Outcome of robotic (minimally invasive) fundoplication as day surgery

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Background: The prevalence of GERD in the Saudi Arabia was 23.47%, another systematic review reported that the prevalence was 10% to 20% in the Western world. A prospective review for Robotic / laparoscopic fundoplication performed as day surgery focusing on outcome and safety by a single surgeon.

Method: A prospective study of 123 patient who underwent Robotic / laparoscopic fundoplication as day surgery (6-18 hrs. Hospital stay), taking in consideration the pre-op course, type of surgery, and the post op course, and patient outcome. In our institution, many patients had the GERD surgery as a day surgery without any complications. Most of them are satisfied with the outcome, and their symptoms resolved quickly confirming that it is a safe practice for most patients that fit the criteria.

Aim of the Study: Show the outcome, the cost effectiveness and the safety of this Practice. Also to prove that contrast study Post op, and other investigations don't affect the outcome of the surgery, The safety, Patient satisfaction and outcome are measured in this study.

Result: At the beginning of our surgery experience admission and post op swallowing study was mandatory for the first 45 patients, later a criterion for fast tracking of pt’s and 6-18 Hr. Day case surgery protocol was implemented. Most OF THE PATIENT are ASA 1-2, 38% had severe GERD symptoms severe enough to affect their life style, More than 40 % of our pt’s has significant Extra GI manifestation of GERD, Bronchial Asthma was the most common. 40 cases Were done as robotic Procedure, with 1 case of conversion to open 98% of pts had minimal blood loss. less than 9% of patients were admitted more than 24-hour post op for different reason, all discharged uneventfully Complication rate was around 6% Mortality was 0 %.

Conclusion: Robotic / laparoscopic fundoplication has excellent outcome and safety when done as a day surgery. Admission of patients and post op swallowing study, doesn't improve the outcome and is not cost effective. Patient safety, Outcome and satisfaction may be even better if they had the operation as a day surgery procedure Day surgery esophageal procedure such as hiatal hernia, achalasia can be done as day surgery.