

Conclusions: The report showed how the HandX technology could be safely adopted to obtain both a safe dissection and an ergonomically advantageous suture in laparoscopic Nissen fundoplication.

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V-055 LAPAROSCOPIC FUNDOPLICATION WITH HANDX™ HOOK AND NEEDLE HOLDER

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Aim: HandX™ is a handheld, powered laparoscopic device with interchanging single-patient fully articulating instruments. It is electromechanically controlled, and, as the manual interface is handled by the surgeon, beside the patient's bed, the movements of the surgeon's wrist and fingers are translated to the instrument-articulating tip. This report is to show the feasibility and safety of this technology implemented with a monopolar dissecting hook in a complex abdominal procedure.

Materials and Methods: We report the case of the laparoscopic repair of a large hiatal hernia using HandX™ instruments.

Results: The index case was a 69-year-old female with symptomatic large paraesophageal hiatal hernia. Three 5 mm trocars were used: 1 in the left midclavicular line, 1 in on the right of the midline close to the costal arch and 1 assistant on the right midclavicular line, one 11 mm umbilical. The sac was dissected with the HandX™ monopolar hook and the stomach was fully reduced into the abdomen with the hernia sac. The hiatus was closed with three separated stiches handled with the articulating needle holder. A Nissen fundoplication was performed. Three separated stiches were used to secure the wrap, using the HandX needle holder. At the end of the operation a mesh was used to reinforce the hiatus. The operative time was 80 minutes, no blood loss nor intraoperative or post-operative complications were recorded