

Comparative Study Between Cyanoacrylate Glue Versus Sutures For Fixation Of Mesh In Inguinal Hernia Open Repair.

Abstract

Objectives: The Lichtenstein technique is currently the first to repair unilateral primary groin hernias. We aimed to conduct long lateral chain cyanoacrylate as tissue adhesive glue for open inguinal hernias mesh Fixation.

Methodology: 60 patients of inguinal hernia repair were divided randomly into two groups, Group A, sutures did mesh Fixation. Group B, fixation of the mesh was done with cyanoacrylate glue.

Postoperative pain was assessed by VAS at 24 hours, 48 hours, seven days, 15 days, 30 days, 90 days, and six months post surgery.

Results: There was a statistically significant difference regarding the postoperative pain with a p-value <0.05 between two study groups after 24 hours of operation and after 15 days, 1, 3, and 6 months, with a low mean score among the glue group, which indicated low pain score among glue group.

There was a statistically significant difference with p-value <0.05 between two study groups regarding operative time with low mean duration among group used glue, which indicated that using glue instead of suture will consume less time in operation.

Conclusion: mesh Fixation with glue causes less postoperative pain, both acute and chronic, than the classical suture fixation, with similar morbidity and recurrence rates.

Keywords: Lichtenstein, Pain, Glue.