

PEDIATRIC HERNIA

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Pediatric Hernias: A Comprehensive Overview

Pediatric hernias are common conditions affecting children worldwide. Early recognition and treatment are key to preventing complications. This presentation covers types, diagnosis, surgical options, and outcomes.



Kiddhoon Hernias

Introduction to Hernias: Definition and Types

Hernia Definition

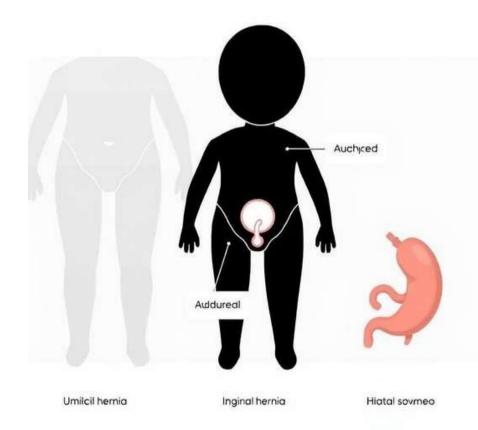
A protrusion of an organ or tissue through a weak spot in the muscle wall.

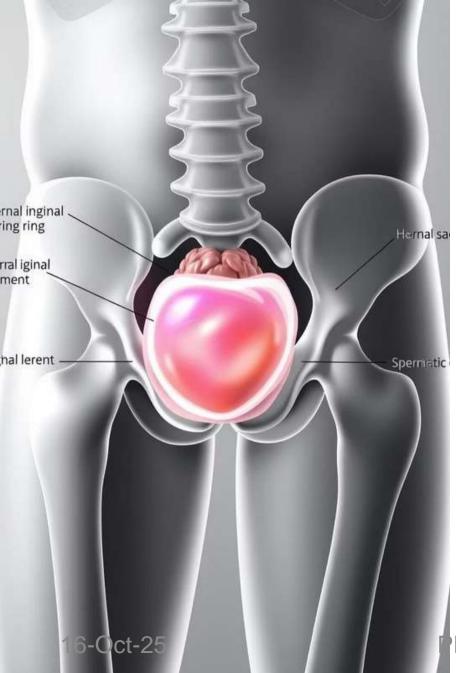
Common Types

- Inguinal Hernia
- . Umbilical Hernia
- Incisional Hernia (rare in children)

Risk Factors

Prematurity, connective tissue disorders, family history, and increased abdominal pressure.







Inguinal Hernias: Prevalence and **Anatomy in Children**

Prevalence

Most common hernia in children, especially in boys (up to 5%).

Anatomical Features

Occurs when the processus vaginalis fails to close after birth.

Laterality

More common on the right side but can be bilateral in 10% of cases.

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Umbilical Hernias: Natural History and Management

Natural History

Usually close spontaneously by age 3-5 years without surgery.

Rarely causes complications if small and asymptomatic.

Management

- Observation in most cases
- Surgical repair if persists beyond 5 years or symptomatic
- Urgent surgery if incarcerated

Clinical Presentation: Signs and Symptoms to Watch For

1

Visible Bulge

Soft swelling in the groin or umbilical area, worsens with crying or straining.

2

Pain or Discomfort

May cry or show discomfort at site, especially if incarcerated.

3

Signs of Complications

Redness, tenderness, vomiting, or inability to reduce the hernia indicate urgency.





Diagnostic Evaluation: Physical Exam and Imaging

Physical Exam

- Inspect during Valsalva or crying
- Palpate for reducible mass
- Check both sides for bilateral hernias

Imaging

- Ultrasound to confirm diagnosis if unclear
- Rarely required if clinically obvious
- Useful for differentiating other masses



Surgical Repair Techniques: Open vs. Laparoscopic

Open Repair

- Traditional approach with small groin incision
- High success rate and short operative time
- . Excellent for unilateral hernias

Laparoscopic Repair

- Minimally invasive with faster recovery
- Better visualization of both sides
- Preferred for bilateral or recurrent cases





Post-operative Care: Pain Management and Recovery

Pain Control

Use age-appropriate analgesics such as acetaminophen or ibuprofen.

Activity

Limit vigorous play for 1-2 weeks; encourage light activities early.

Wound Care

Keep incision clean and dry; monitor for signs of infection.



Complications and Recurrence: Prevention Strategies

1 Early DiagnosisMinimizes risk of incarceration and strangulation.

Proper Surgical Technique

Ensures complete closure of defect and reduces recurrence.

3 Post-op Follow-up Essential to detect early recurrence or complications.



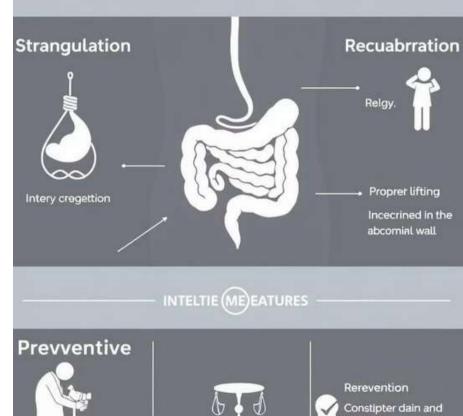
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Case Studies: Illustrative Examples and Outcomes

Case 1

3-year-old with inguinal hernia, successfully treated with open repair, full recovery in 2 weeks.

Case 2

7-year-old with bilateral inguinal hernias repaired laparoscopically, minimal pain, return to school in 3 days.

Case 3

Infant with umbilical hernia observed conservatively, spontaneous closure by age 4 without surgery.