

# **A meta-analysis examining the use of fibrin glue mesh fixation versus suture mesh fixation in open inguinal hernia repair. [Review]**

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## **Abstract:**

**BACKGROUND:** The aim of this study was to systematically analyze the randomized trials comparing fibrin glue mesh fixation with suture mesh fixation in open inguinal hernia repair.

**METHODS:** Information was collected from a literature search using PubMed, Springer, Cochrane Library database and reference lists. The methodological quality of included publications was evaluated. Statistical analysis was performed using Review Manager Version 5.2.5 software.

**RESULTS:** Nine articles were identified for inclusion: four randomized controlled trials (RCTs) and five prospective observational clinical studies. All the trials were considered to be of fair quality. The results showed that there was a lower incidence of chronic pain (RR 0.42, 95% CI 0.22-0.79, I(2) 11%;  $p < 0.01$ ), and hematoma/seroma (RR 0.43, 95% CI 0.21-0.87, I(2) 0%;  $p < 0.05$ ) in the fibrin glue mesh fixation group. However, the results of meta-analysis revealed that the incidence of recurrence or urinary problems between the two procedures were similar.

**CONCLUSIONS:** During the 6-15 months follow-up, fibrin glue mesh fixation is a feasible alternative for mesh fixation with sutures in open inguinal hernia repair. However, the poor quality of the included trials limits the evidence; rigorously designed trials are warranted to confirm this conclusion.

