Management of Anorectal Malformation in Male Patients Alberto Peña, MD

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



Can you see them?

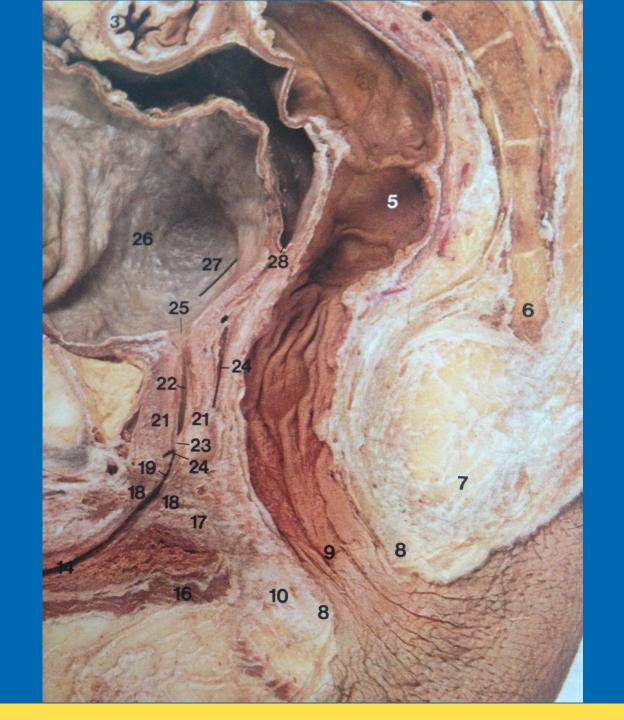


Anxious Medical Student

- Levator muscle
- Puborectalis
- Pubourethralis
- Pubococygeous
- Ileococcygeous
- Ischiococcygeal
- Deep external sphincter
- Superficial external sphincter

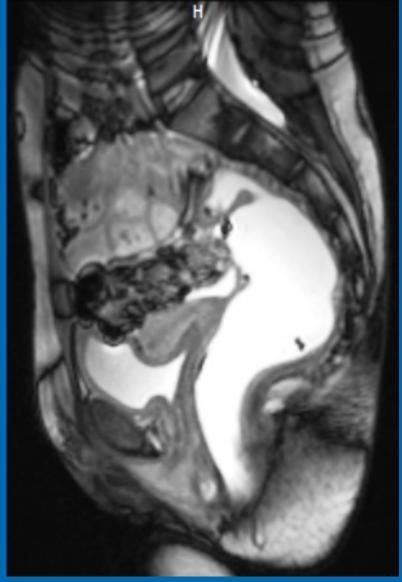




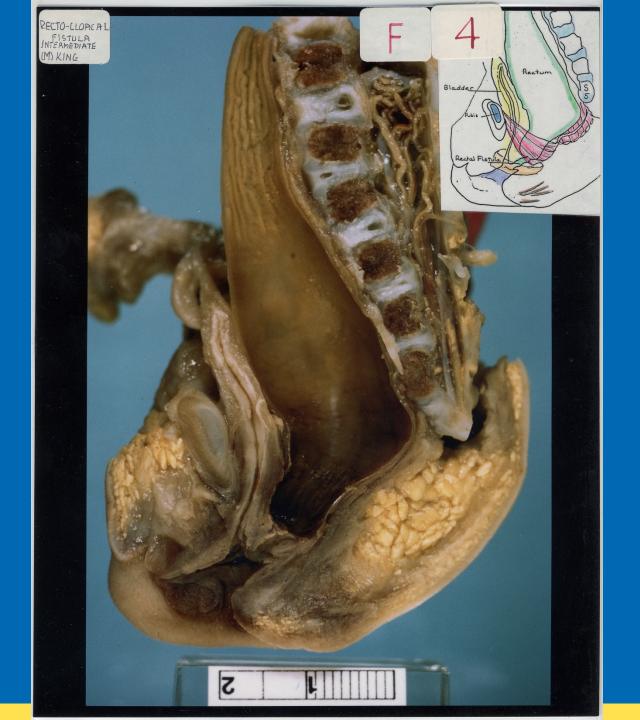








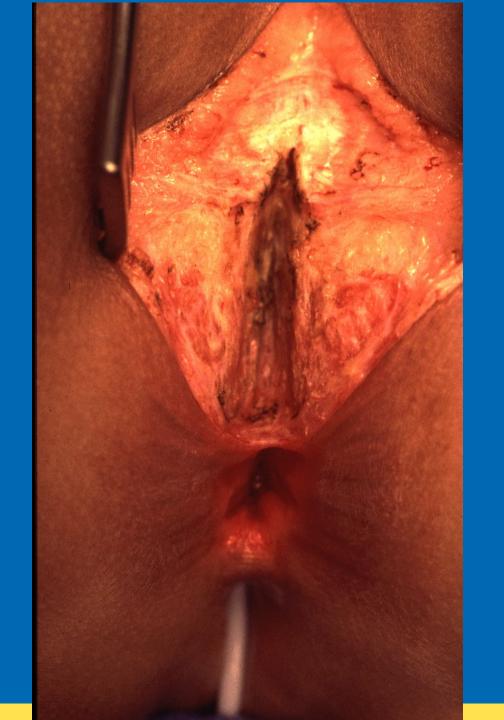












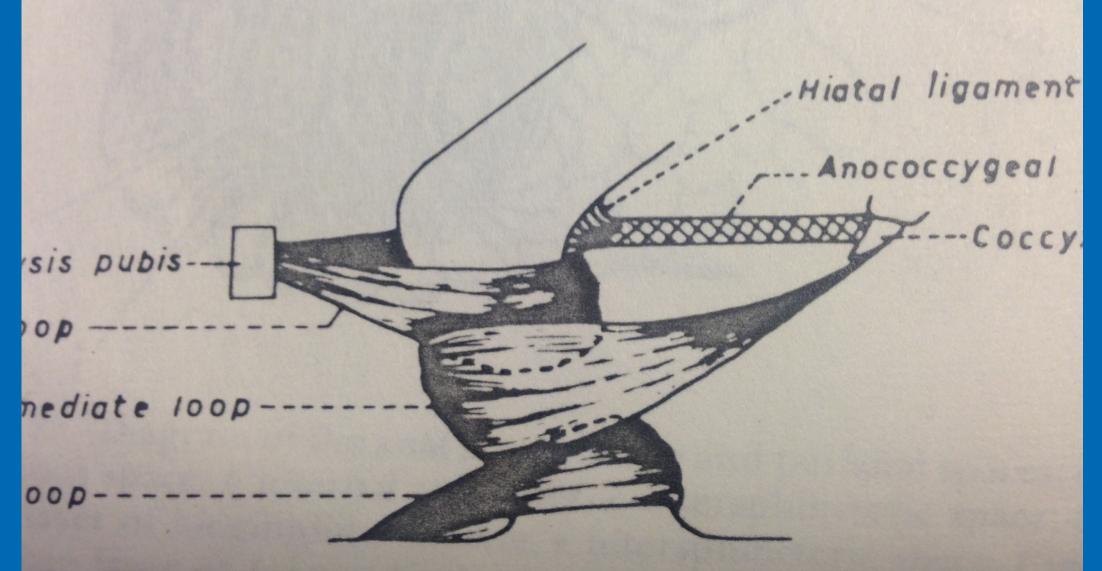






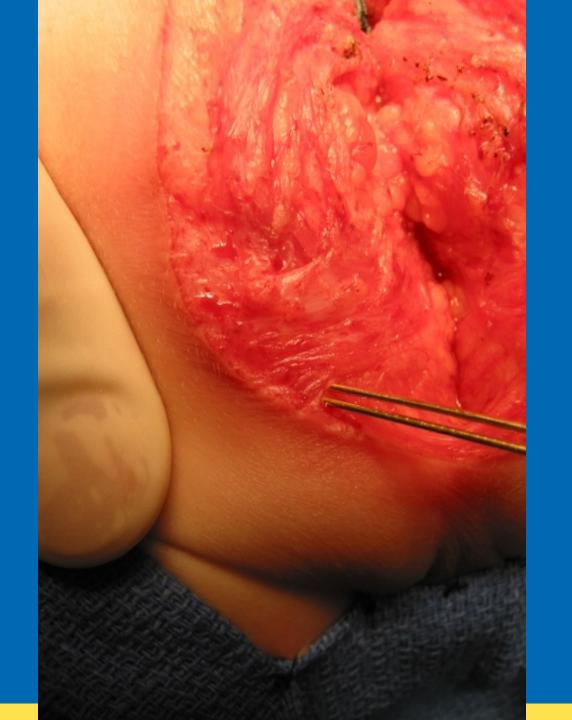




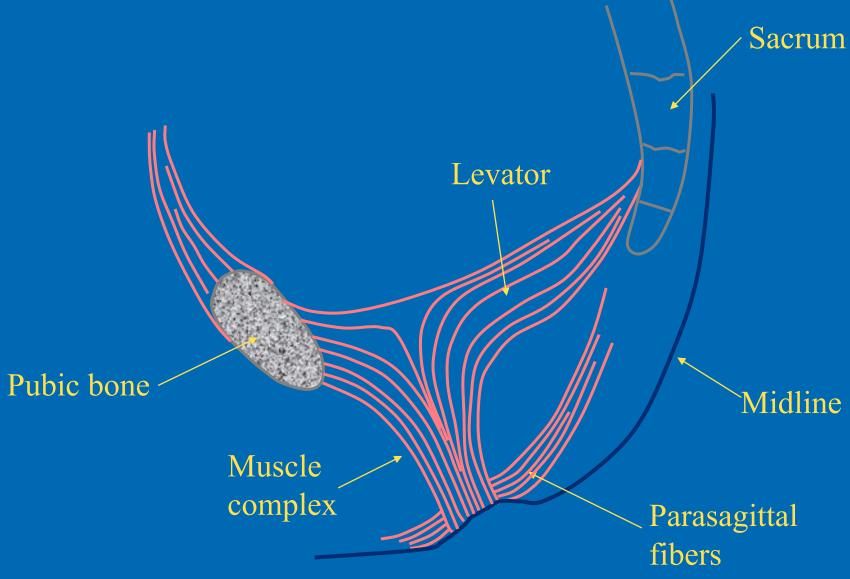


1. Triple loop system of the external anal sphincter. (R CENTER FOR third from Shafik 18 with permission of author and publisher. AL CARE



















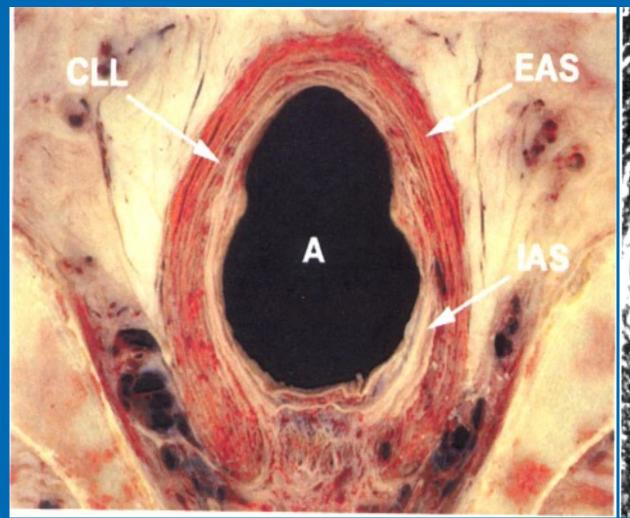


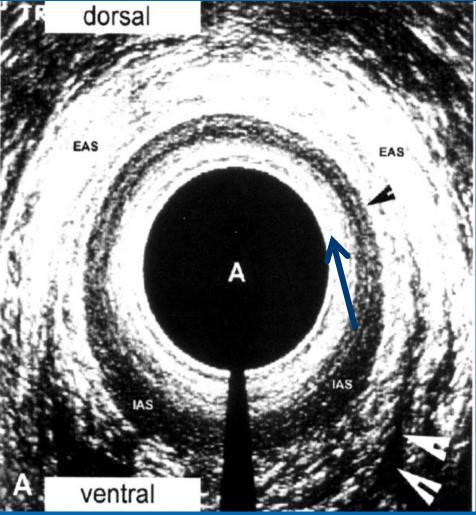


Internal Sphincter

- Very few good quality pictures
- No precise description of size and limits
- Mainly manometric concept
- Some believe is important for bowel control
- Others believe it is not important
- Others believe it is responsible for idiopathic constipation





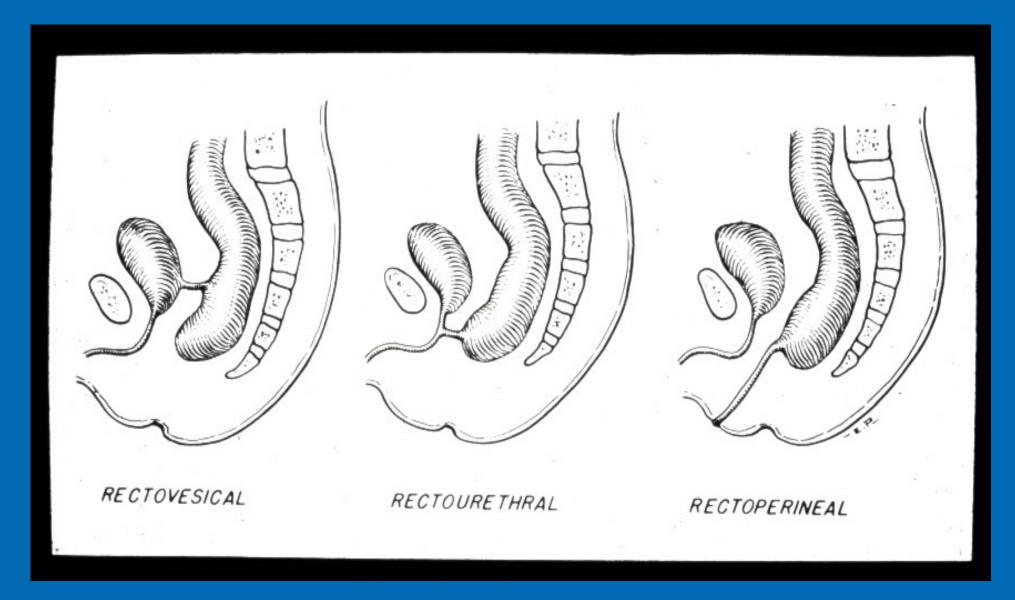




We were all blind believers

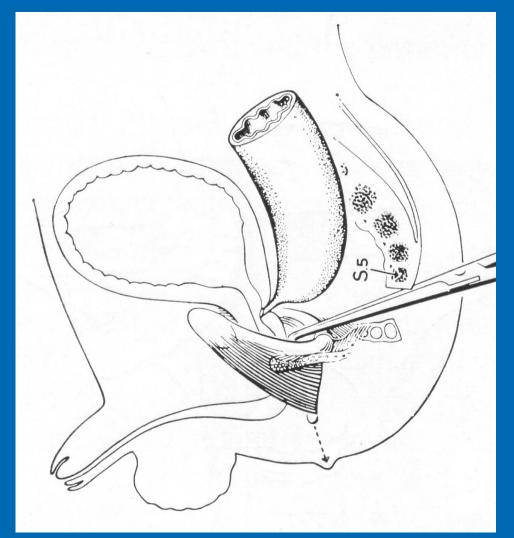


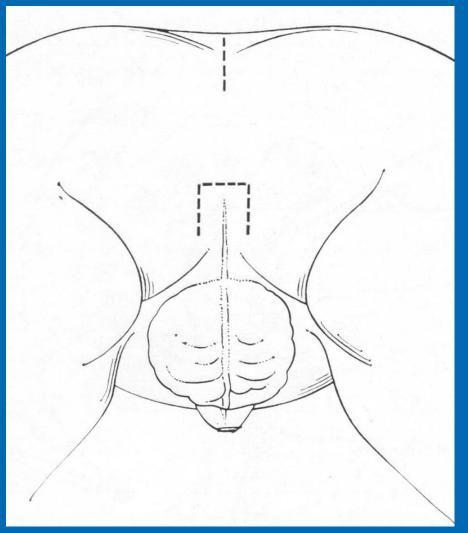




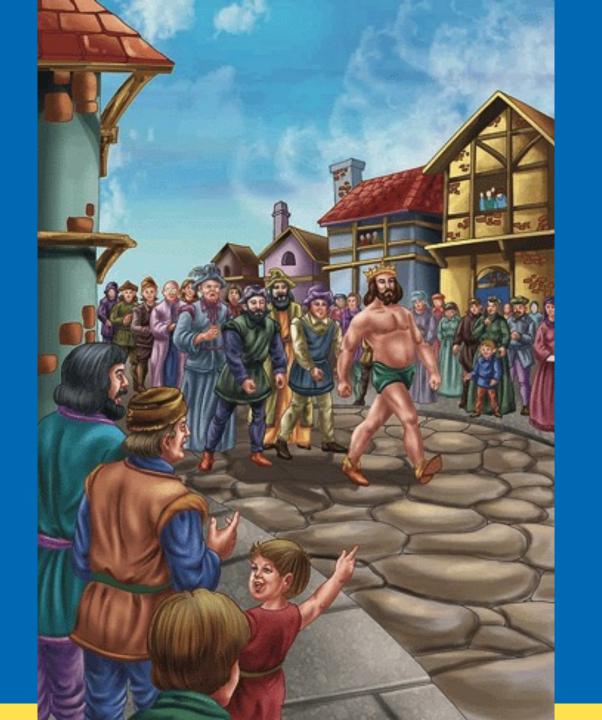


Stephens Repair: Sacroperineal, 1953









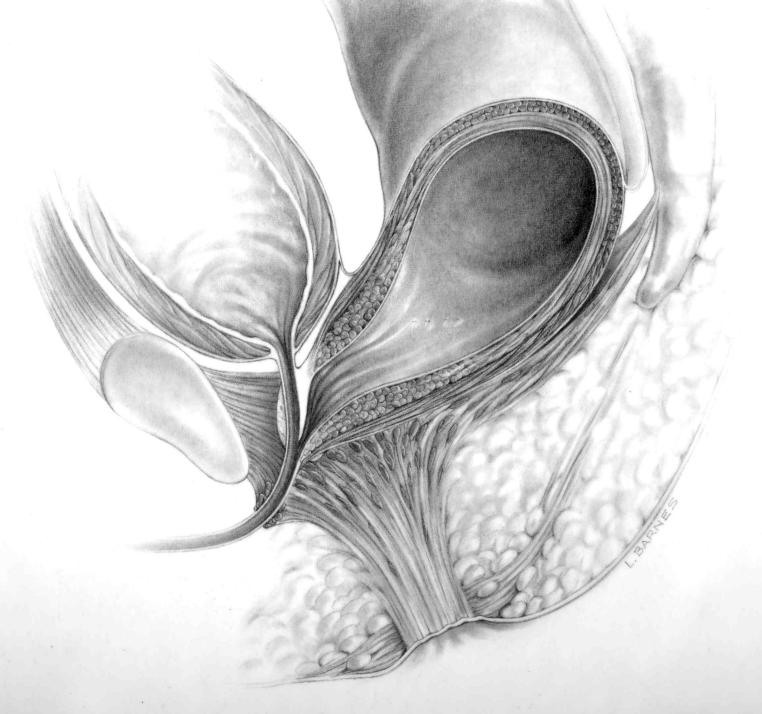




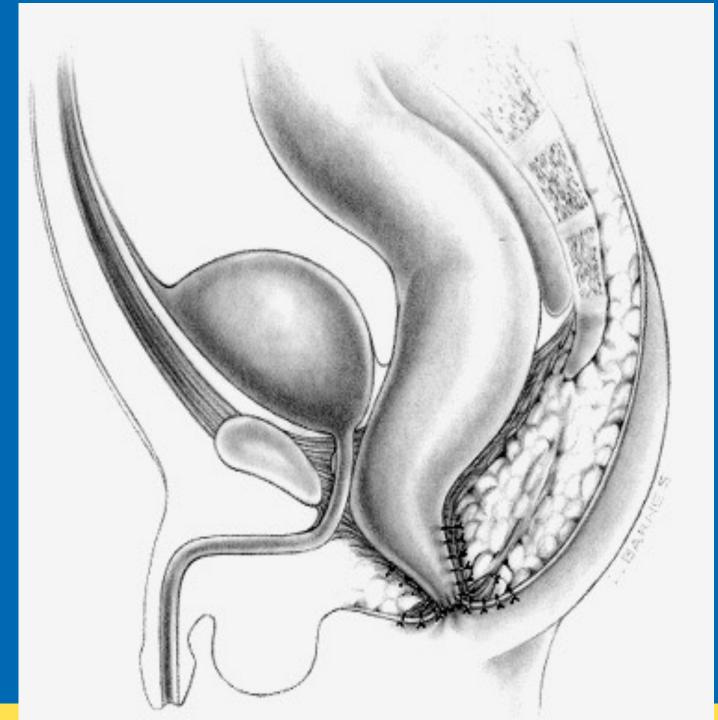
National Institute of Pediatrics - INP - Mexico DF













First Posterior Sagittal Exploration August 10th, 1980



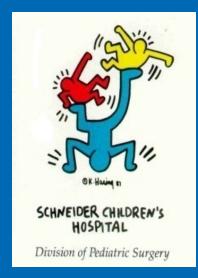
March 2022 - more than 3500 cases

... Many lessons learned



Spectrum of Anorectal Malformations

Children's Hospital Colorado International Center for Colorectal Care







Schneider Children's Hospital, New Hyde Park, NY July 1985



June 2005



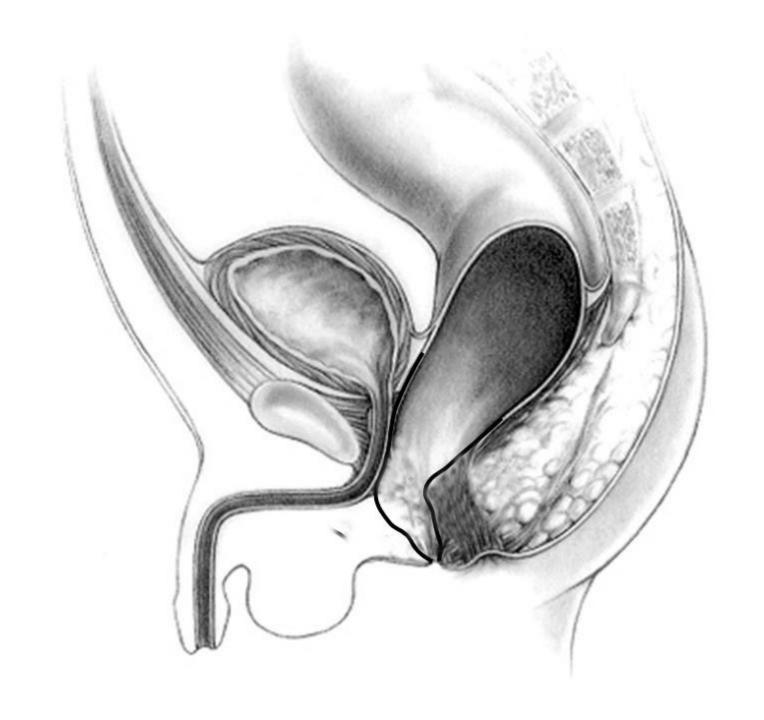
February 2016





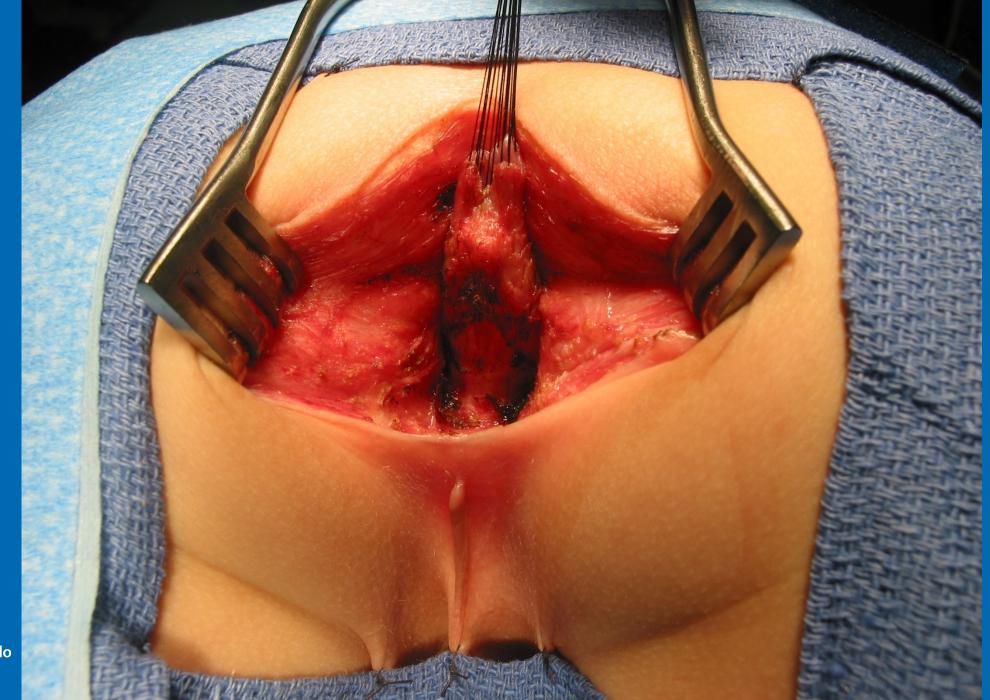
Low defect or Perineal fistula









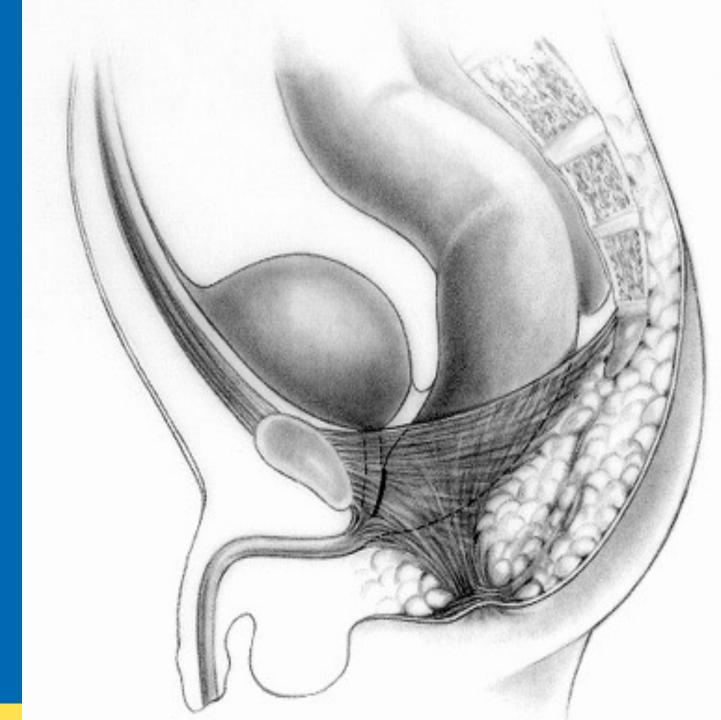






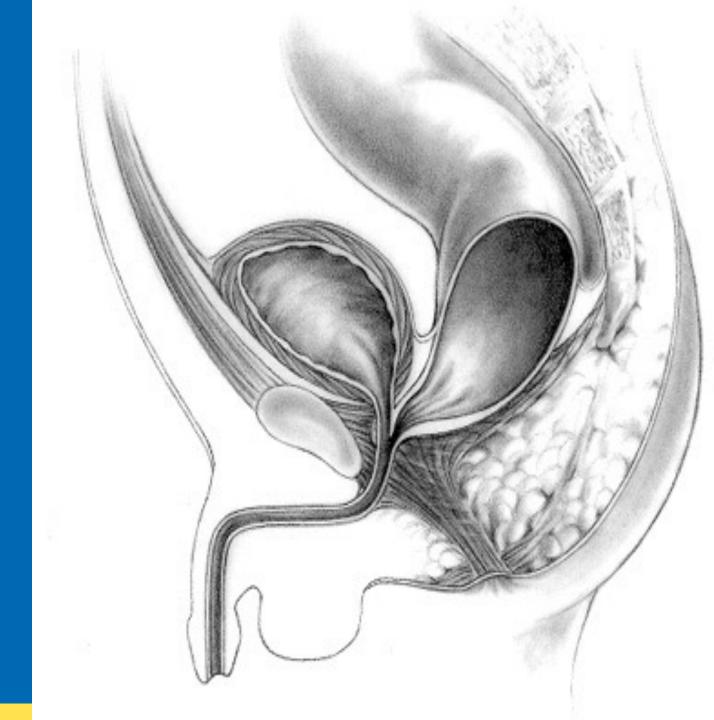


Rectourethral bulbar fistula



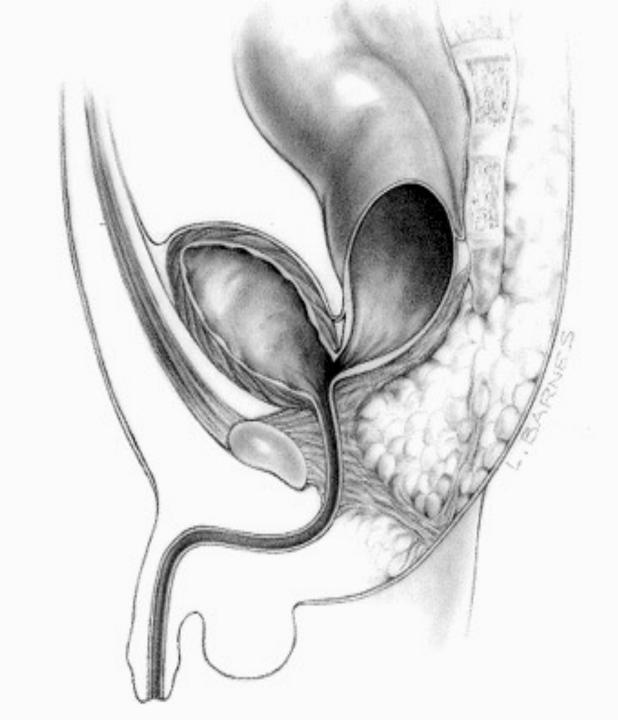


Rectourethral prostatic fistula



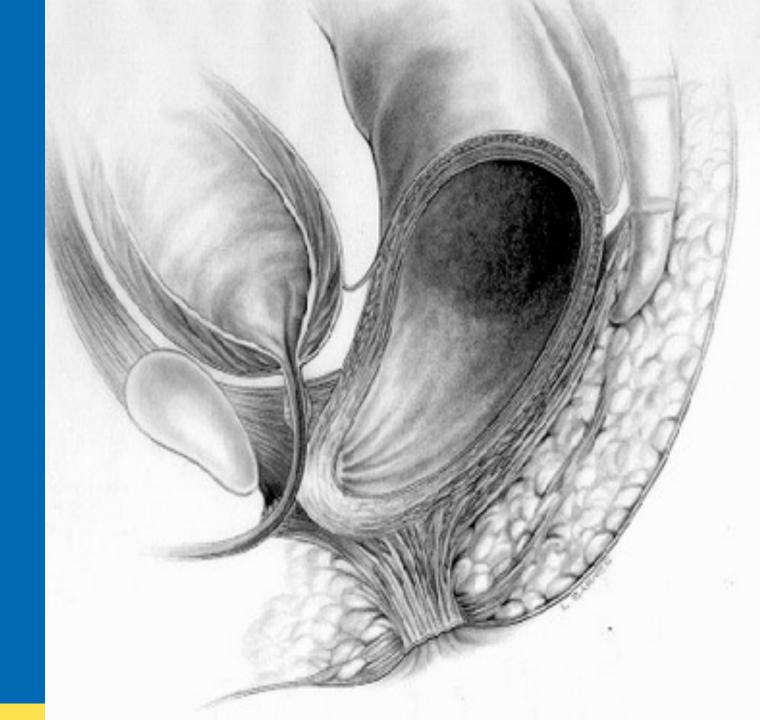


Rectobladderneck fistula





Imperforate anus without fistula





Males Classification

- Low defect or Perineal fistula
- Rectourethral bulbar fistula
- Rectourethral prostatic fistula
- Rectobladderneck fistula
- Imperforate anus without fistula



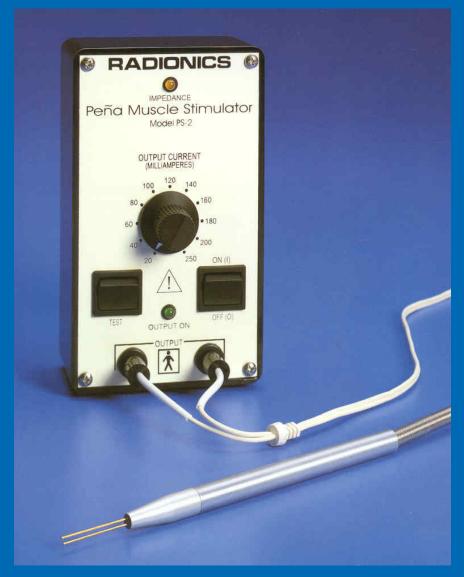














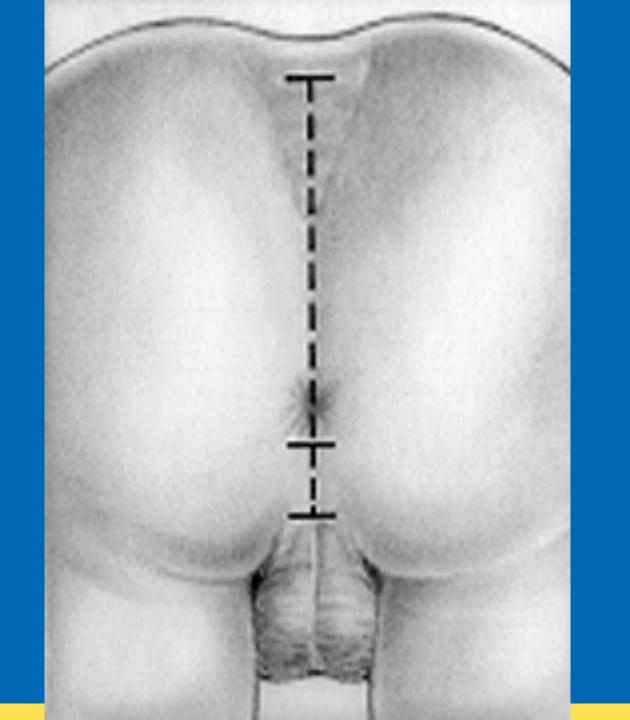
http://www.gpstep.org



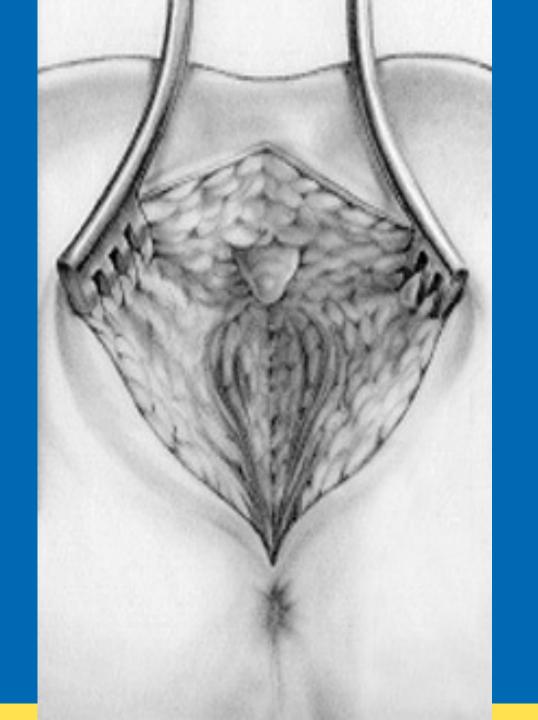
Bulbar Urethral Fistula







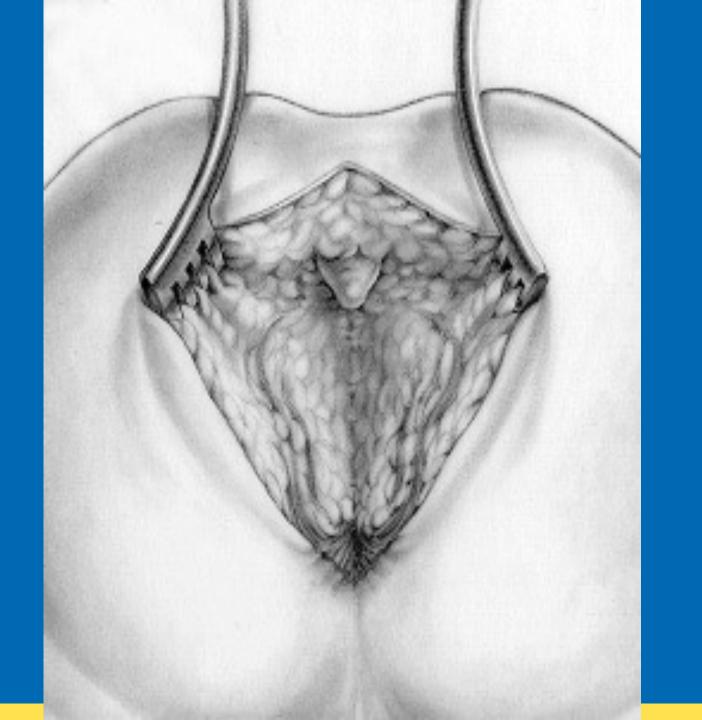








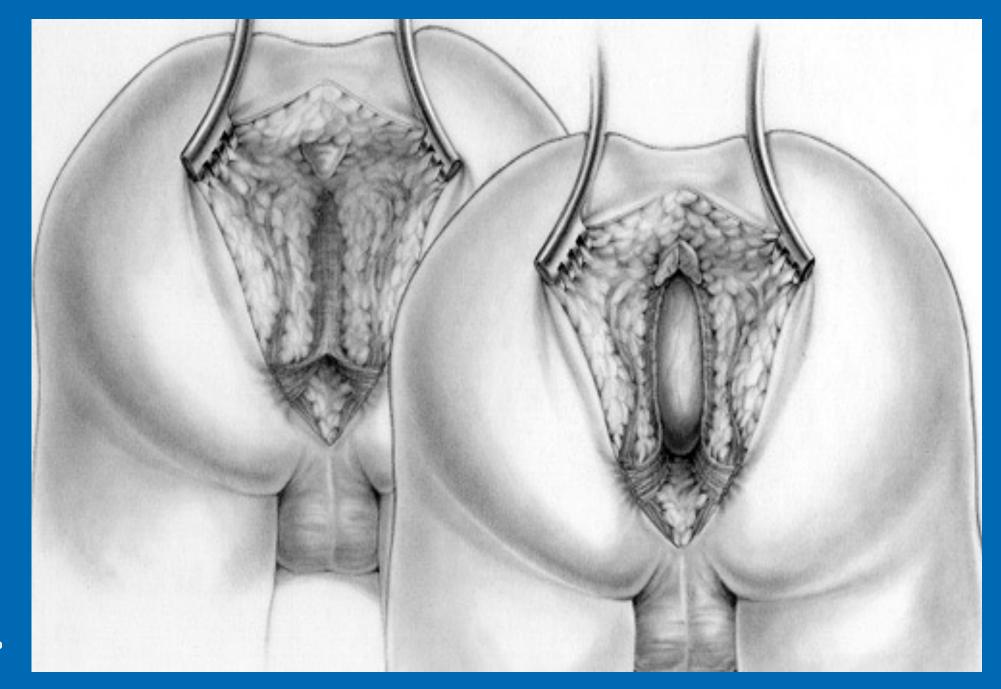




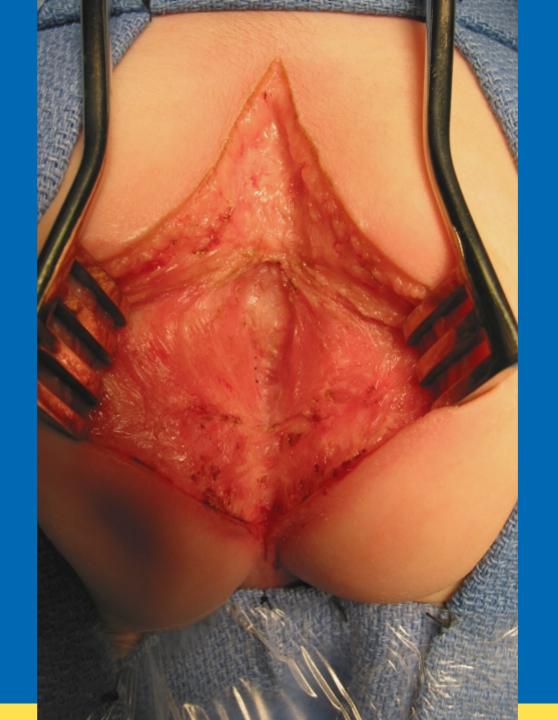




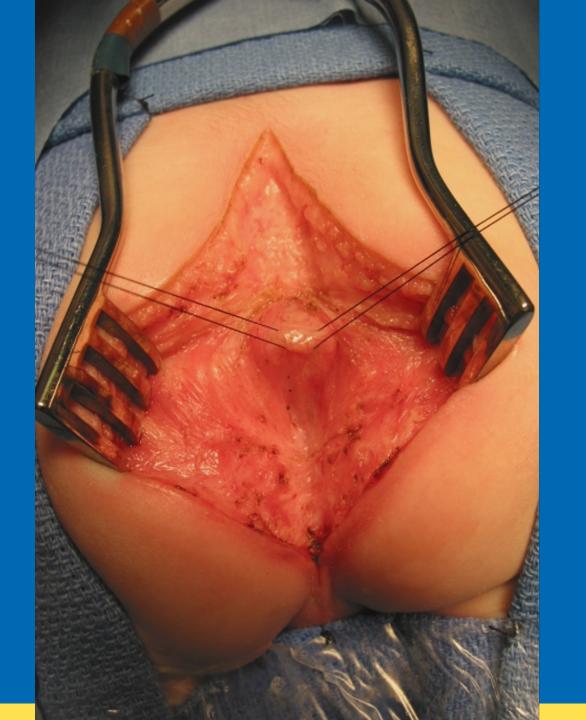




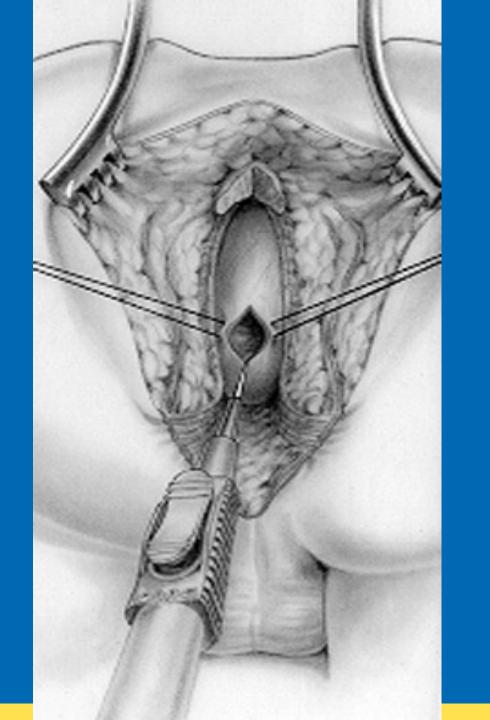




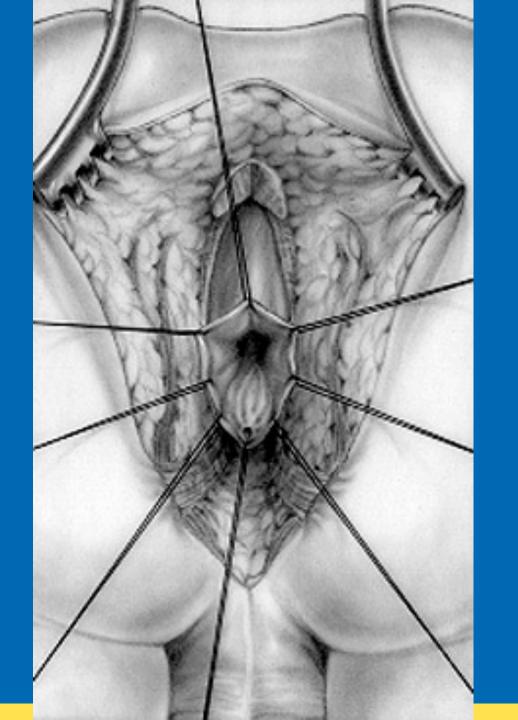




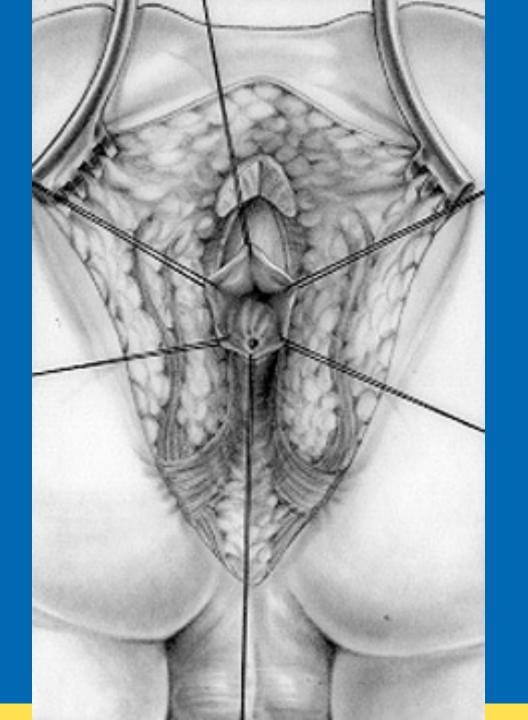




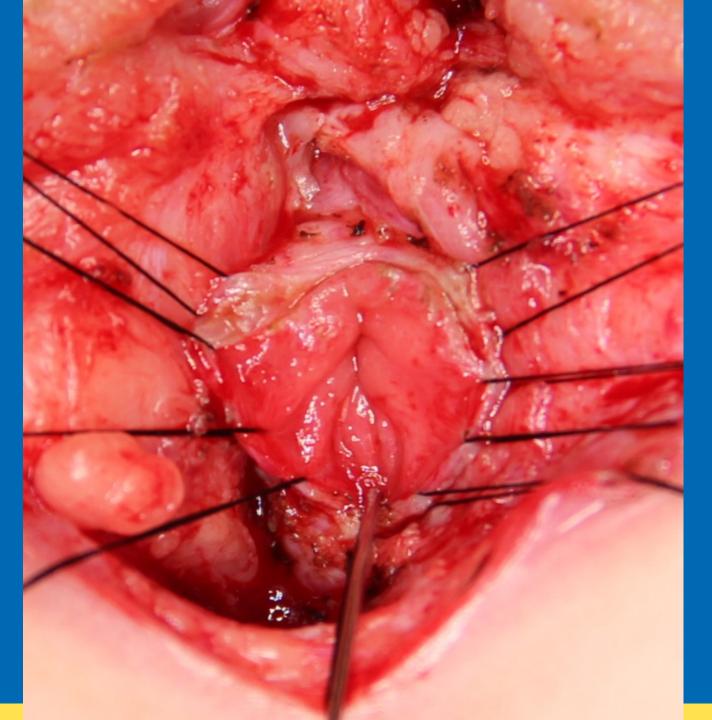








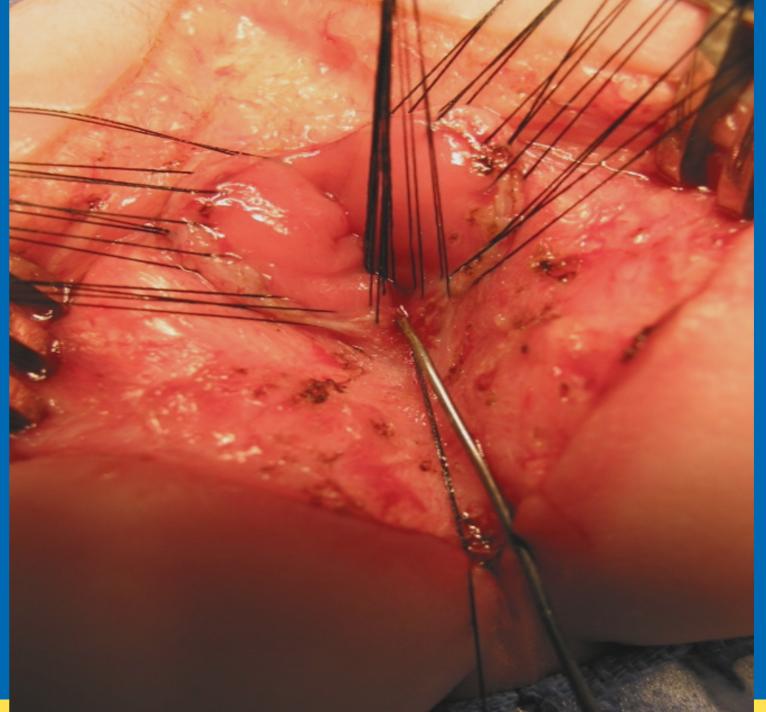




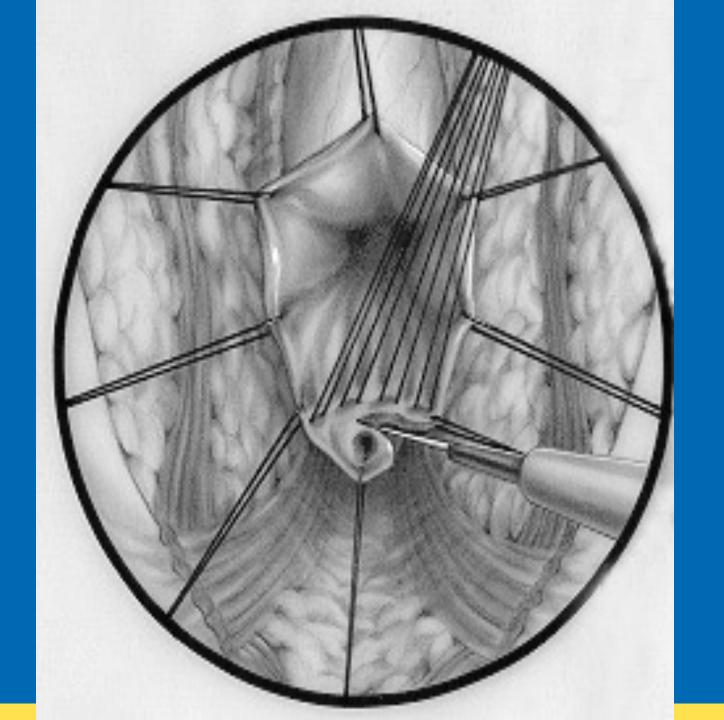




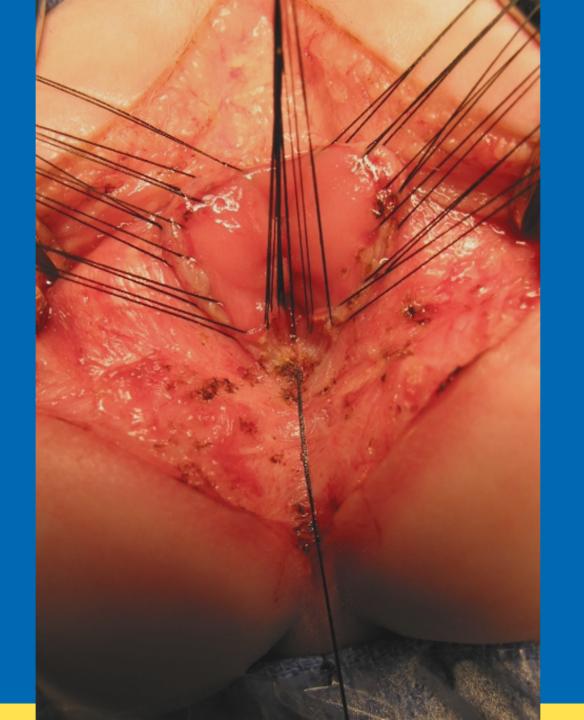




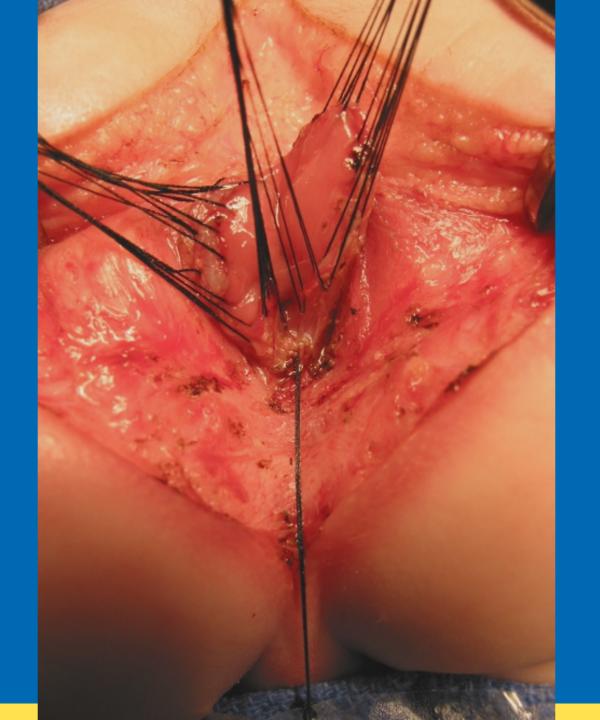












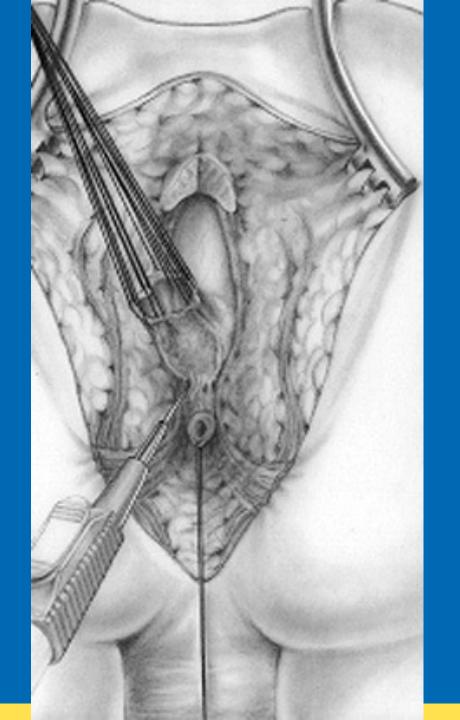
















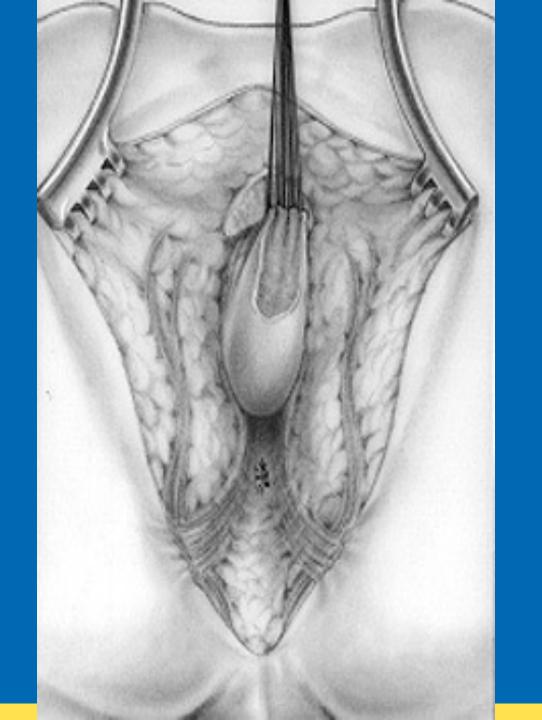




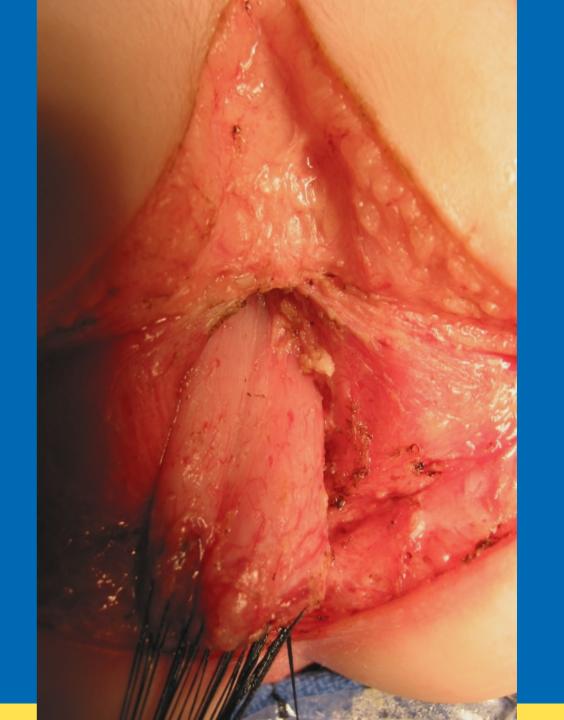




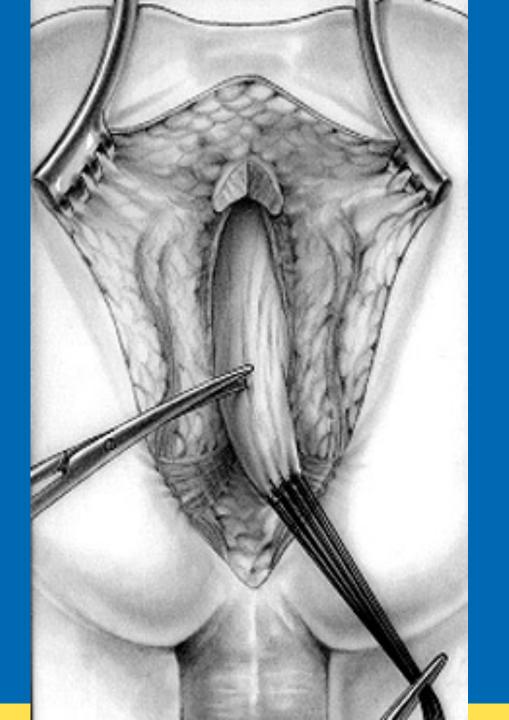




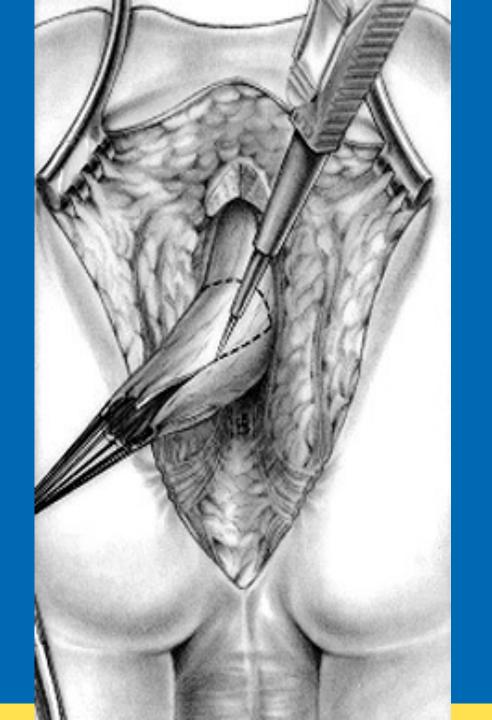




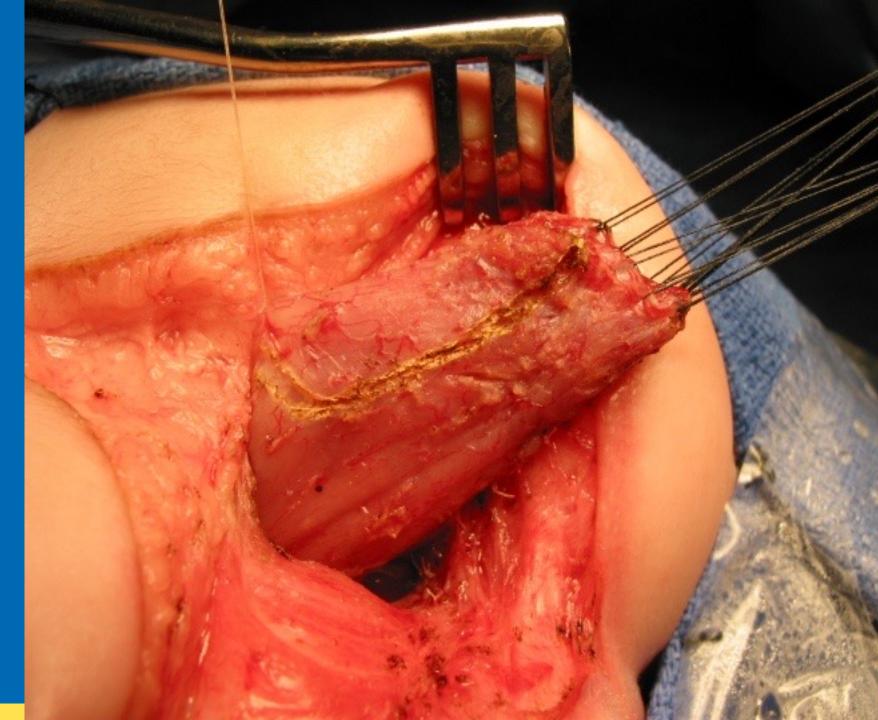




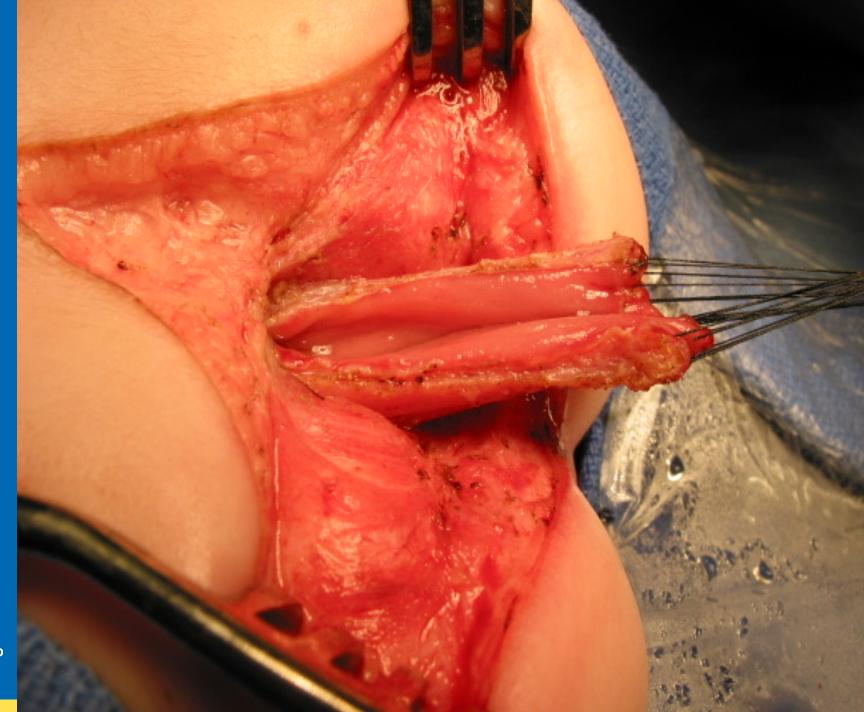




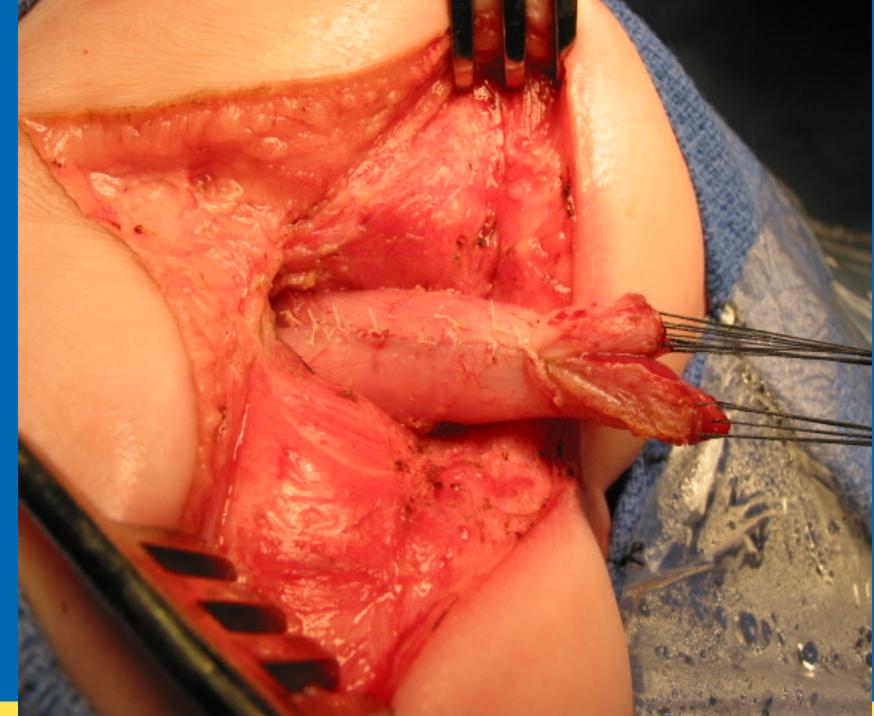






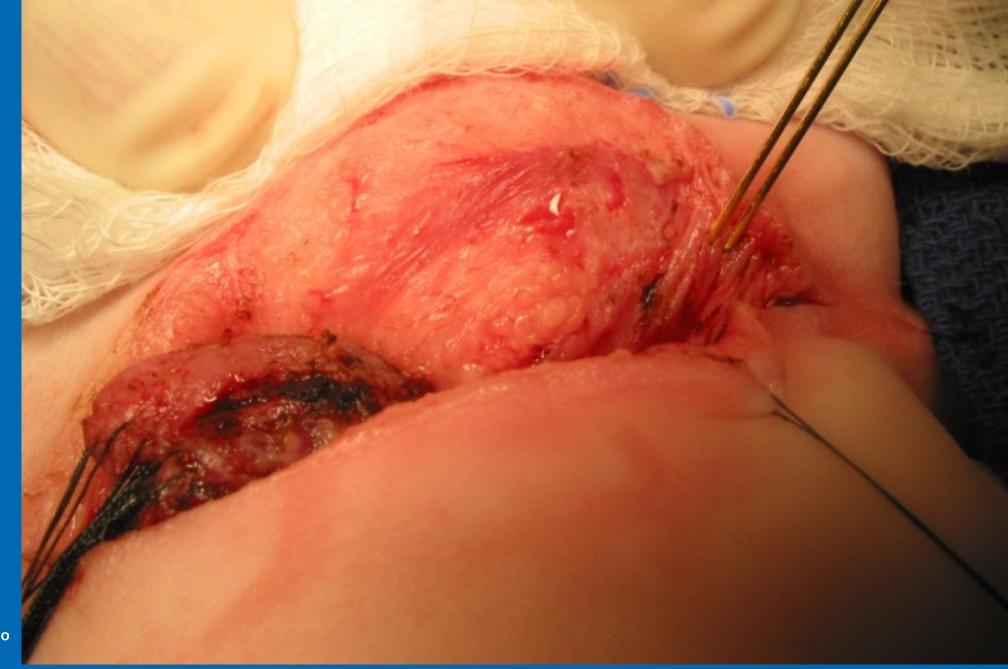








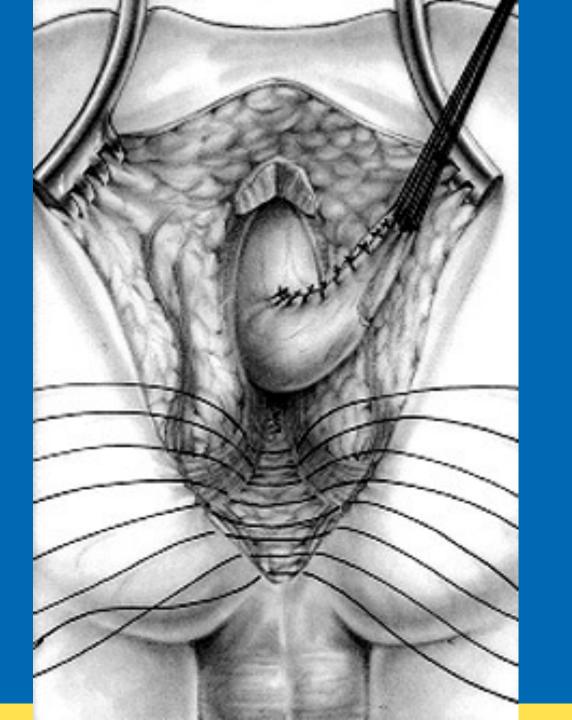




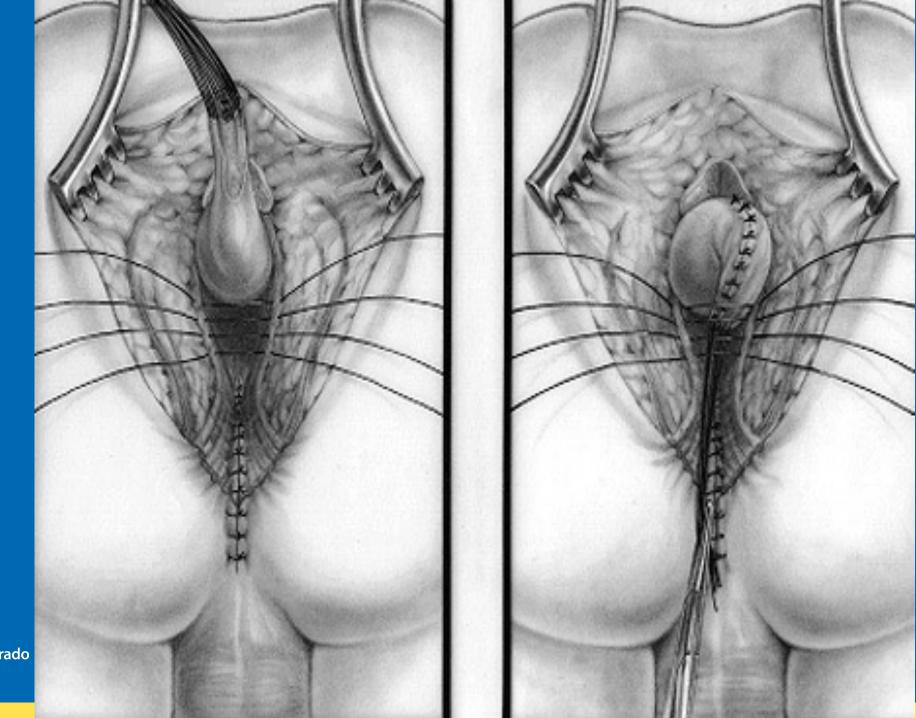




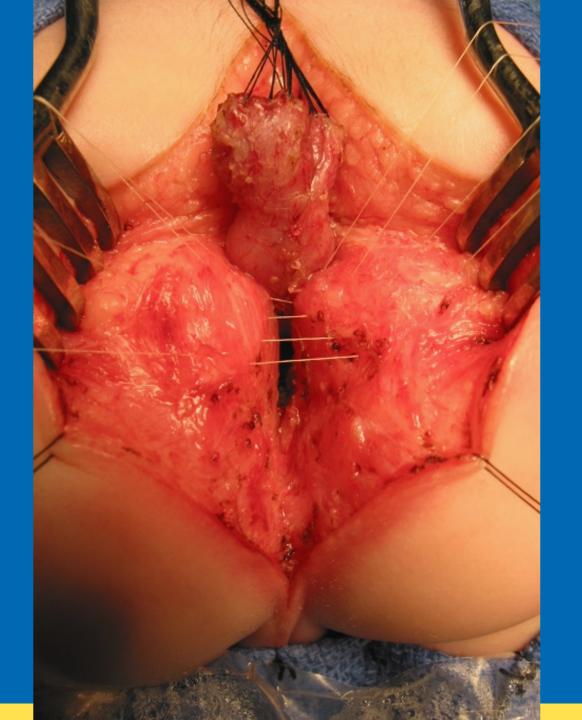








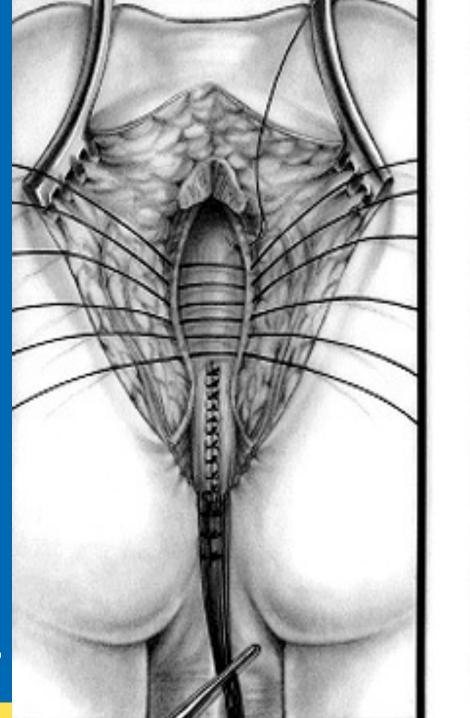


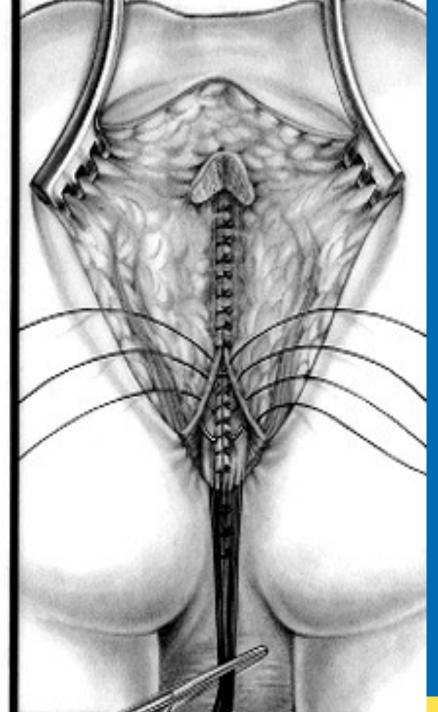




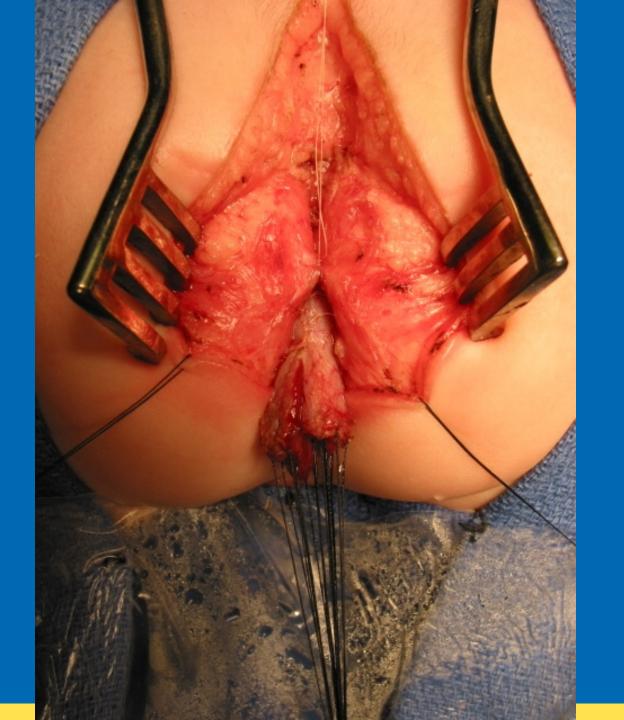




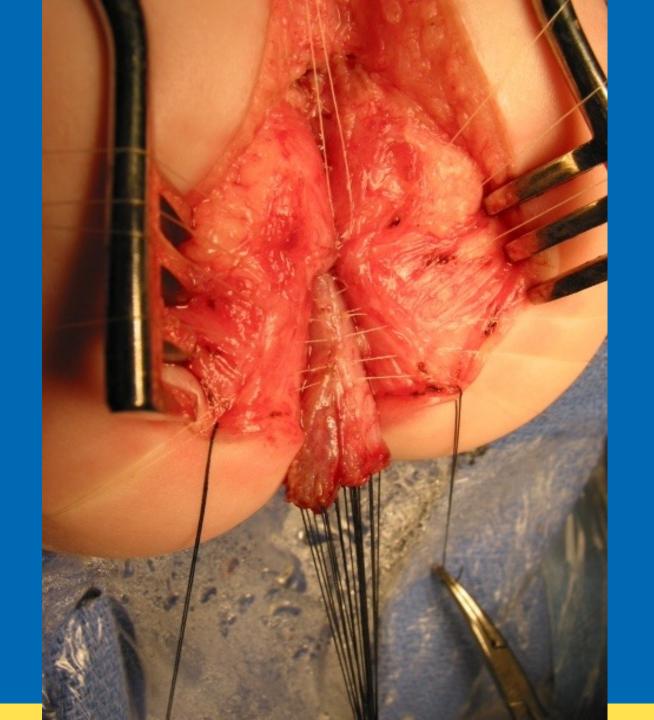
















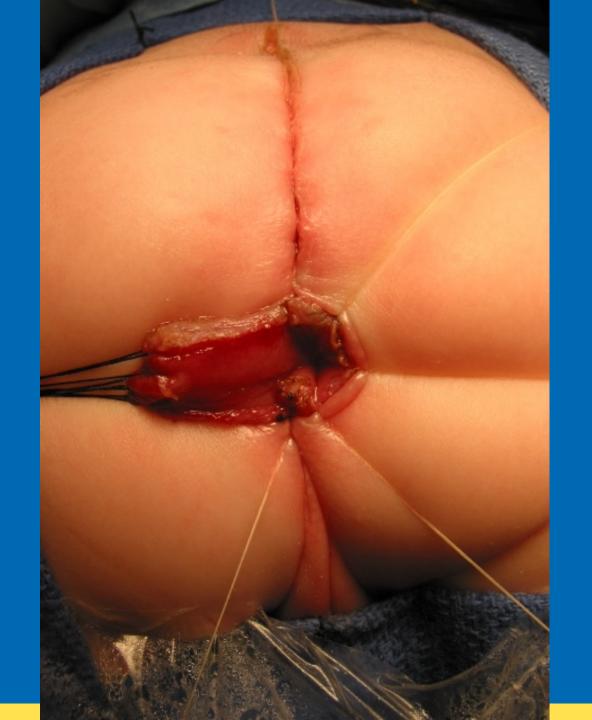








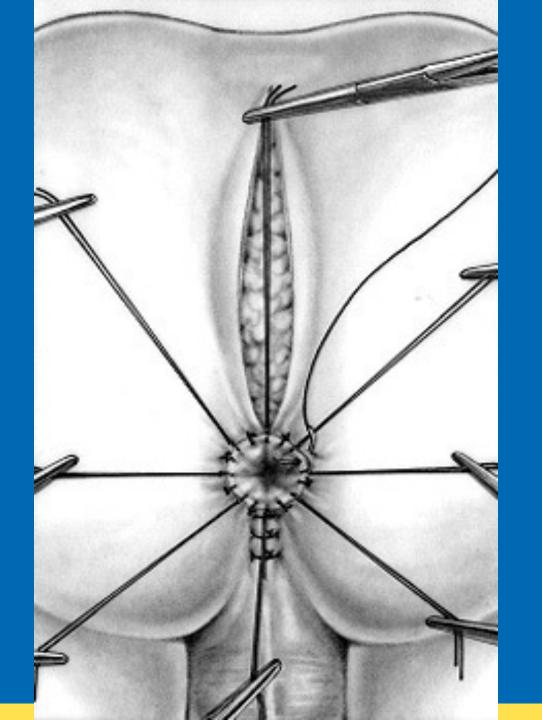




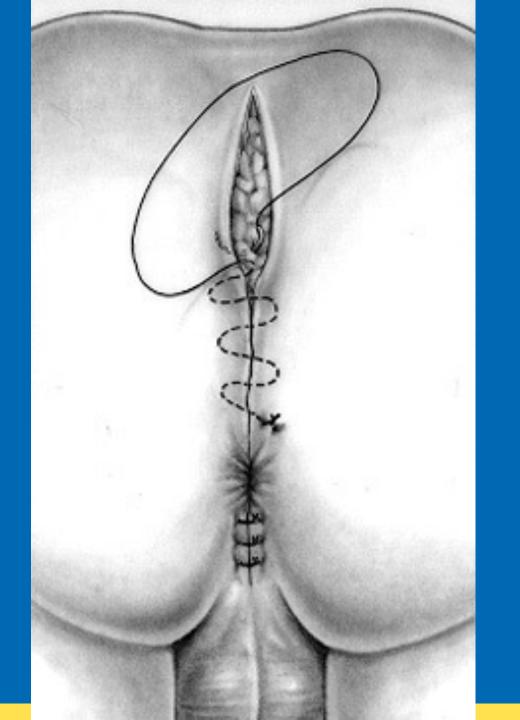




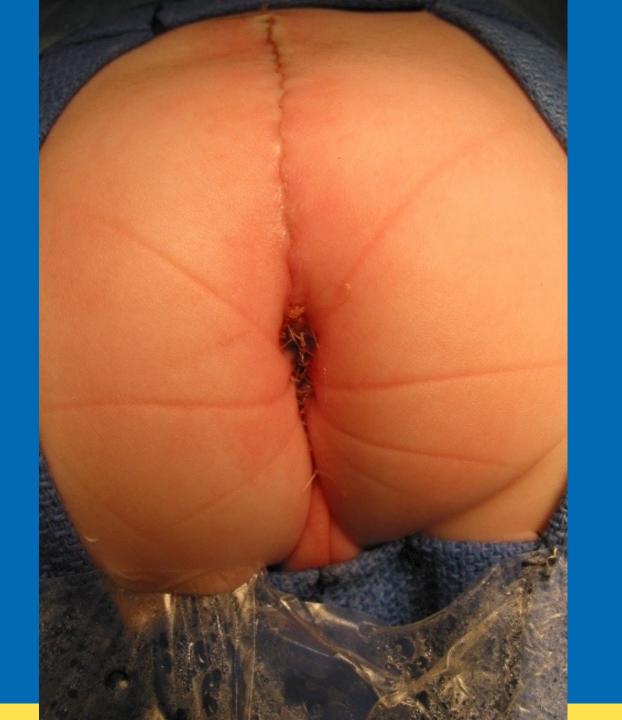




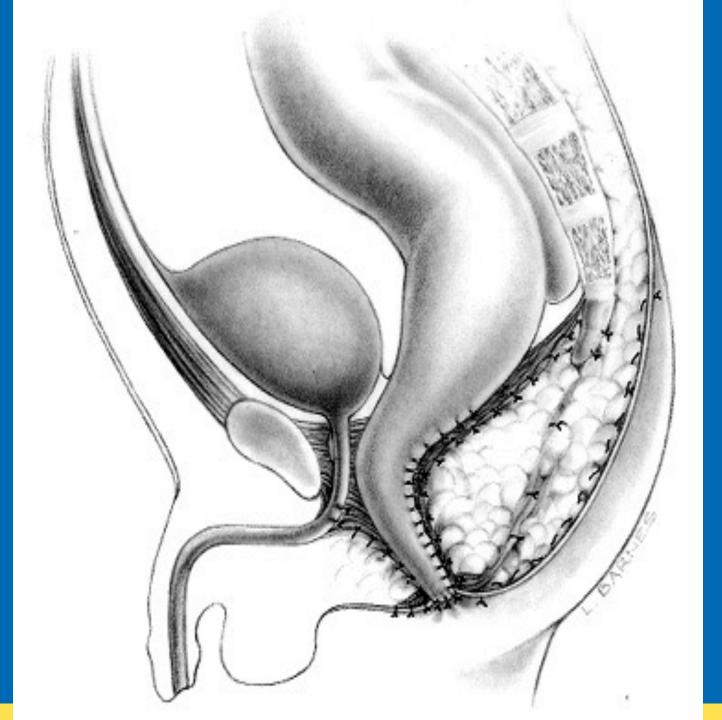






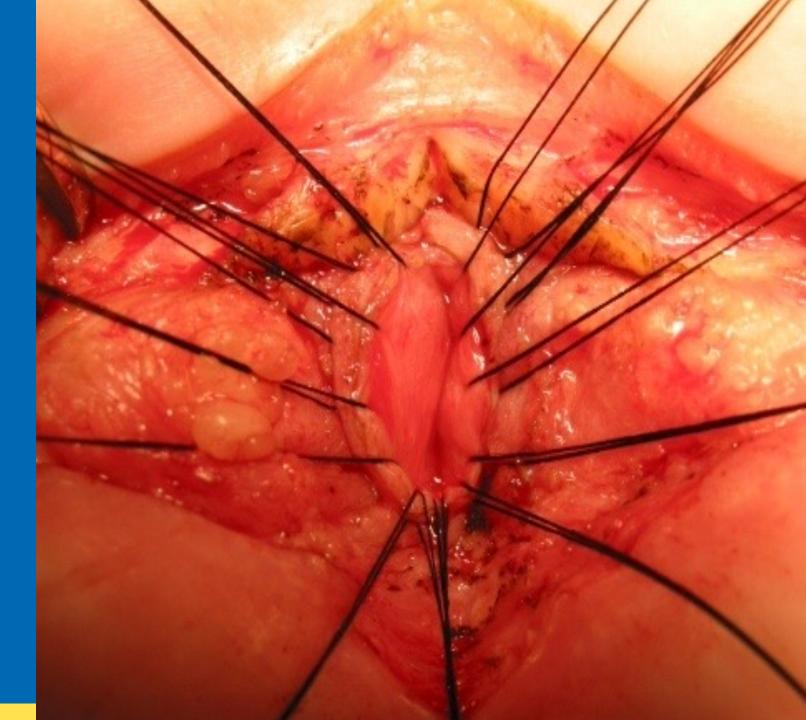








No fistula









Bladderneck Fistula

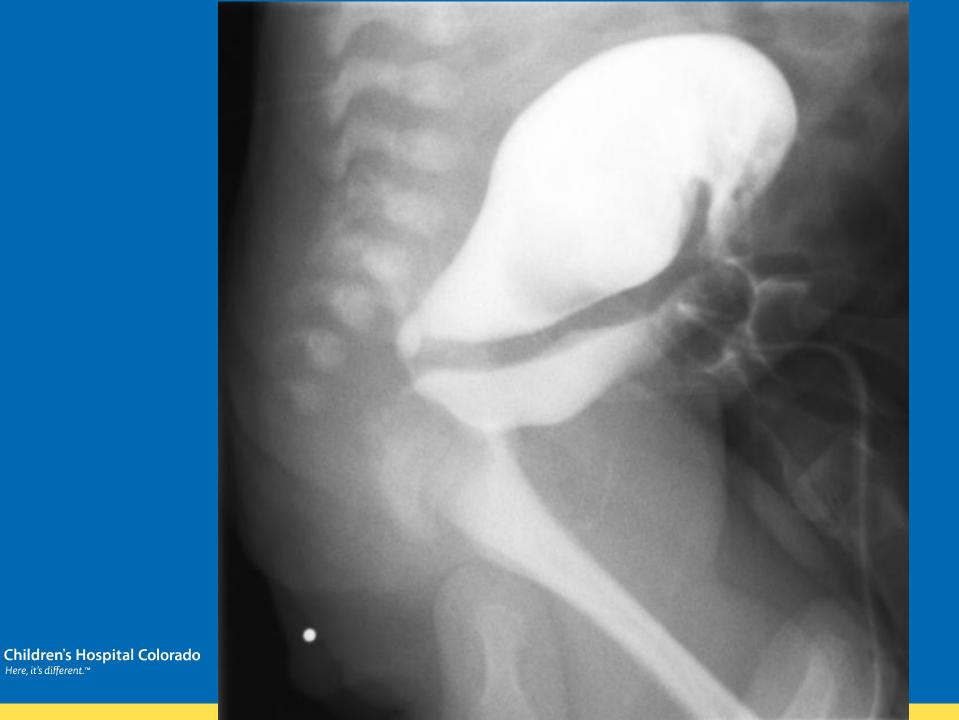
PSARP



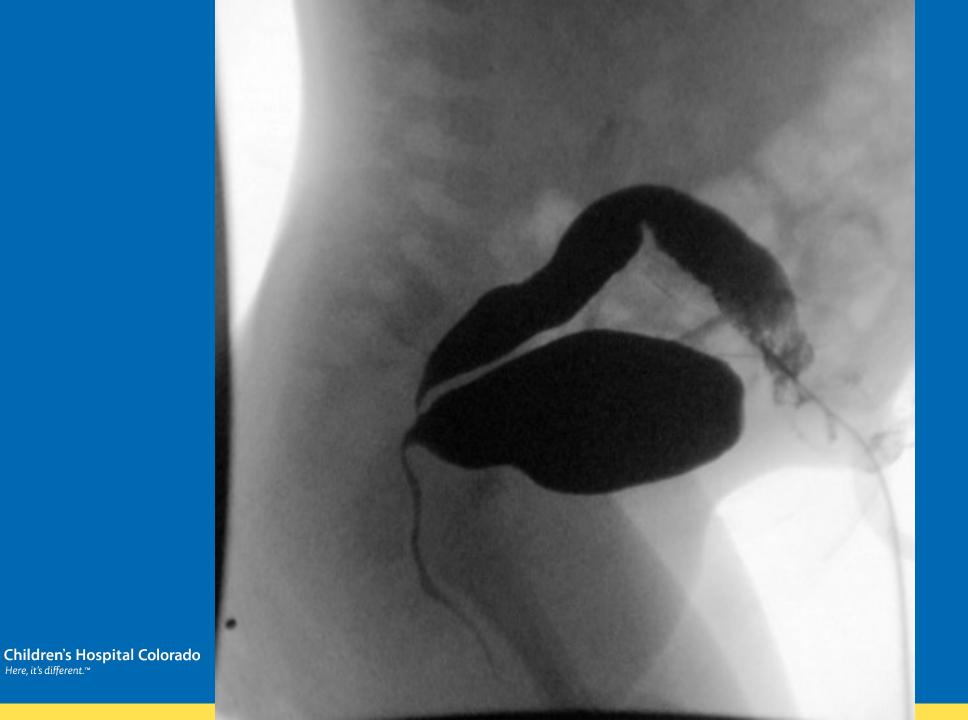
Laparotomy/Laparoscopy



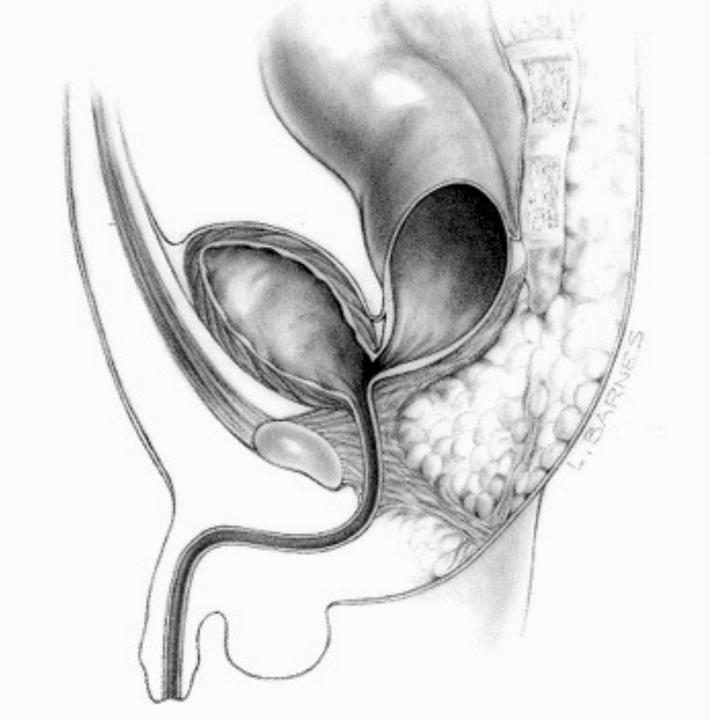










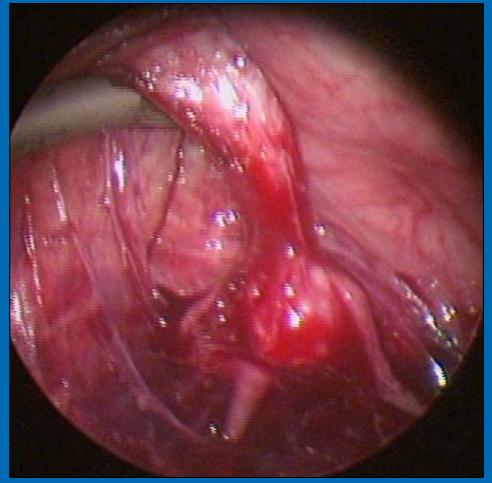


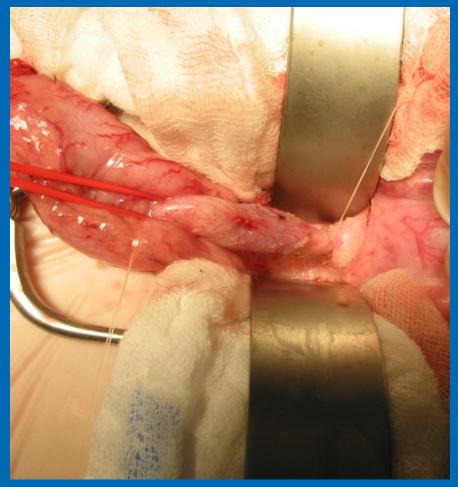






Ligation of a bladderneck fistula

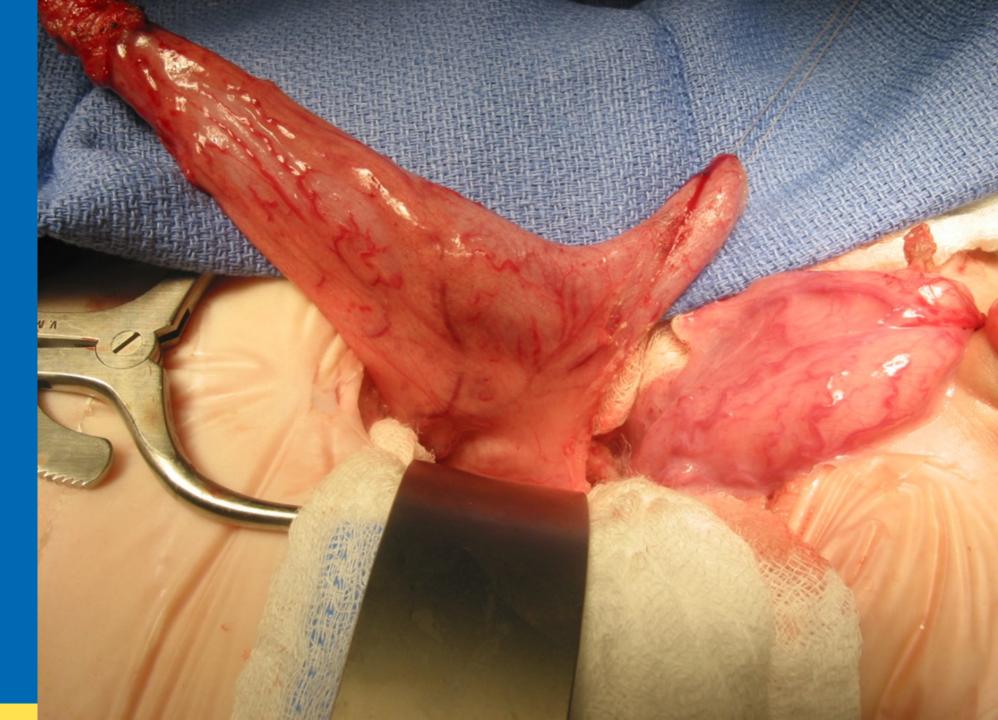




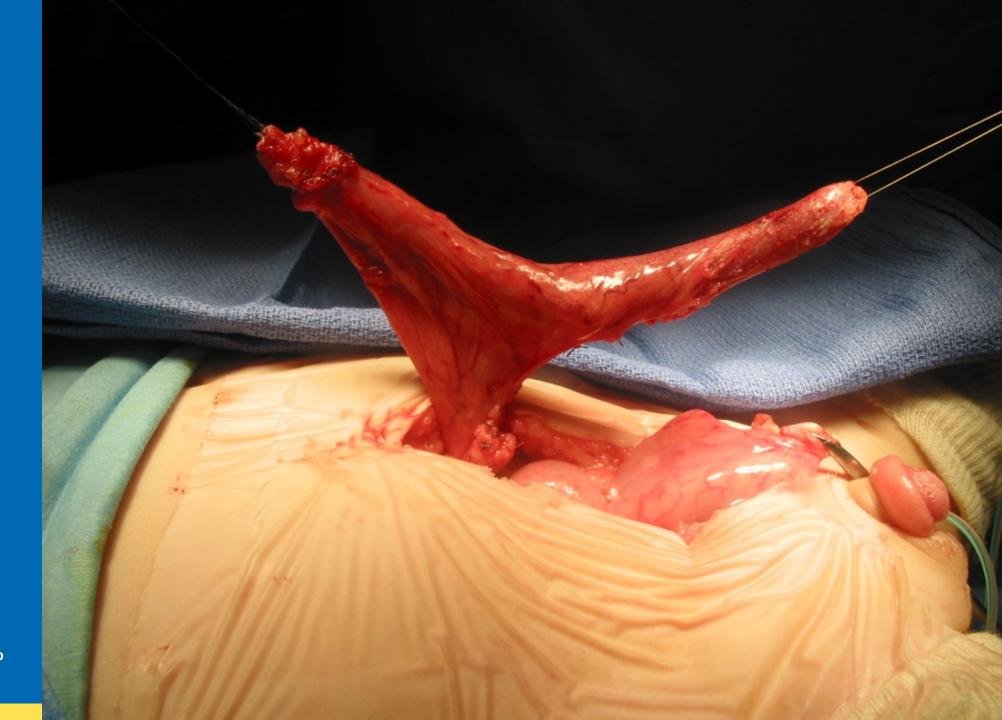


Laparoscopic view

Laparotomy view





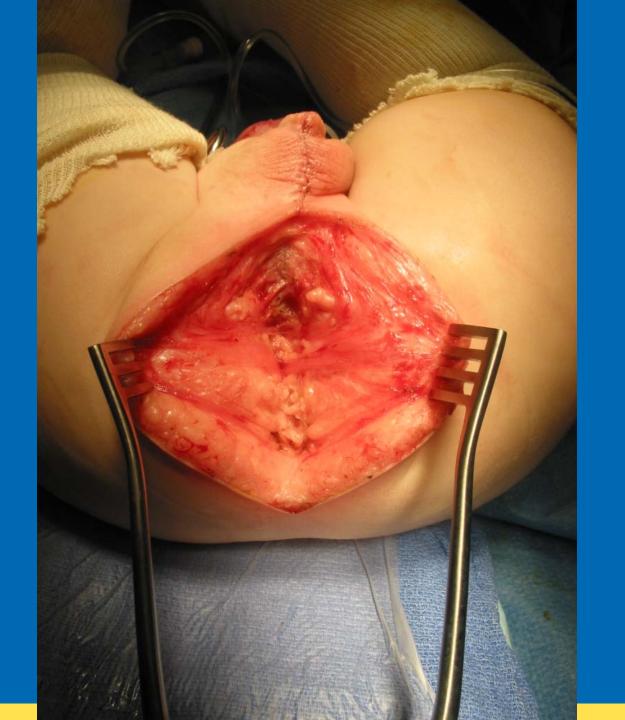


























Laparoscopy in Anorectal Malformations





Posterior Urethral Diverticulum After Laparoscopic Repair of an Anorectal Malformation









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