

The role of fibrin glue polypropylene mesh fixation in open inguinal hernia repair.

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Abstract:

UNLABELLED: The aim of this study was to compare two methods of polypropylene mesh fixation for inguinal hernia repair according to Lichtenstein using fibrin glue and suture fixation.

MATERIAL AND METHODS: The study included 60 patients with unilateral inguinal hernia, divided into two groups of 30 patients--Suture fixation and fibrin glue fixation. All patients were analyzed according to: age, gender, body mass index (BMI), indication for surgery--the type, localization and size of the hernia, preoperative level of pain and the type of surgery. Overall postoperative complications and the patient's ability to return to regular activities were followed for 3 months.

RESULTS AND DISCUSSION: Statistically significant difference in the duration of surgery, pain intensity and complications ($p < 0.05$) were verified between method A, the group of patients whose inguinal hernia was repaired using polypropylene mesh-fibrin glue and method B, where inguinal hernia was repaired with polypropylene mesh using suture fixation. Given the clinical research, this systematic review of existing results on the comparative effectiveness, will help in making important medical decisions about options for surgical treatment of inguinal hernia.

CONCLUSIONS: The results of this study may impact decision making process for recommendations of methods of treatment by professional associations, making appropriate decisions on hospital procurement of materials, as well as coverage of health funds and insurance.