

# **Hernia**

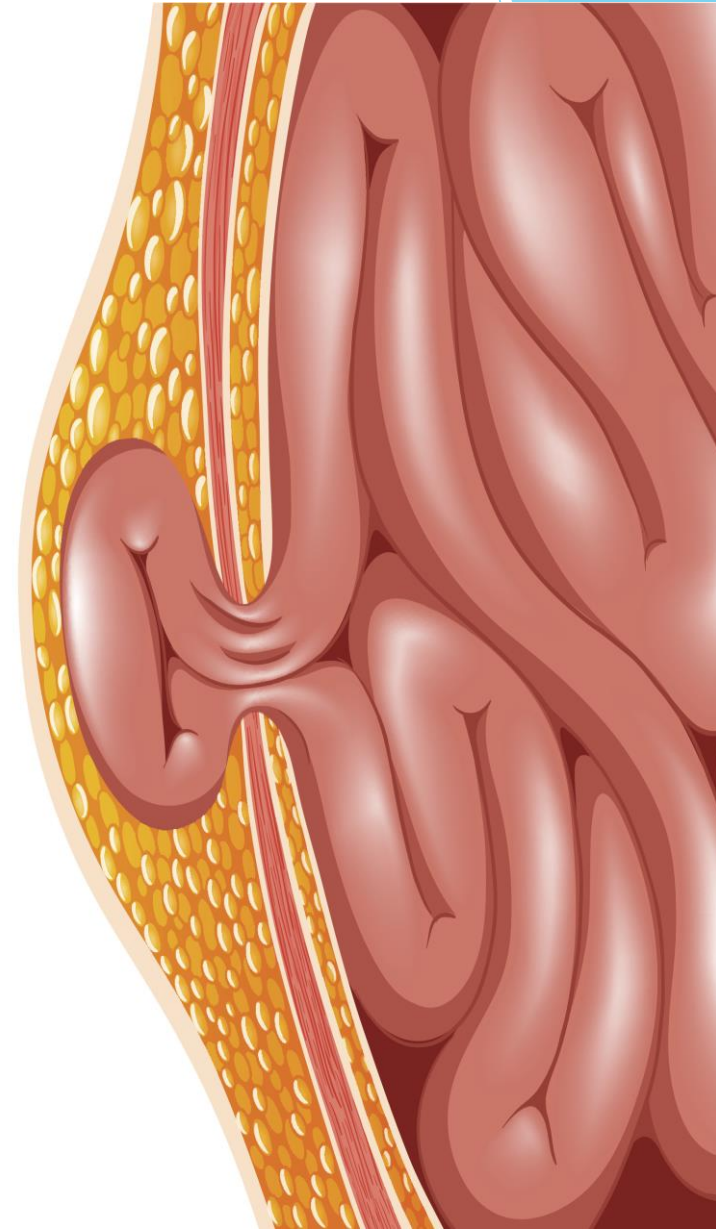
# **Hypospadias**

# **Abdominal Masses**

- ▶ *By: Ali Tadayon MD.*
- ▶ *Pediatric Surgeon*

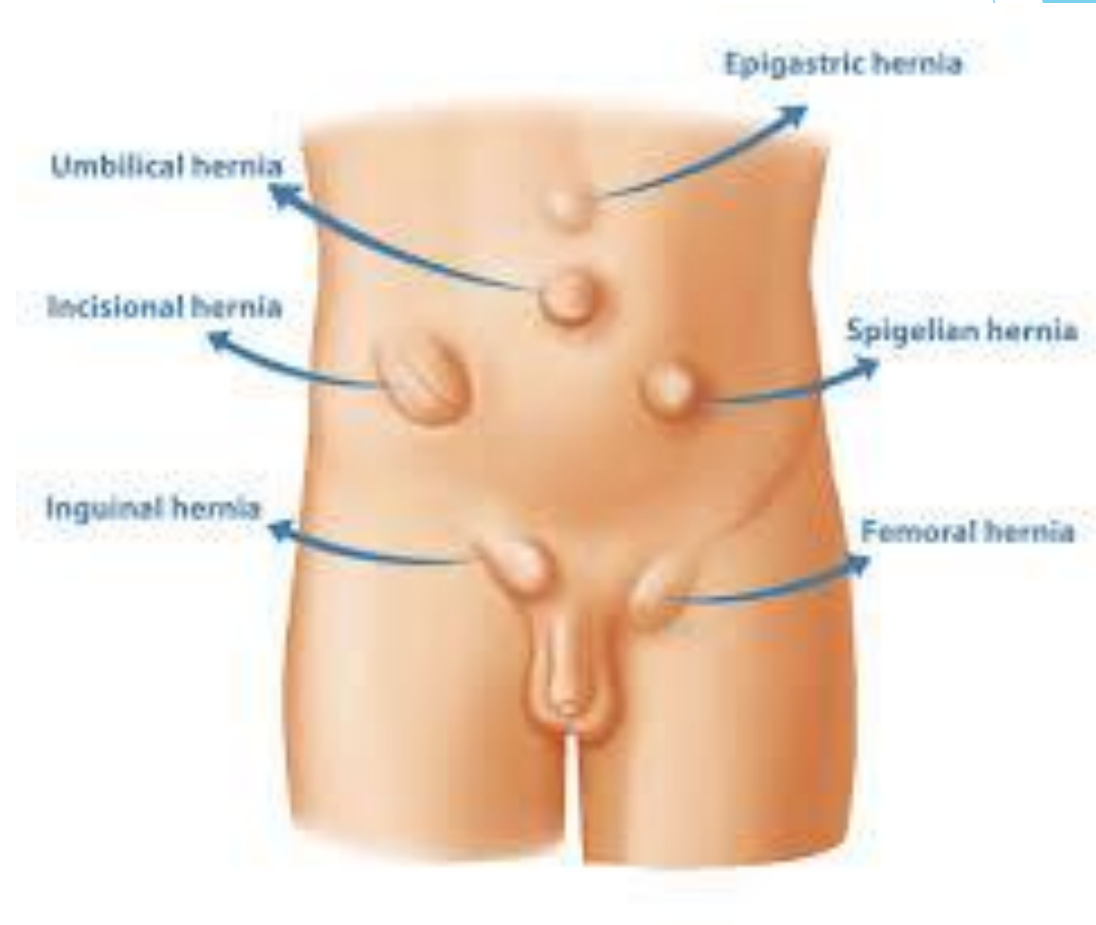
# Hernia

- ❑ A hernia occurs when an organ pushes through an opening in the muscle or tissue that holds it in place.
- ❑ Most hernias aren't immediately life-threatening, but they don't go away on their own. Sometimes they can require surgery to prevent dangerous complications.



# Types of hernia

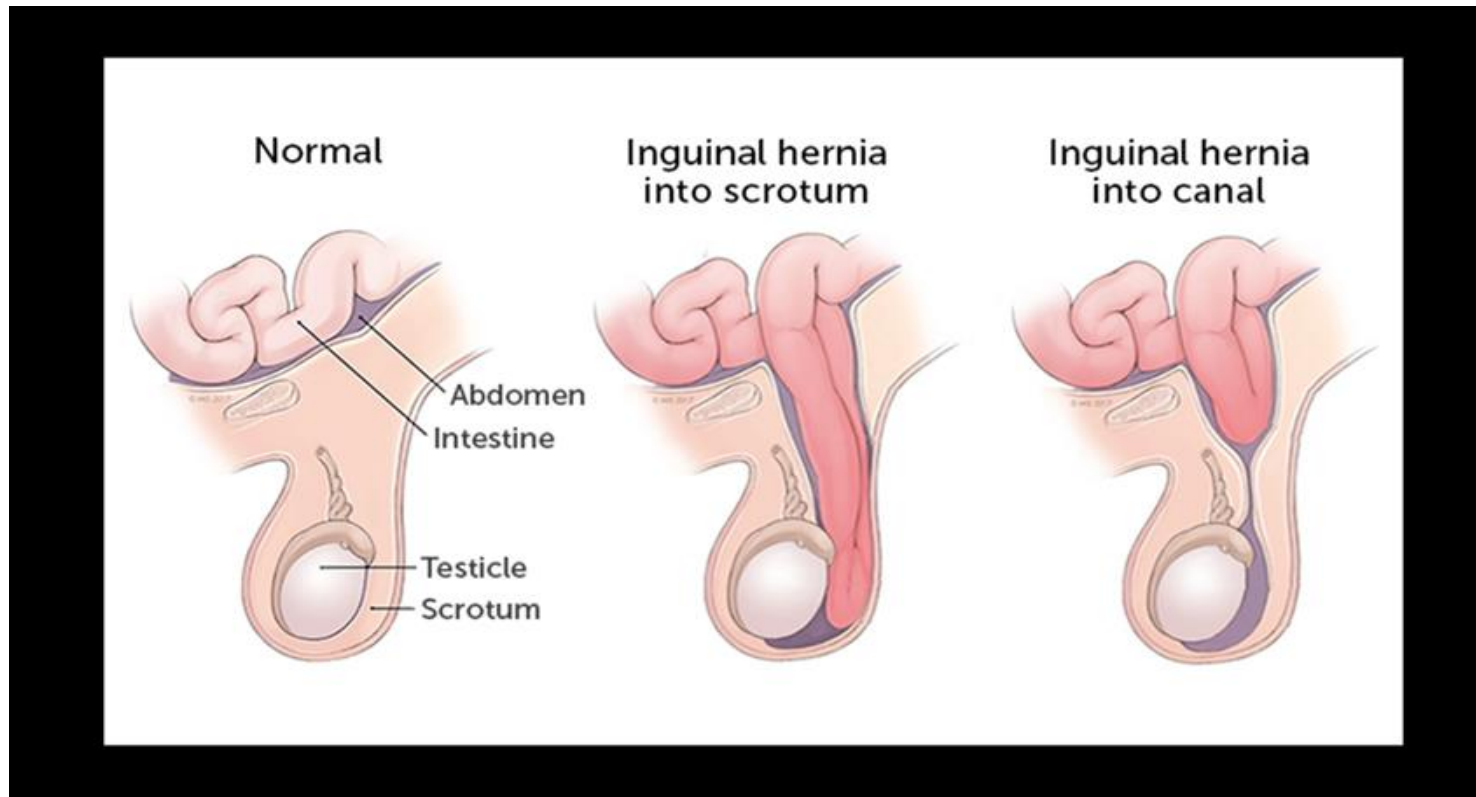
- ❑ Inguinal hernia.
- ❑ Femoral hernia.
- ❑ Umbilical hernia.
- ❑ Incisional hernia.
- ❑ Epigastric hernia.
- ❑ Hiatal hernia.



# Symptoms of a hernia

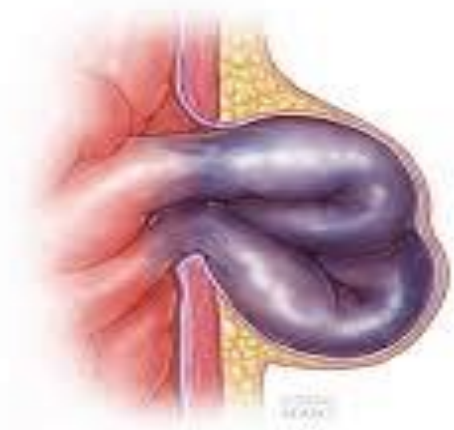
- ▶ **An inguinal hernia is a bulge or protrusion that is seen or felt in the groin area or the scrotum (for boys).**
- ▶ **Inguinal hernias occur in boys more frequently than in girls.**
- ▶ **Infants who are born prematurely are at an increased risk of having an inguinal hernia. For example, about one-third of baby boys born at less than 33 weeks gestation will have an inguinal hernia.**

- ▶ **Inguinal hernias are often more noticeable during times when the child is bearing down — crying, coughing, or straining to have a bowel movement.**
- ▶ **The bulge may seem to disappear when the child is quiet or resting.**
- ▶ **Inguinal hernias do not usually cause pain.**



# Incarceration & Strangulation

- ▶ **Incarceration of the hernia occurs when the hernia contents (usually the intestine) get trapped in the defect and are unable to go back into the abdomen.**
- ▶ **An incarcerated hernia will often cause a painful, firm bulge. The blood supply to the incarcerated contents can become compromised (a strangulated hernia), and patient can become**



# Surgical repair of inguinal hernia

- ▶ Unlike some umbilical hernias, inguinal hernias will not resolve on their own. Surgery is required to correct the defect and prevent any harm to the hernia contents.



# Manual Reduction of Incarcerated Inguinal Hernia in Children

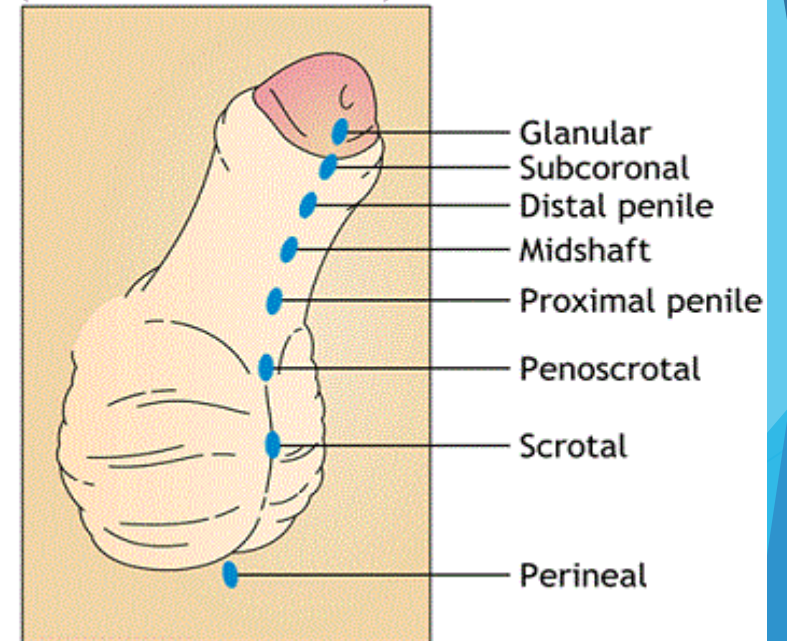




# Hypospadias

- ▶ Hypospadias is a malformation that affects the urethral tube and the foreskin on a male's penis.
- ▶ Hypospadias is a congenital (present at birth) anomaly (abnormality), which means that the malformation occurs during fetal development.

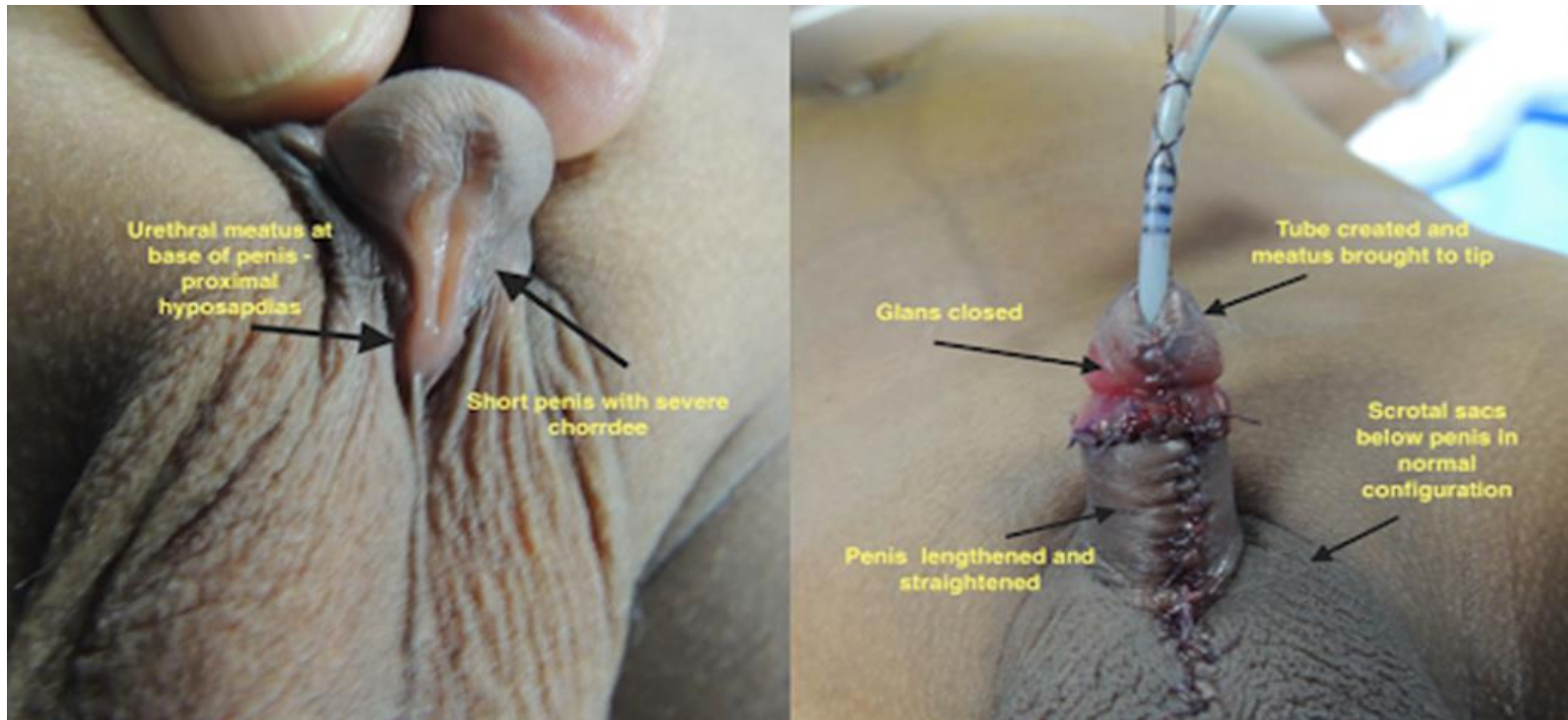
Types of hypospadias  
(shows where the urine comes out)



© Royal Children's Hospital, Melbourne, Australia.  
Kids Health Info [www.rch.org.au/kidsinfo](http://www.rch.org.au/kidsinfo)

# What are the symptoms of hypospadias?

- ▶ **Abnormal appearance of foreskin and penis on exam**
- ▶ **Abnormal direction of urine stream**
- ▶ **The end of the penis may be curved downward**



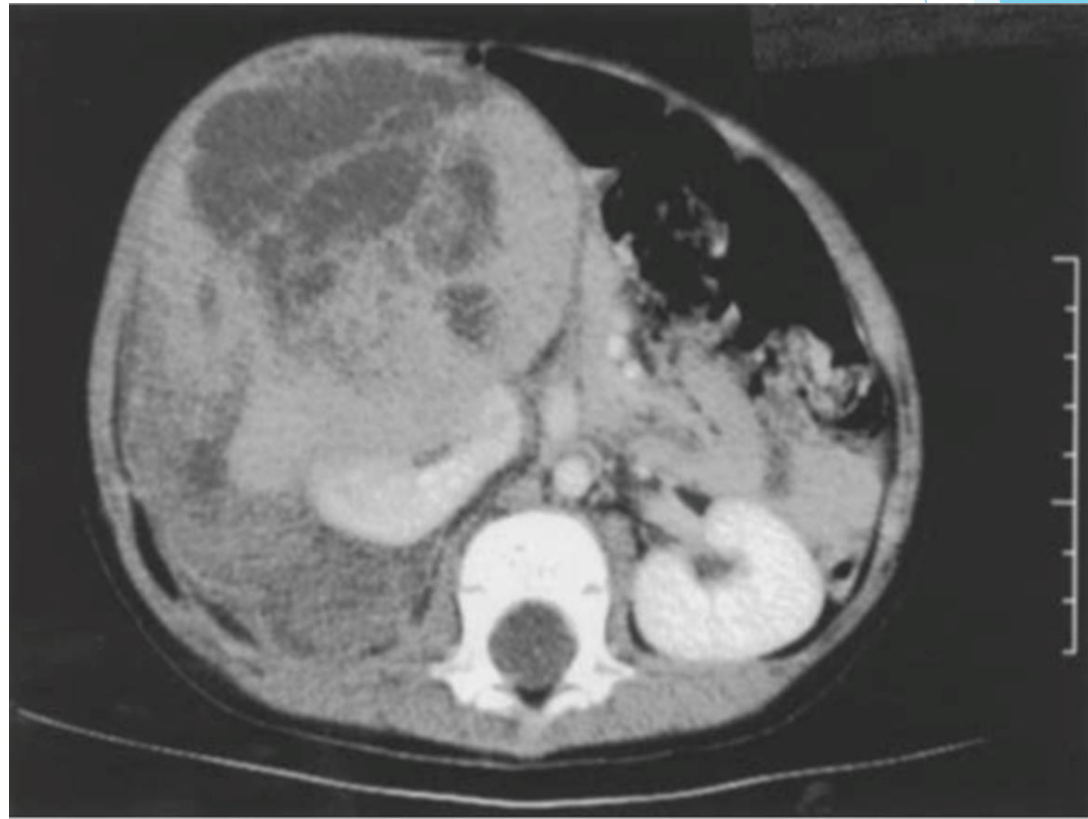
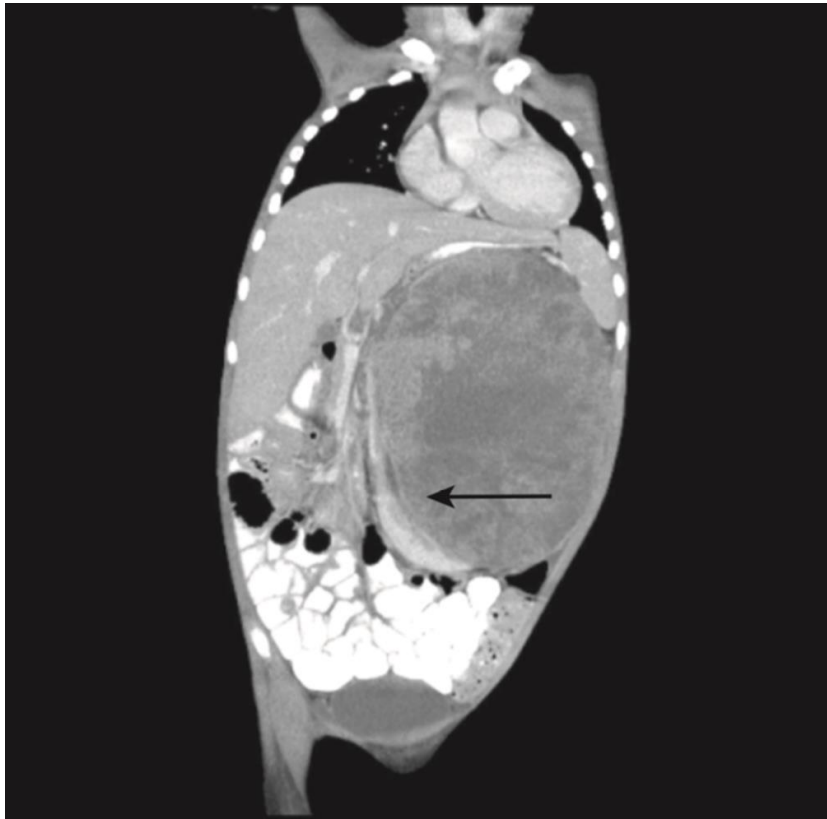
# Is there an ideal age for hypospadias repair?

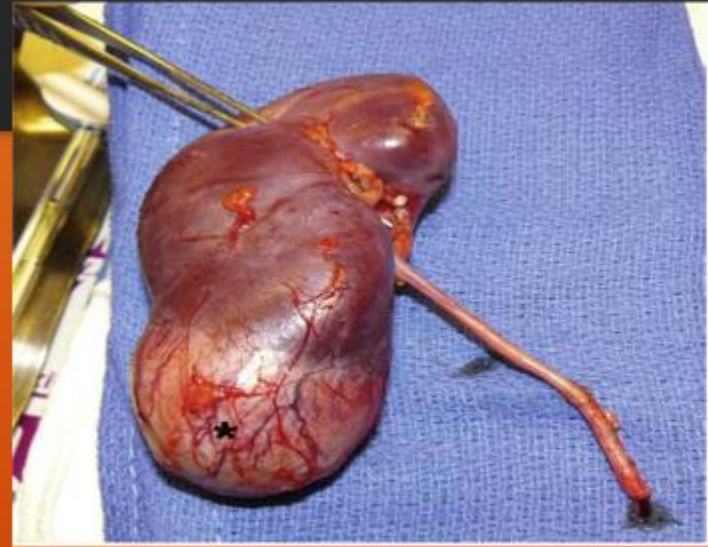
- ▶ **The best time for hypospadias repair is between 6 and 18 months.**

# **Abdominal Masses**

- ▶ **Wilms' Tumor**
- ▶ **Neuroblastoma**
- ▶ **Teratomas**
- ▶ **Liver Tumors (Hepatoblastoma & hepatocellular carcinoma)**

# Wilms' Tumor

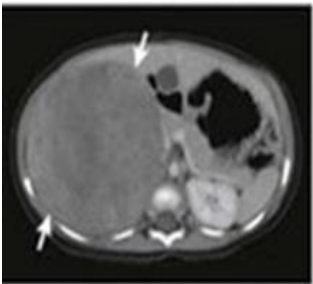




# Neuroblastoma

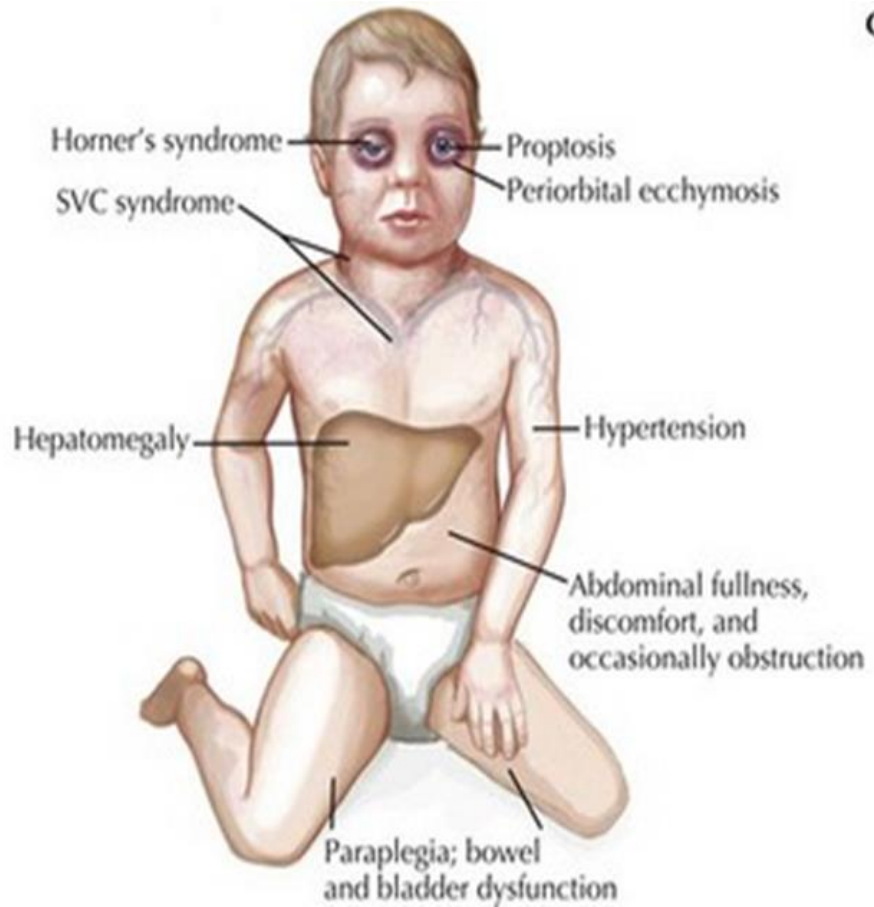


MR image, paraspinal tumor

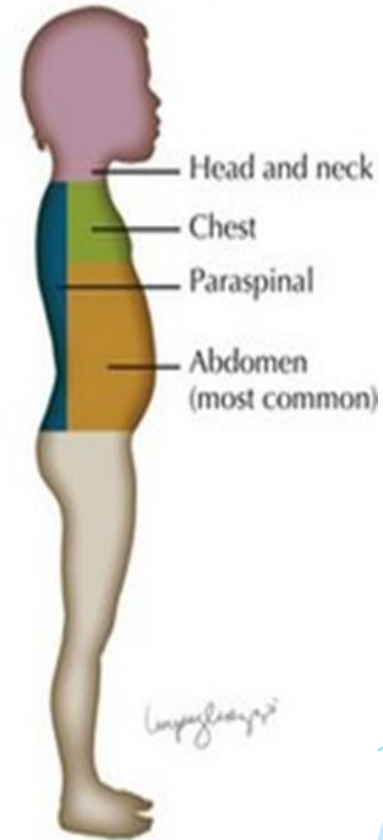


CT, abdominal tumor

Radiology images courtesy of Lisa States,  
MD Children's Hospital of Philadelphia



Common sites of primary tumor



# Teratomas

Sacrococcygeal Teratoma





# Liver Tumors

(Hepatoblastoma & hepatocellular carcinoma)

