Management of the Newborn with ARM

Luis de la Torre, MD

The 66th Workshop for the Surgical Treatment of Colorectal Problems in Children



What is the first and most important objective you need to do in a newborn with an anorectal malformation?

Evaluate the sacral ratio to notify the parents about the prognosis of the fecal control
 Discard life-threatening malformations
 Decide if you do a colostomy
 Decide if you do an anoplasty
 Identify if the patient has a clinically evident fistula



Life-threatening associated anomalies ?
Colostomy or anoplasty?



Does the baby have a clinically evident fistula?











Associated Defects

What is the most frequent congenital malformation associated in patients with imperforate anus?

Atrial septal defect
 Tethered cord
 Hemi-sacrum
 Hydronephrosis
 Esophageal atresia



Associated Defects

Abdominal/kidney ultrasound

- Hydronephrosis? (50%)
- Hydrocolpos? (30%)
- Echocardiogram (30%)
- GI Defects 8% EA, 3% duodenal atresia
- Lumbar spine
- Sacrum hemi-sacrum and sacral ratio
- Spinal ultrasound

• Tethered cord? (25%)

How many hours do you wait to perform a <u>colostomy</u> or an <u>anoplasty</u>?

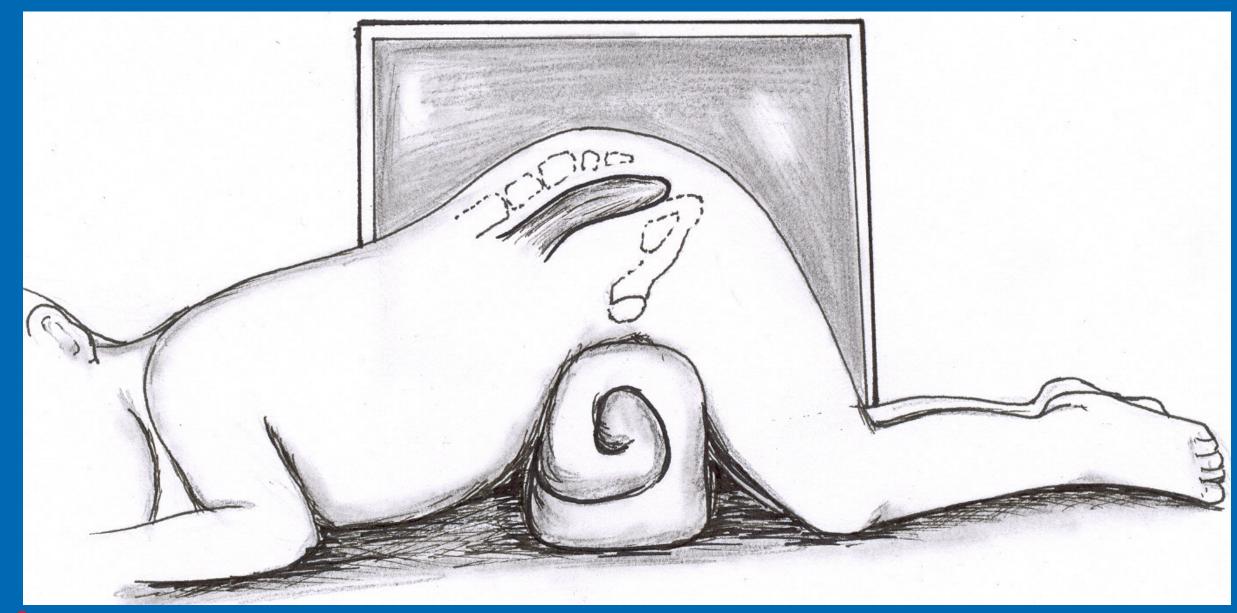
- 1. 48 hours
- 2. 12 hours
- **3.** 24 hours
- **4.** 36 hours
- **5.** 72 hours



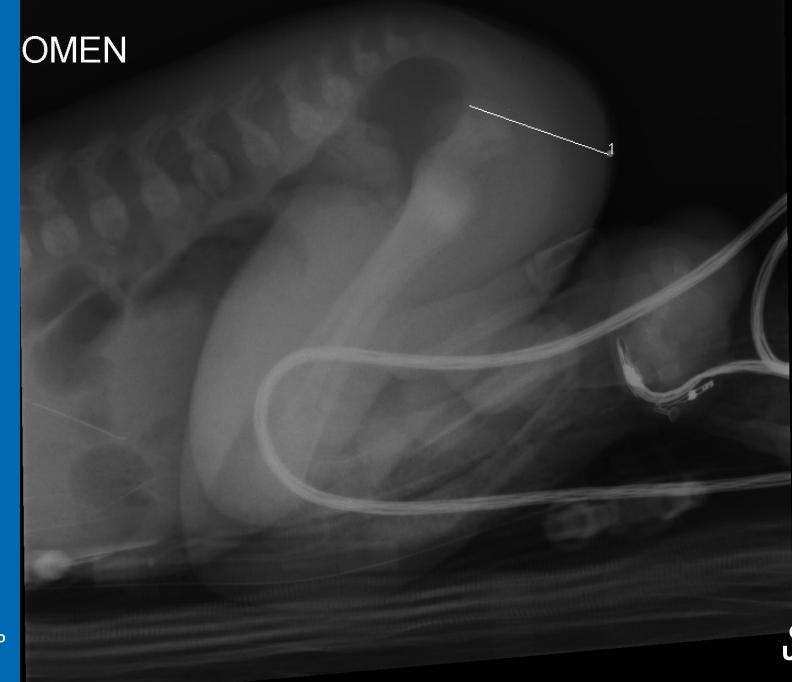
Colostomy vs. Anoplasty

- Wait 24 hrs
- Meticulous Inspection of perineum
- Urinalysis, meconuria
- Crosstable lateral film

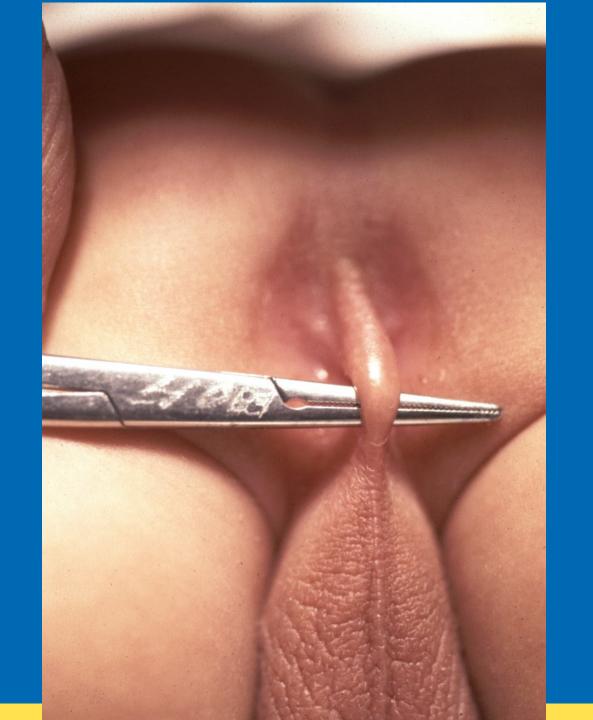








Children's Hospital Colorado Here, it's different.™





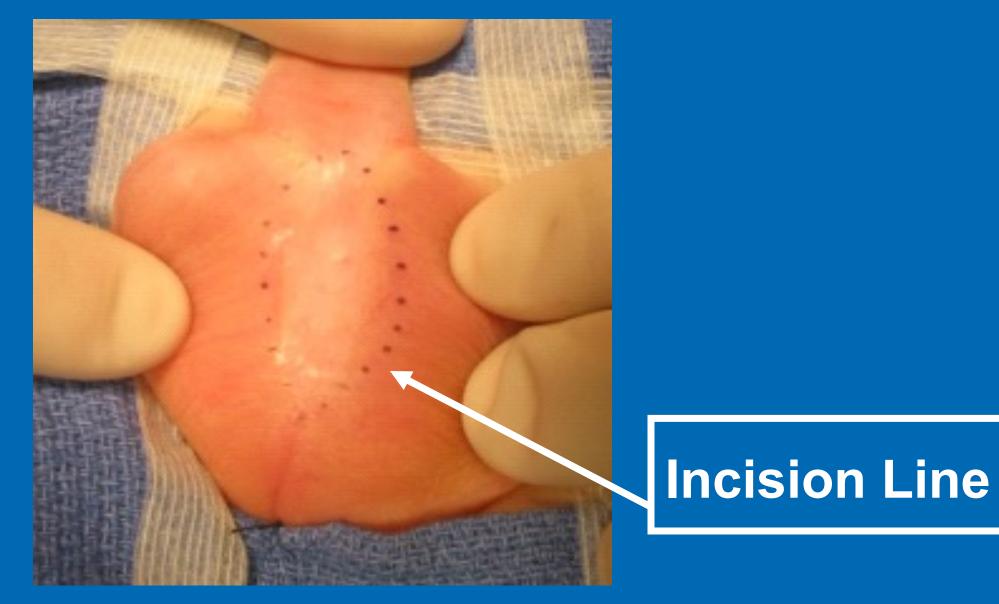




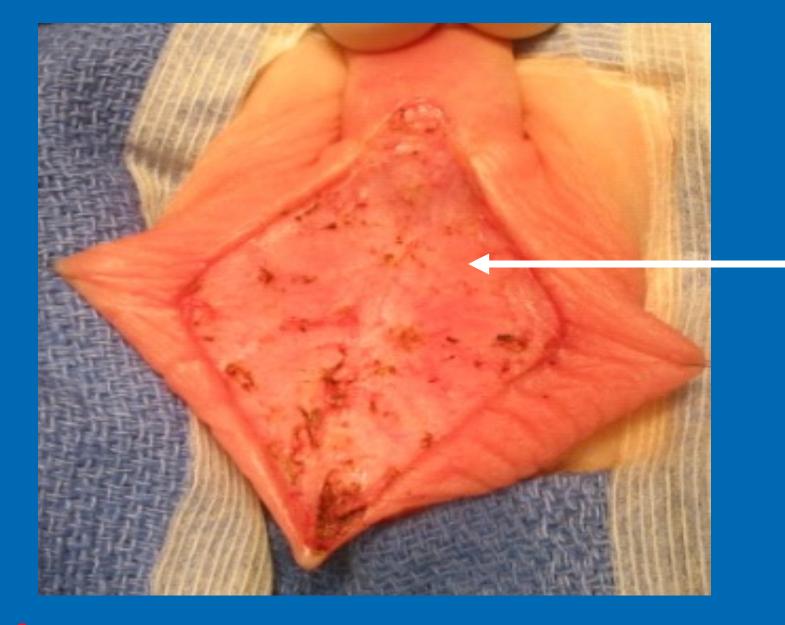
Bifid Scrotum











Abnormal resected skin

Children's Hospital Colorado Here, it's different.™

Final Aspect



Children's Hospital Colorado Here, it's different.™

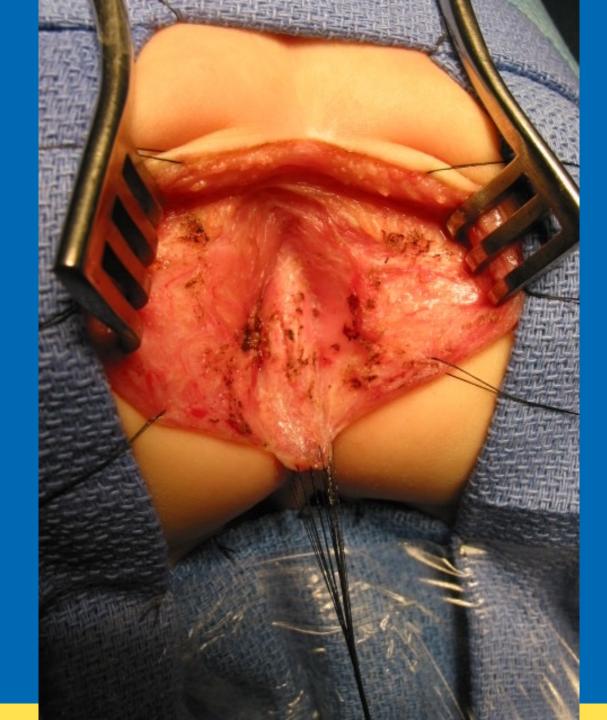




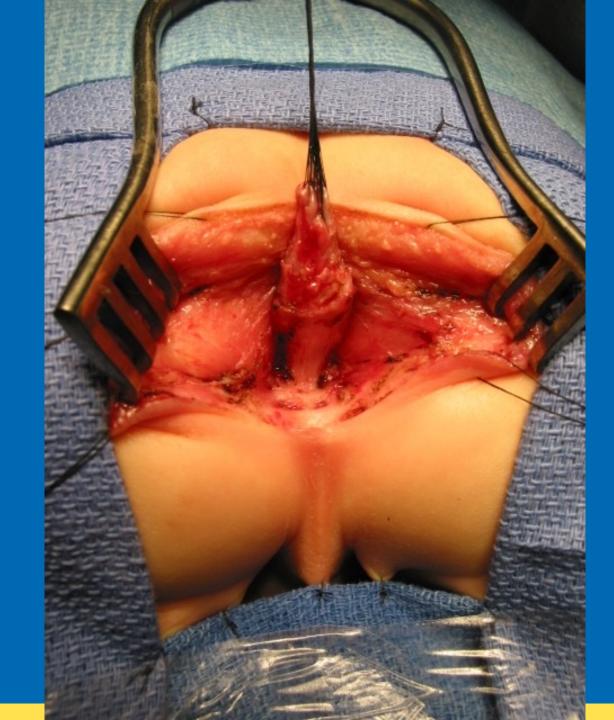


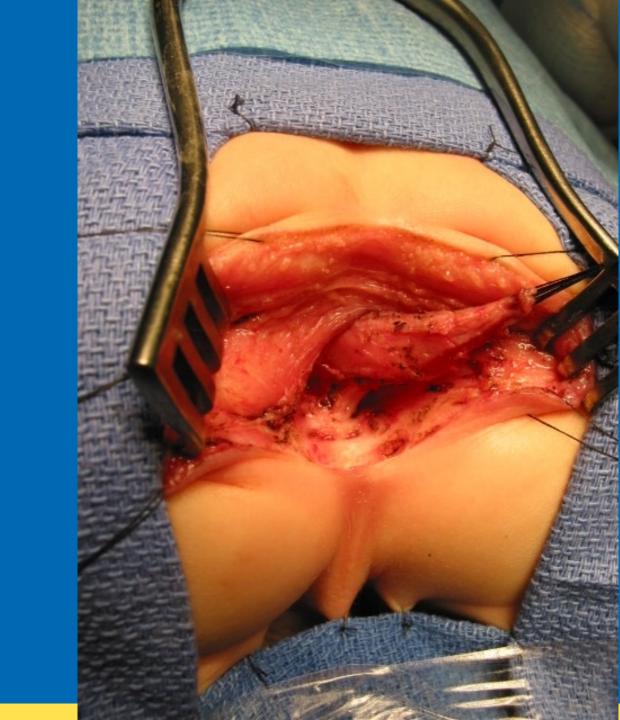




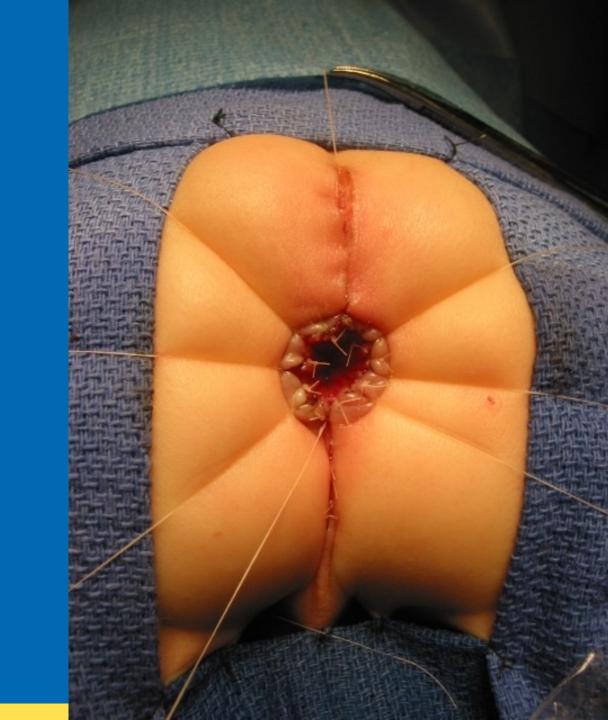










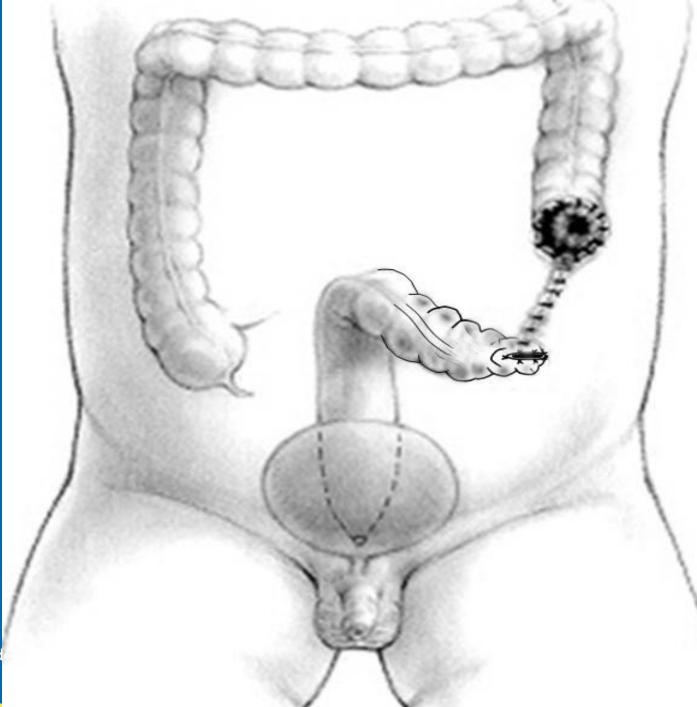




Which is the type of colostomy recommended in patients with an anorectal malformation?

Loop colostomy
 End colostomy and Hartmann's pouch
 Sigmoidostomy with mucous fistula
 Proximal descending colostomy with mucous fistula
 Distal descending colostomy with mucous fistula



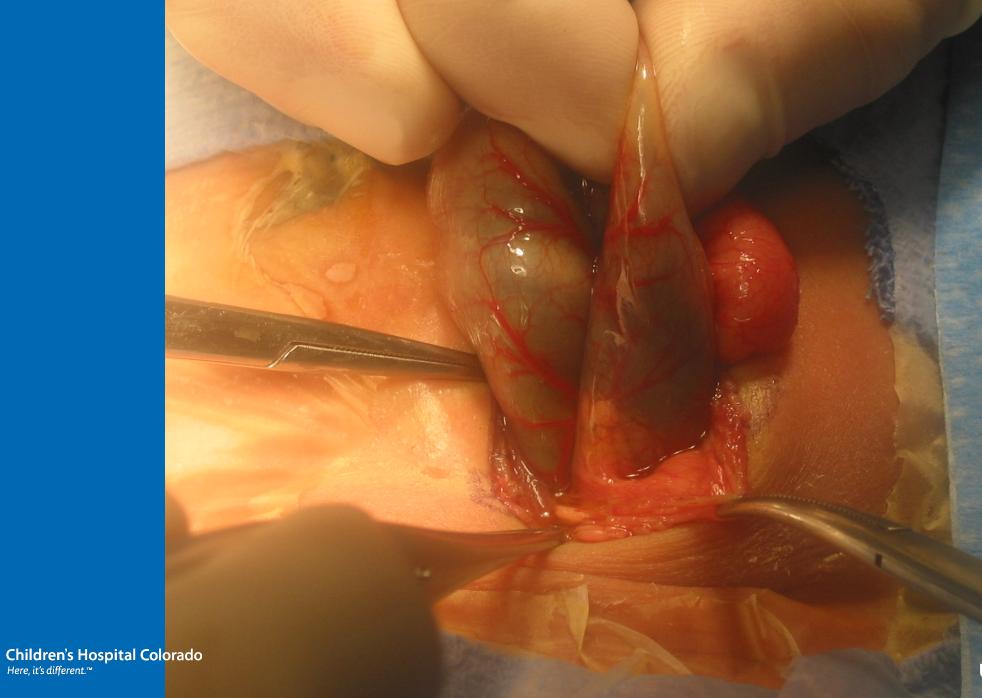






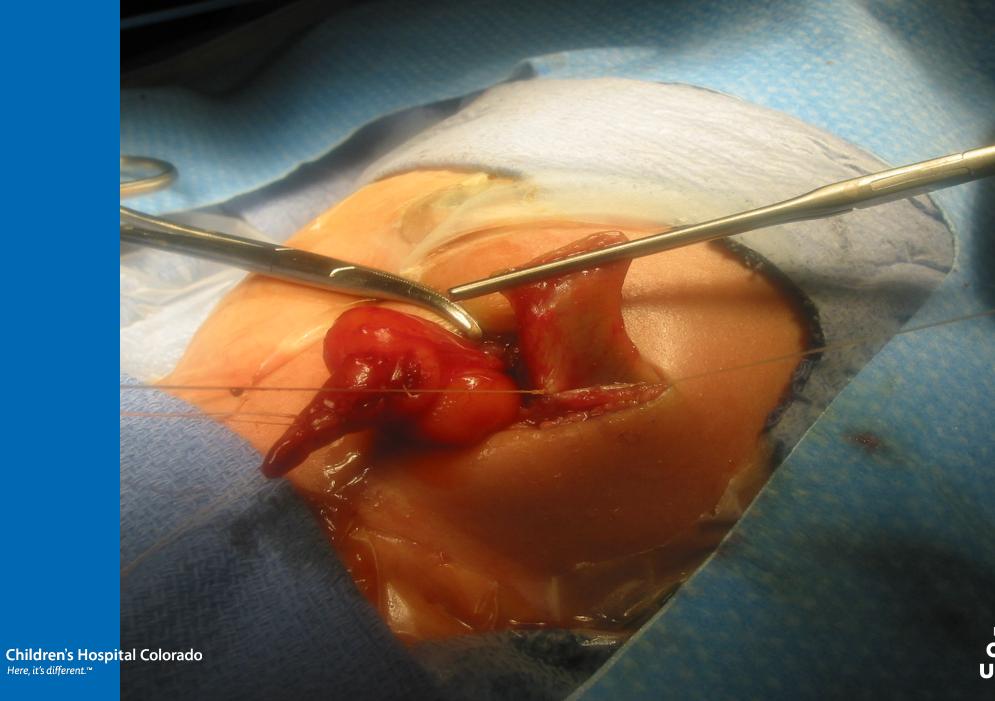














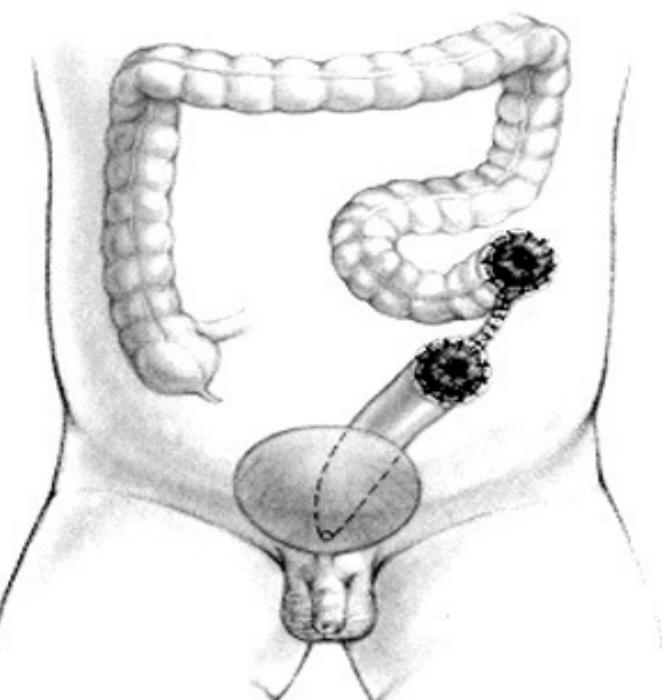






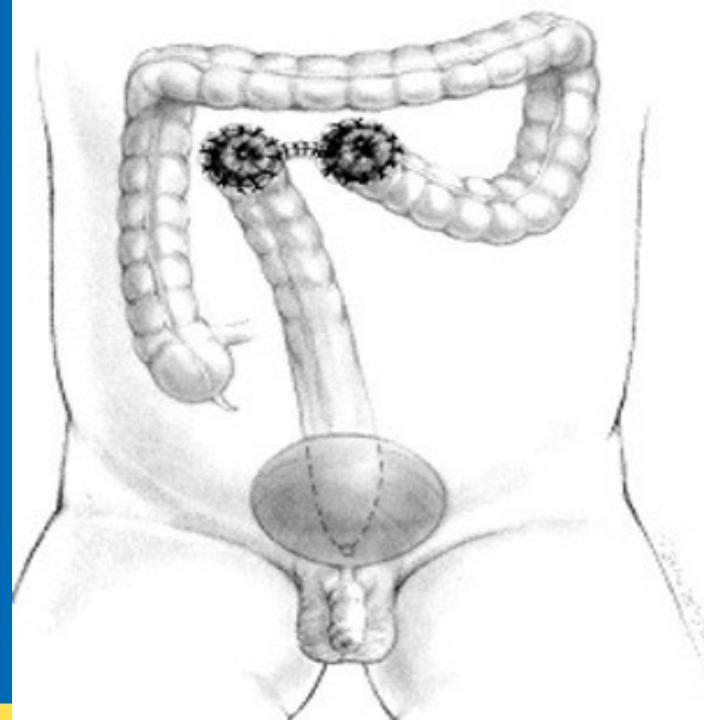








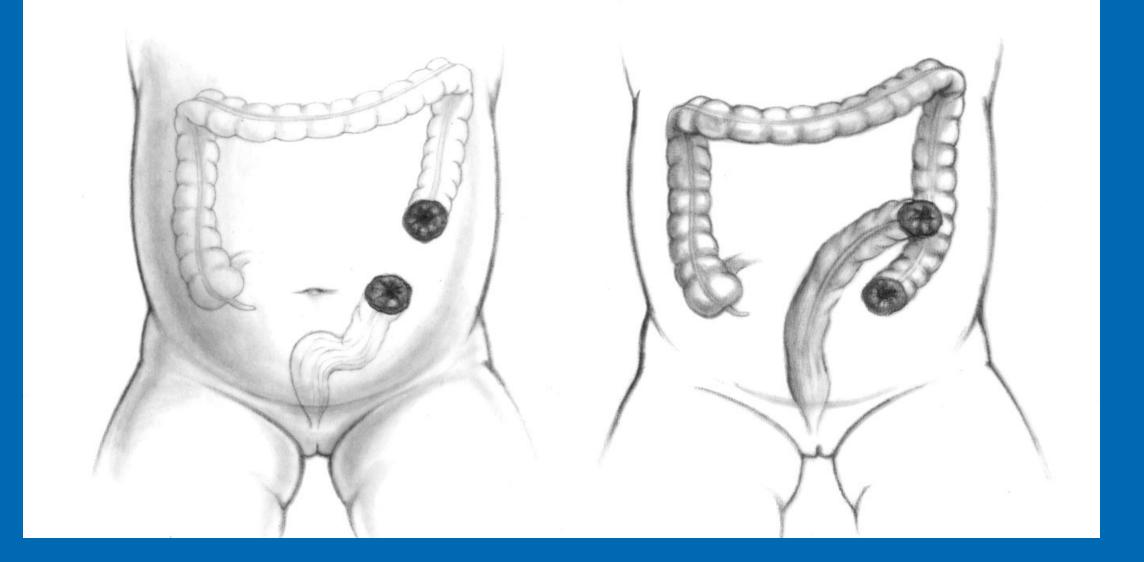




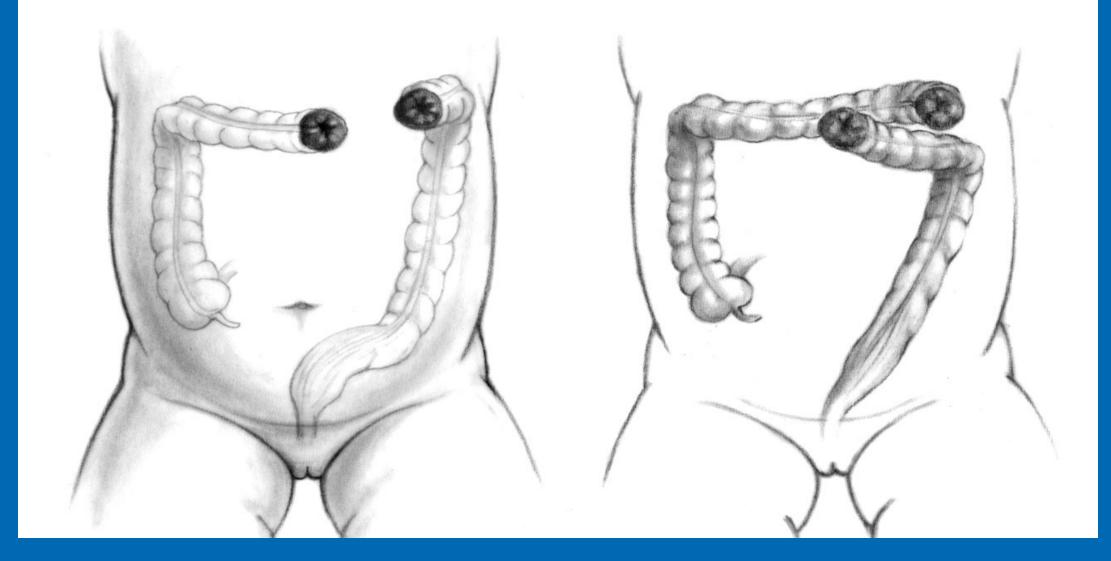




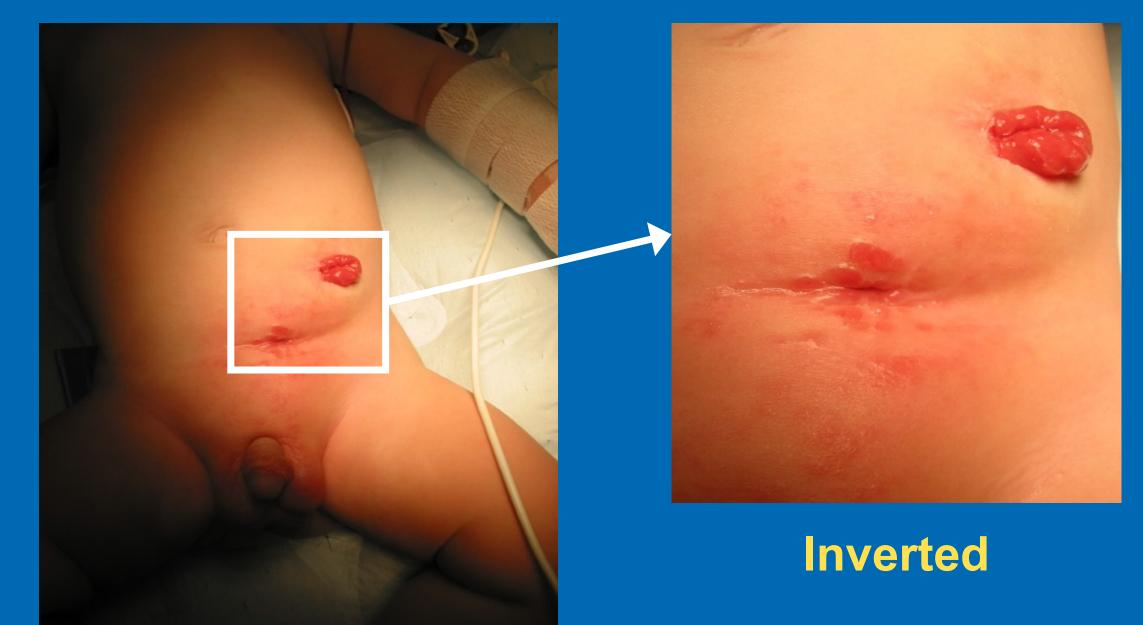














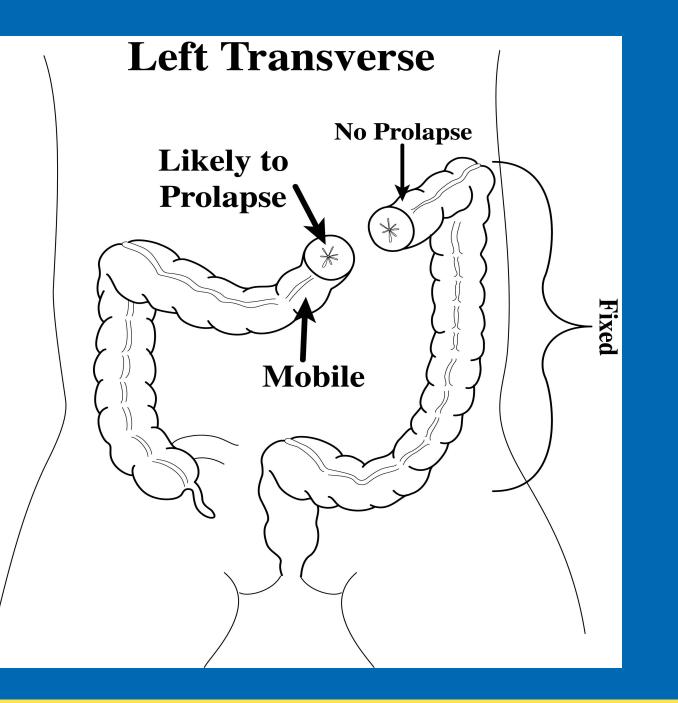




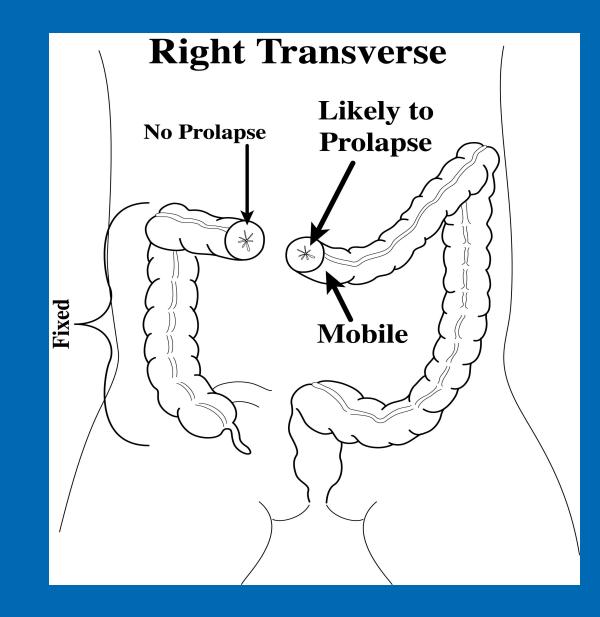




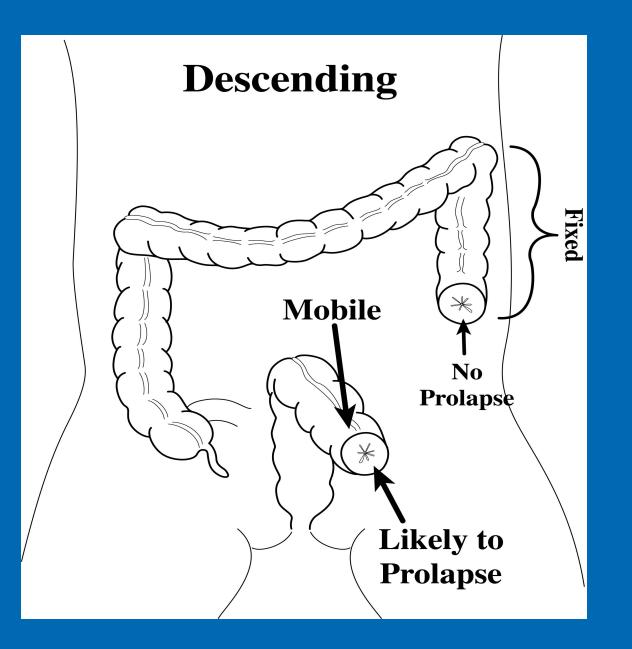
























Children's Hospital Colorado Here, it's different.™ 

alberto.pena@cuanschutz.edu

andrea.bischoff@cuanschutz.edu

luis.delatorre@cuanschutz.edu

