



## PROSPECTIVE STUDY OF A NEW MODEL OF SILICONE BAND IN GASTROPLASTY

Almino Cardoso Ramos; Manoela Galvão; Andrey Carlo; Edwin G. Canseco; Marcus Lima; Manoel Galvão Neto.

Institution: Gastro Obeso Center – São Paulo - Brazil

**INTRODUCTION;** The banded gastroplasty with Roux and Y bypass, also called Vertical Banded Gastroplasty (VGB) or even by names of surgeons who design it like Drs Mal Fobi and Rafael Capella is one the options and standards to treat morbid obesity. In order to solve the lack of specifically design band to be applied on this surgery in Brazil, a new model of silicone band was design. This silicone band is adjustable to the diameter of gastroplasty and has its fabrication process controlled. **AIM:** Evaluate the initial results of new model of silicone band to be used in VGB. **CONTENTS:** Between feb-03 and feb-04, 137 patients with lap VBG using the new silicone band were prospectively analyzed. 89 (65%) female with age range of 14-64 (M= 36,5y), BMI of 37-66 Kg/m<sup>2</sup> (M= 44 Kg/m<sup>2</sup>). The issues analyzed were divided between the surgical and the silicone ring ones. **Operative technique:** 5 trocars; His angle dissection; gastric small curvature dissection; vertical gastroplasty (5-6cm) between endo linear staplers; silicone band placement behind the gastroplasty with goldfinger 1cm above gastroplasty end; anterior closing of silicone band with Ethibond® 2-0 suture for a 6,2cm diameter over a 12mm boogie; the other technical steps follows the Roux and Y reconstruction. **RESULTS:** No conversion or deaths occurred. The mean BMI goes from 44 to 28, 4 Kg/m<sup>2</sup>. Surgical times varied from 50 to 154 min (M= 89 min), days in hospital were 1, 5-6d (M= 3d). Silicone band placement time varied between 55seg to 4min15seg (M=1min40seg), in 130 patients (94%) the ring placement was considered easy. Bypass complications were 3%. Re-operation was 0, 7%. No complications due to this new silicone band such as bleeding on dissection, band migration, slippage or intolerance due to vomiting happened. **CONCLUSIONS:** this new silicone band to be used in VGB had demonstrated to be safe and effective on this prospective study