



# What are the factors influencing the surgical approach in hiatal hernia?



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## **Background**

- Hiatal hernia repair in pediatric patients 

  challenge
- Laparoscopic OR open surgical approaches?
- Factors influencing the choice between these techniques remain underexplored.

## Aim



evaluate the key factors that influence the decision between laparoscopic or open surgical repair of hiatal hernias in children

### Methods:

- Retrospective study
- including all the patients operated on for hiatal hernia over 10 years period.
- evaluate the key factors that influence the decision between laparoscopic or open surgical repair of hiatal hernias in children

#### **Results:**

- Total Patients: 23 cases
- 17 patients (74%) undergoing laparoscopic surgery
   6 patients (26%) undergoing open surgery
- No significant differences in gender, body mass index, or age between groups.
- Comorbidities++: neurological impairments  $\implies$  open surgical approach (p<0.001)
- During Surgery: laparoscopic surgery had significantly smaller hernia sizes compared to open surgery (2.9±1.2 cm vs 4.6±0.8 cm; p=0.042).
- Type of hernia component: differed significantly between groups,

Type IV hernias being **more prevalent** in the open surgery group compared to laparoscopic surgery group (p=0.012).

## **Conclusion:**

These findings underscore the clinical decision-making process in choosing between laparoscopic and open surgical approaches for pediatric hiatal hernia repair, highlighting the influence of hernia size and type on the choice of surgical technique.