



الدراسات العليا

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**Title of thesis:** A COMPARATIVE STUDY BETWEEN SUTURE-FIXED AND NON- FIXED MESH TECHNIQUES IN LAPAROSCOPIC TRANS-ABDOMINAL PRE-PERITONEAL REPAIR OF NON-COMPLICATED ADULT INGUINAL HERNIAS CONSIDERING OPERATIVE TIME RECURRENCE RATE AND POSTOPERATIVE CHRONIC GROIN PAIN

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## ABSTRACT

Laparoscopic inguinal hernia repair (LIHR) is usually done by two methods, which vary in approach to the preperitoneal space; trans abdominal preperitoneal (TAPP) and totally extra peritoneal (TEP). This study aimed at comparing the effect of sutured mesh fixation and non-fixation in cases of laparoscopic TAPP in terms of operative time, hospital stay and complications particularly recurrence and chronic groin pain (CGP).

This prospective randomized comparative study included 40 patients diagnosed with non-complicated inguinal hernias admitted to the Department of Surgery at Fayoum university Hospital, Egypt from March 2019 to July 2021. Cases were divided into two groups by draw of lots with group A as mesh fixation (n=20) and group B as non-fixation (n=20).

The results were calculated with chi square test (p value). Results were found to be not significant in demographic features, inhospital stay, hernia characteristics and complications

i.e. (intraoperative, postoperative and long term) and were significant as regards operative time and early postoperative pain in favor of non-fixation group and results were highly significant ( $p < 0.001$ ).

TAPP repair without mesh fixation shows advantages over mesh fixation, which includes significant less early postoperative inguinal pain and operative time, with comparable intraoperative, postoperative and long-term complications (with no increase in hernia recurrence), hospital stay and mean operative time. Hence, our study favors TAPP without mesh fixation as a valuable alternative option.