master degree in public health, preventive and social medicine (Tanta faculty of medicine-Egypt 1996), and MD, PhD in public health, preventive and social medicine 2003 from Tanta faculty of medicine-Egypt and McGill faculty of medicine –Montreal -Canada in division of clinical epidemiology in Royal Victoria hospital through double channel system as scholarship from ministry of education-Egypt. He is Full professor of public health and community medicine in Tanta faculty of medicine-Egypt since November 2016. Now he is working in ministry of health in Kuwait as consultant of public health and preventive medicine. He has published many research works in international journals, he is interested in research in epidemiology of infectious diseases like HIV, tuberculosis, brucellosis and infectious hepatitis, he is interested in epidemiology of chronic diseases like diabetes mellitus and its health economics, obesity and cancer and pharmacoepidemiology. He is a reviewer of many national and international journals. He has obtained post-graduate Master degree in diabetes care and education-Dundee faculty of medicine-Scotland –UK October 2015. He is a lecturer and tutor of post graduate public health studies since March 2021 in university of South Wales-UK. He was invited speaker in many international conferences in China, South Korea, Japan, and Hong Kong.

ibrahim.elbayoumy@med.tanta.edu.eg

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