DECREASE IN INSULIN USE IN DIABETIC PATIENTS OPERATED ON BARIATRIC SURGERY.

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Abstract

Introduction: Obesity is an abnormal and excessive accumulation of adipose tissue that affects the state of health (WHO), obesity is define as a BMI of 30 kg/m2 or greater. The importance of obesity is the comorbidities associated like diabetes mellitus, hypertension, heart disease, respiratory disease, and others. In recent years has increased the incidence of overweight and obesity and with that the diabetes mellitus. Bariatric surgery has shown an increase in excess weight loos and improvement of comorbidities, including remission of diabetes mellitus. The object of this study is to define the effect of bariatric surgery in patient with diabetes mellitus treated with insulin in a period of 5 years, in The National Medical Center Hospital 20 De Noviembre, ISSSTE, of Mexico city.

Methods: In this retrospective, longitudinal, analytic study, with 523 patient undergoing bariatric surgery at The 20 De Noviembre Medical Center Hospital, in a period of 01 January 2011 to 31 October 2016. Only 35 patients were treated whit insulin. Kolmogorov-Smirnov test was performed to determine the distribution of

normality of the samples, the Student's T test was used and U of Whitney Mann, as the case may be.

Result: 35 obese patients were on insulin treatment, and underwent bariatric surgery, 77% were female and 23% were male, mean age 50 years, suffering from diabetes mellitus with the mean of 10.3 years, the period of time using insulin with a mean of 37.4 months, with a HBA1c of 9.4%, the procedures performed were 20 sleeve gastrectomies, 12 gastric bypasses and 3 gastric bands.

Conclusion: The majority of the patient no longer required insulin, 91.4% of patients in our study, the importance lies in the impact on the quality of life, and on the economic impact, we show that bariatric surgery decreases the use of insulin.

Keywords: bariatric surgery, obesity, insuline and obesity, diabetes mellitus.

Professional Biography

Ivan Adame García has completed his PhG at the age of 24 years from Monterrey University school of medicine, Monterrey Nuevo León, México, and general surgery speciality studies from Murgueza Hospital, Monterrey, México, and bariatric surgery fellowship studies from Medical Center 20 De Noviembre, ISSSTE, Mexico City. He has currently started his incursion in the field of research, presenting publications in local journals, as well as participating with multiple works, exhibitions and presentations at the surgery congresses of Mexico.



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