# Use of Mesh in Hiatal Hernia Repair

M. Shepherd, MD, M. Mancini, MD

## **Background**

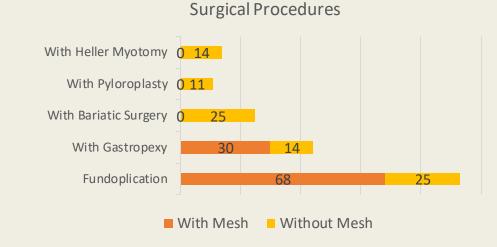
- Oelschlager et al. reported that the recurrence rate after pure suture repair without mesh reinforcement is as high as 59% at 5-year follow-up
- Initially synthetic mesh was used but had complications
- Erosion, stricture, and dysphagia
- New research is evaluating the efficacy of biologic mesh reinforcement

## Methods

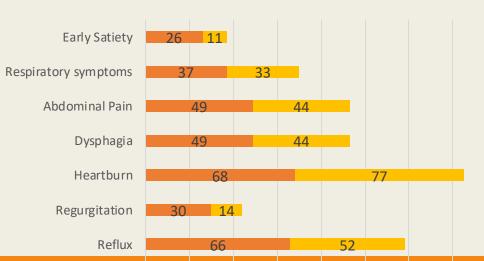
- Retrospective review from January 2017 to July 2021 who underwent paraoesophageal hernia repair
- 89 patients' charts were reviewed
- 36 having repair without mesh
- 53 having repair with mesh with biologic mesh
- Chi square test used to analyze data

## **Patient Characteristics**

- (Mesh vs Without mesh)
- Average age (66.6 v 55.4 years)
- Female (79% v 67%)
- Smoking (1% v 25%)
- BMI (28.9 v 32.2)
- Medical management (6.48 years v 5.25 years)
- Symptoms post op (43% v 58%)
- No difference in past medical history



# **Preoperative Symptoms**



## Results

- (Mesh vs Without mesh)
- Length of follow up (19.2 v 18.3 months)
- Had recurrence (15% v 3%) (p: 0.06)
- Time to recurrence (20.5 v 16 months)
- Complications (70% v 14%) (p: 0.35)
- Major complications (2% v 3%) (p:32)

#### Discussion

- No statistically significant results
- Trend towards for regurgitation and early satiety

### Limitations

- Small sample size
- Patient selection
- Single surgeon and institution
- Short term follow up

## **Future Research**

- Follow patient further into the future
- Multiple surgeons
- Evaluate differing kinds of mesh
- Exclude the bariatric patients

• GERD, HTN, DM, HLD, COPD, Esophagitis

THE UNIVERSITY OF TENNESSEE