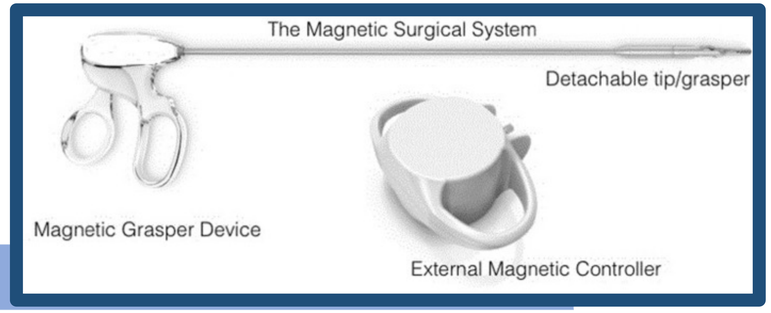
Magnetic Grasper Technology for Laparoscopic Grastric Sleeve Surgery

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Introduction

The present study evaluates an innovative solution through the use of magnetic devices that are coupled and mobilized by external magnetic fields through the abdominal wall. To evaluate a new magnetic surgical system during reduced-port gastric sleeve surgery



Results

We operated 46 patients, 33 women and 13 men. Average age of 36 years old. The BMI with a mean of 33.4 Kg / m2. All of them had comorbidities including insulin resistance, dyslipidemia, arterial hypertension, hypotyroidism, arthralgia, NASH and / or obstructive sleep apnea. The mean OR time was 1:42 hours. All of them were by a reduced port technique, we used 3 ports. Magnetic grasper was used to retract the stomach and the liver. Average stay of 2 days and no intraoperative or postoperative complications.

Materials and Methods

This magnetic surgical system is an innovative technological platform that utilizes magnetic retraction designed to grasp and retract tissue and organs. It is composed by a grasper device with a detachable tip and a magnetic controller.

Conclusions

This novel technology is safe. It allows a greater exposure in reduced port laparoscopic surgery. It is very easy to manipulate because its shape and function are equal to a regular grasper, and it can be utilized with a minimal learning curve.

