

# Inguinal hernia

## Comparative analysis of the effectiveness of a modified fixation method in endoscopic hernioplasty for treating patients with primary inguinal hernia

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# **Materials and Methods**

### Study Design & Groups

- Prospective cohort study
- Modified Fixation Group (MFG): 40 patients (2018–2024)
- Standard Fixation Group (SFG): 150 patients (2002–2017)

All patients received a 10x15 cm polypropylene mesh.

## Results: Chronic Postoperative Pain

#### Modified Fixation Group (MFG)

Standard Fixation Group (SFG)

0% incidence of chronic postoperative pain (0/40 patients). 3% incidence of chronic postoperative pain (2/150 patients).

#### Summary

The modified method significantly reduced chronic pain compared to the standard technique.

# Conclusions and Future Directions

#### Conclusions

The modified fixation method reduces chronic postoperative pain effectively.

#### Introduction

Endoscopic inguinal hernioplasty is a common repair procedure. Standard mesh fixation methods can cause chronic pain and recurrence.

Modified fixation aims to reduce these complications and improve outcomes.

#### Aim of the Study

Evaluate the effectiveness of a modified mesh fixation method versus the standard EHS technique.

Primary outcomes: incidence of chronic postoperative pain and recurrence rates.

### Modified Fixation Technique

Longitudinal trimming of mesh to create branches.

Suturing mesh branches around spermatic cord in preperitoneal position.

- Inclusion: primary inguinal hernias ≤3 cm, ASA II-III, mean BMI 29.5
- Statistical analysis: Chi-square test for complications and recurrence



