CHILD SURGERY II.

MUDr. Jan Škvařil, Ph.D.

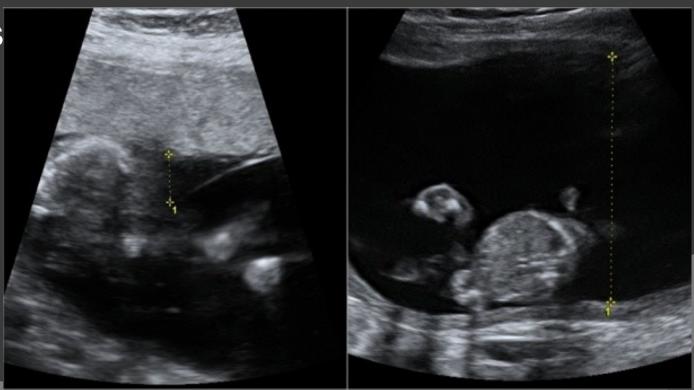
Department of Child Surgery, Orthopedics and Traumatology, TH Brno



eutrophic newborn, PNV 51cm/3450g

prenatally: polyhydramnios

pos





Put gastric probe

IMPOSSIBLE, collides with resistance





Thorax and abdomen X-ray







X-ray examination with contrast (what ?)





Associated developmental disorders

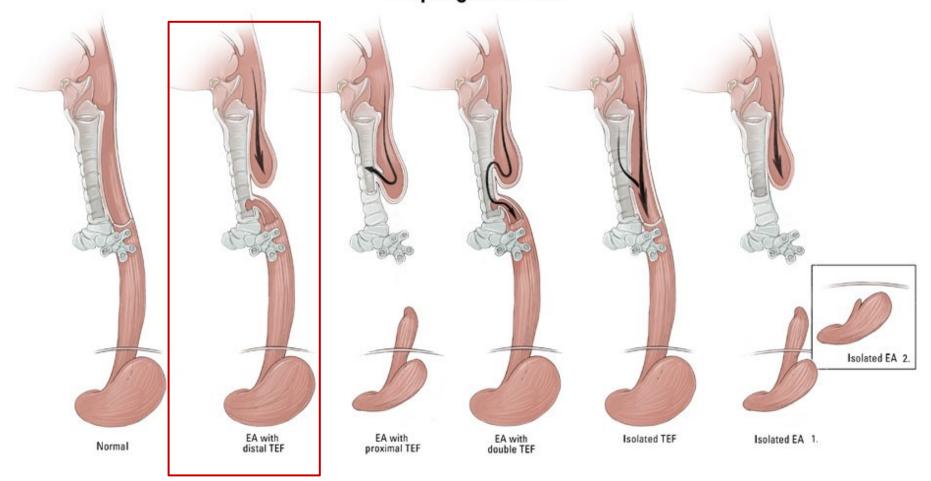
 Oesophagus atresia is usually associated with another disorders up to 50% - VACTERL syndrome.

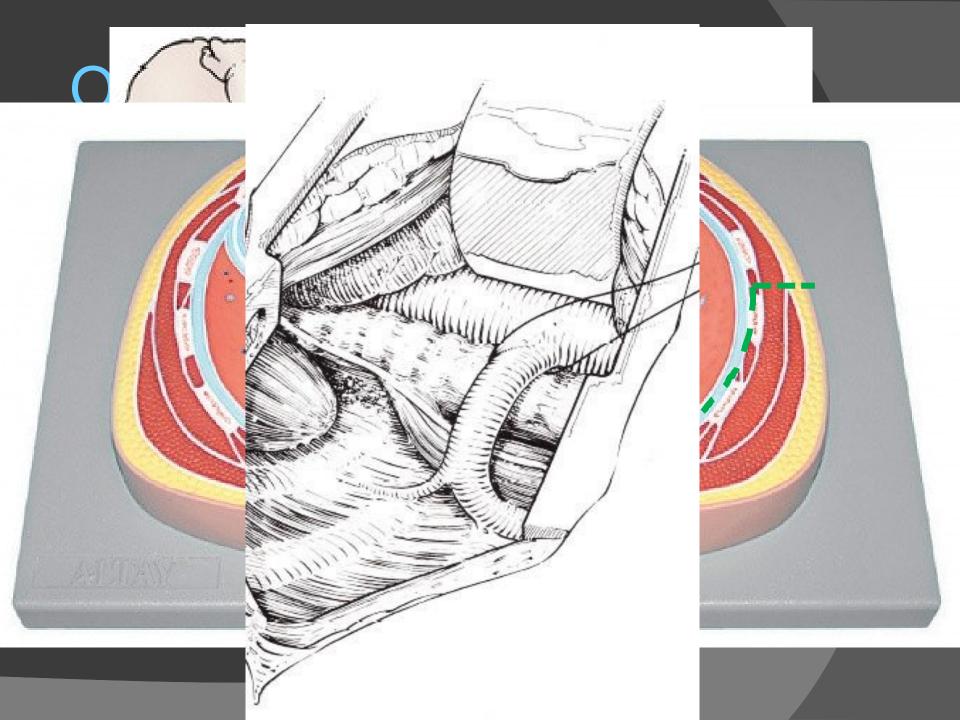
VACTERL syndrome

- ∨ vertebral
- A anorectal (10%)
- C cardiovascular (25%)
- T tracheal
- E esophageal
- R renal (10%)
- L limb

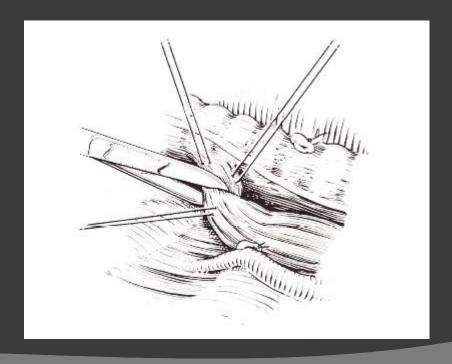
Classification

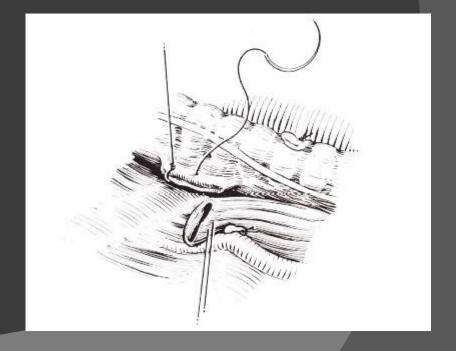
Esophageal atresia





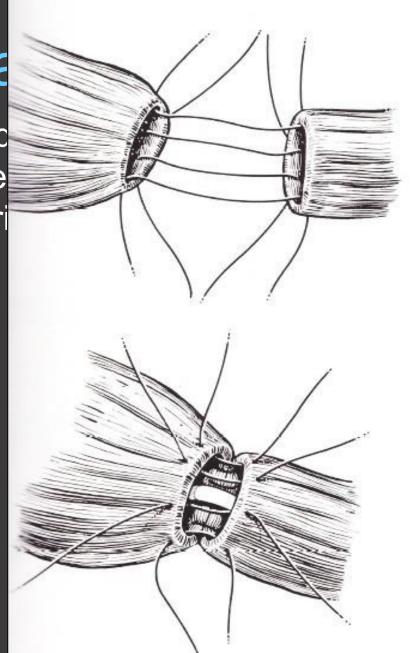
 Tracheoesophageal fistula interruption and tracheal defects closure





Opera

Upper and finishing e nasogastri



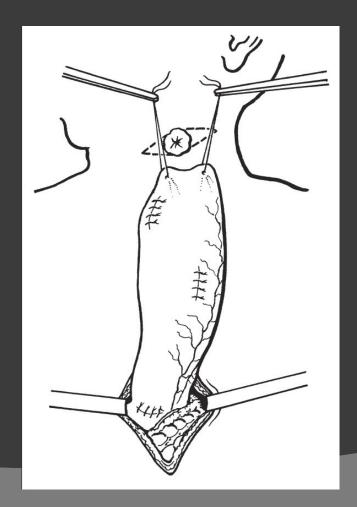
release, inserted

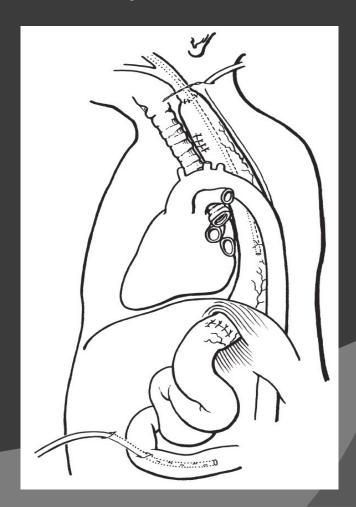
Solution methods Long-gap (gap > 3 cm): Suggestions ?

- Anastomosis under tension (dehiscence risk)
- Postponed anastomosis
 (6-12 weeks of upper stump bougie elongation)
- Esophagostomy, gastrostomy and postponed substitution
- What the substitution options are ?

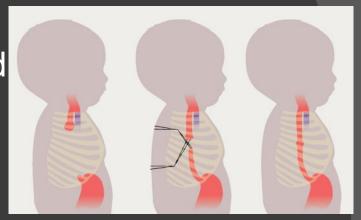
(colon interposition, tubularized part of stomach, small intestine replacement, the whole stomach replacement + pyloroplasty (according to Spitze) – most common at children, in the Czech Republic sinde 1992, advantages – easy procedure, good vascular supply, low fistula and stricture presence)

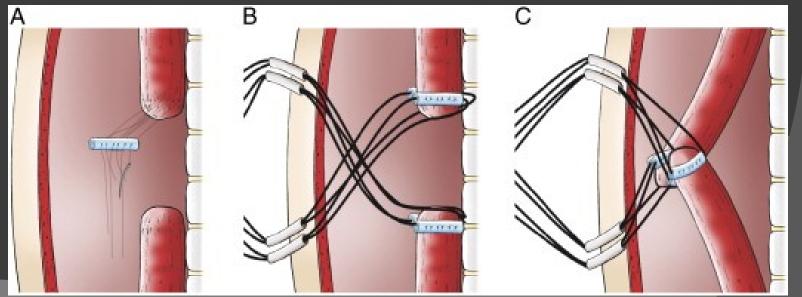
The hole stomach discarded replacement





- Fokker system:
- stump prolongation method secondary anastomosis







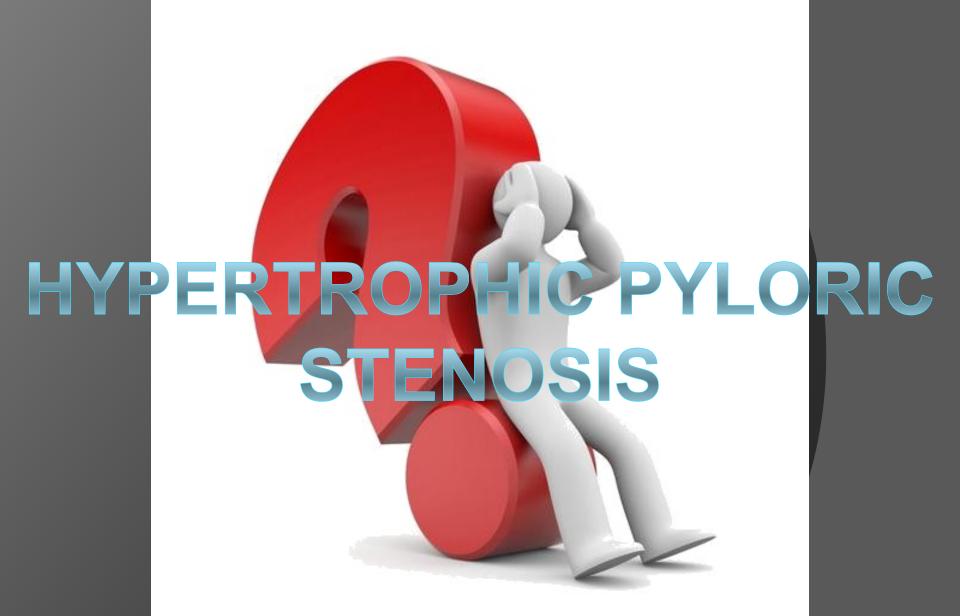
- eutrophic newborn, more often a boy, PNV 51cm/3450g
- Beginning of 3rd-6th week of life, not beneficial, bow vomiting during each dose

NEXT PROCEDURE?



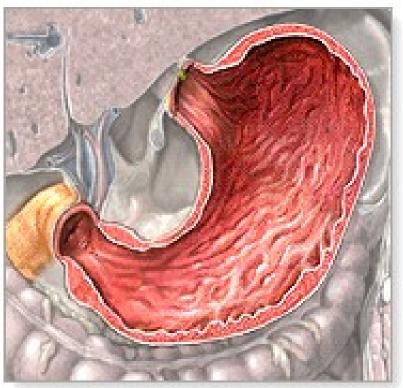
Abdomen ultrasound





Hypertrophic pyloric stenosis Surgary 2







Beginning?

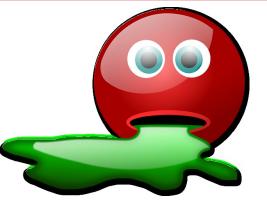
Shortly after delivery

Characteristic?

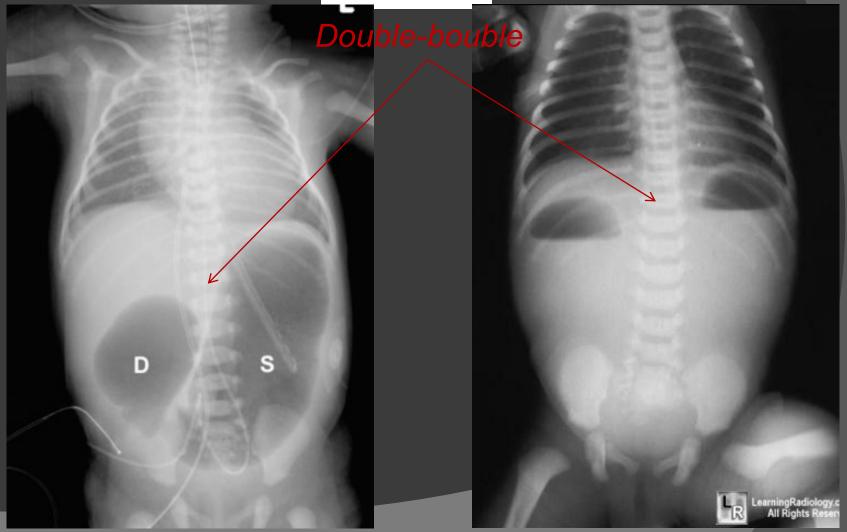
Bow vimiting

Admixture?

Gall admixture

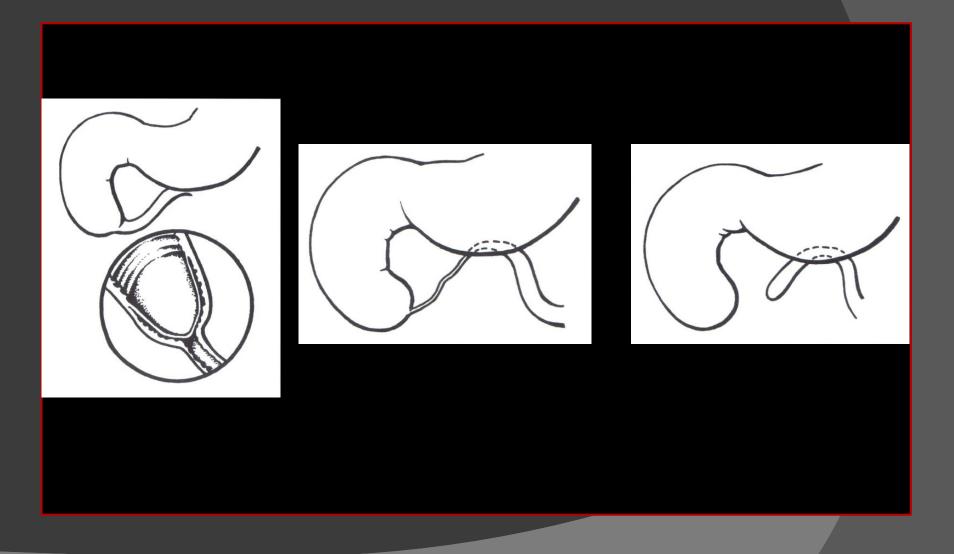






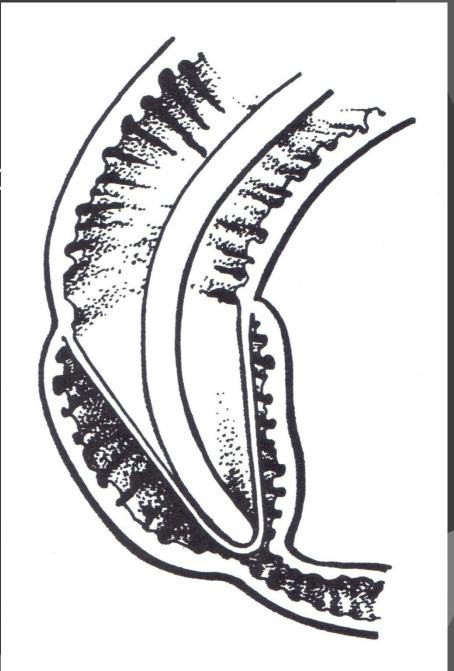


Division



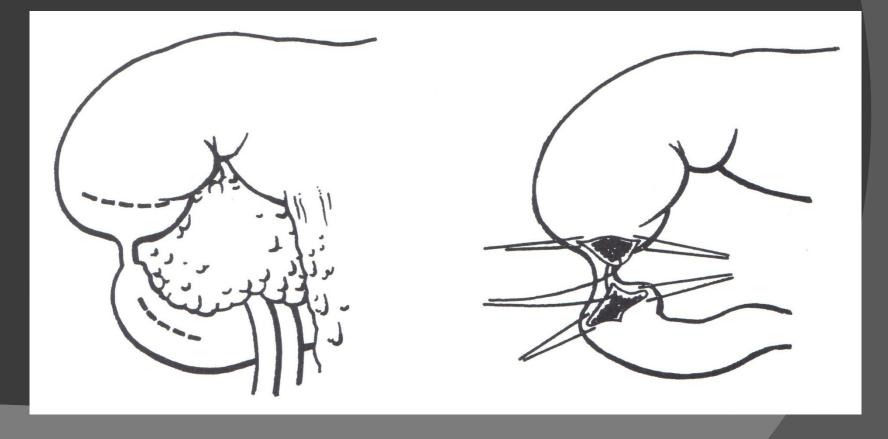
Treatment?

Membrane excisic



Treatment ?

Duodeno anastomosis suture") ("diamond





Type of icterus?

Cholestatic - obstructive

Start of symptomes?

Days – weeks after delivery

Consenquences?

Biliary cirrhosis, hepatic collapse

NEXT PROCEDURE ?



Anamnesis

delivery mechanism, asphyxia, infective diseases and metabolic defects exluding

Clinical state

days)

apathy, dyspnea, tachycardia, the time of the start or icterus persistence (14

Laboratory examination

BC, conjugated bilirubin, HT, CRP, BT + Rh

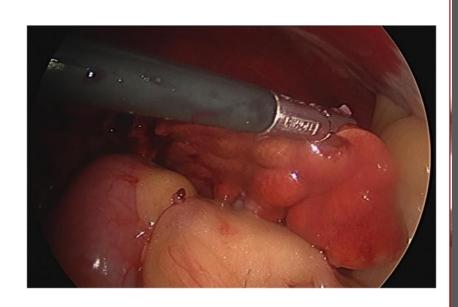
Diagnasia 1

Hepatic biopsy

puncture

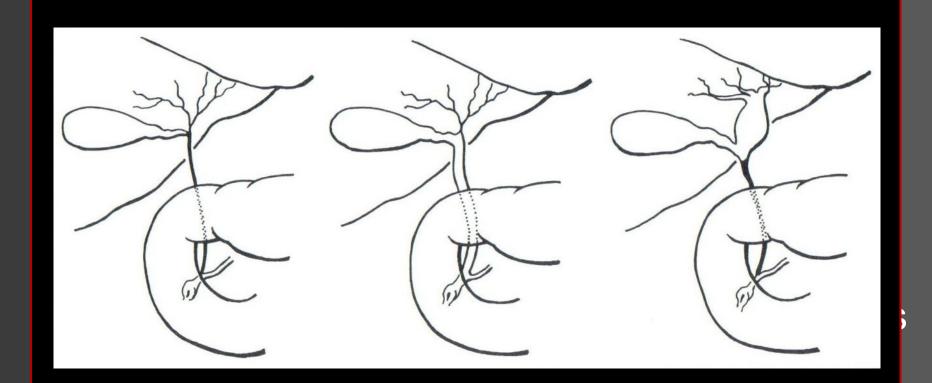
laparoscopic



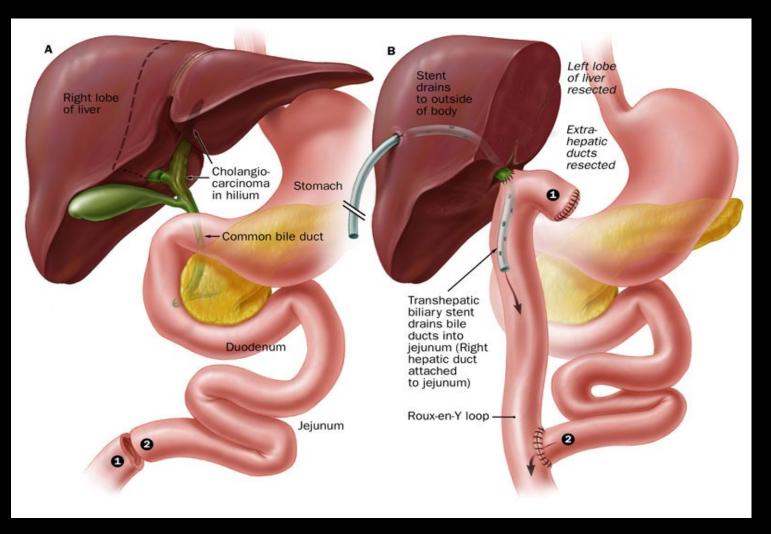




Division



Excluded jejunal loop – Y-Roux





eutrophic newborn

postnatally: at first, a physiological newborn
 growing icterus
 stomach ache
 palpable resistance in R mesogastrium

NEXT PROCEDURE ?



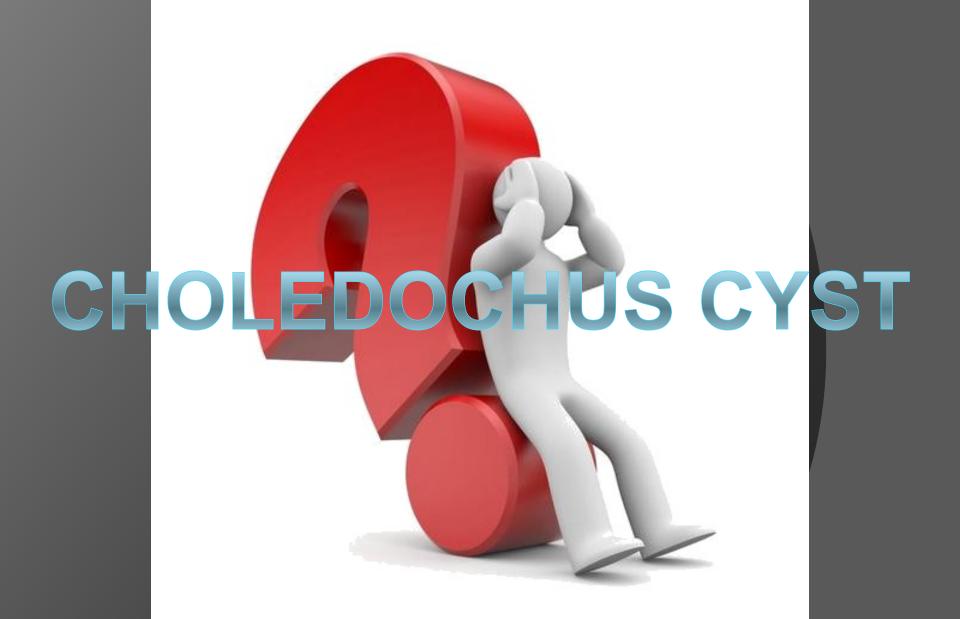




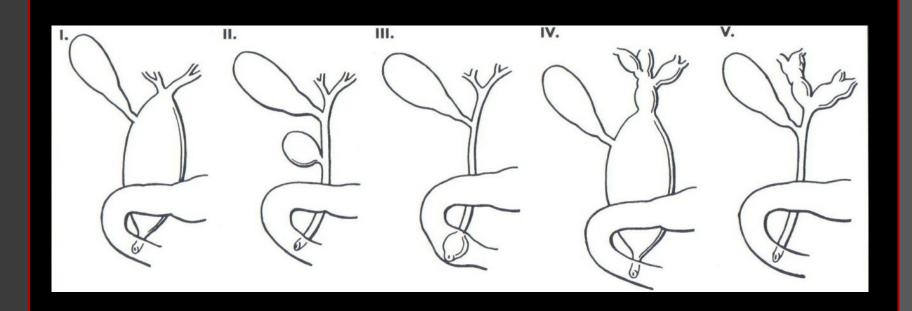


Laboratory finding ?
 Bilirubin elevation, HT, AMS, CRP

Complication ?
 rupture, pancreatitis, malignization

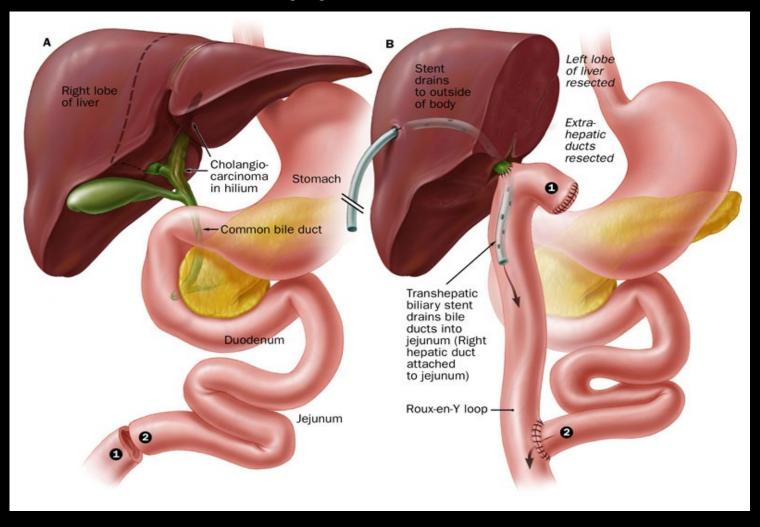


Todani classification



Traatmant

Excluded jejunal loop – Y-Roux





eutrophic newborn, PNV 51cm/3450g

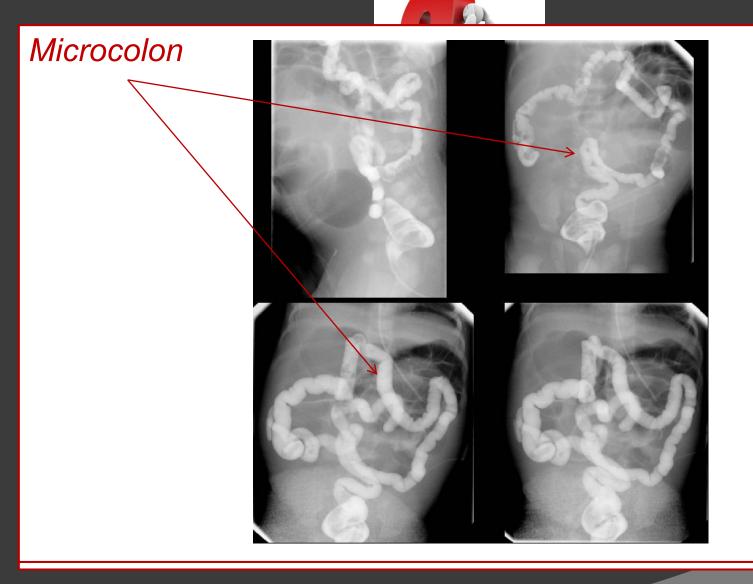
prenatally: polyhydramnios

postnatally: progressive vomiting

abdomen above niveau

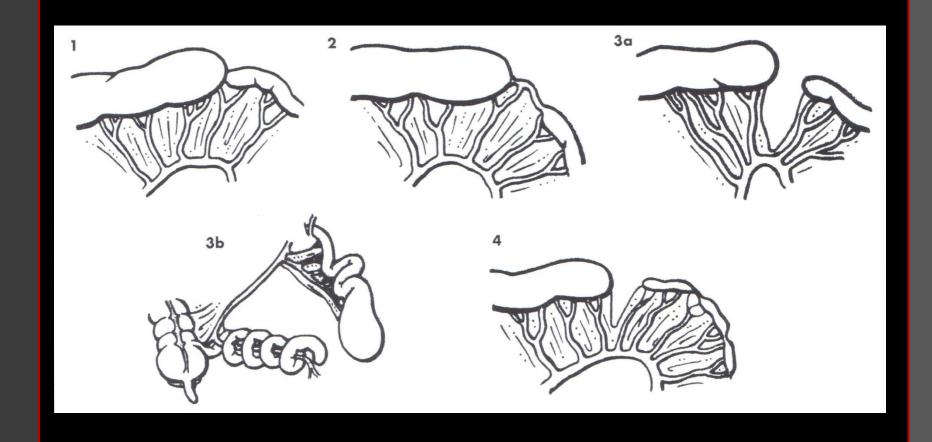
meconium does not leave

NEXT PROCEDURE?





Cmall intacting atracia





Large intestine atresia

- Rare
- Most frequently after intrauterine NEC

Treatment:

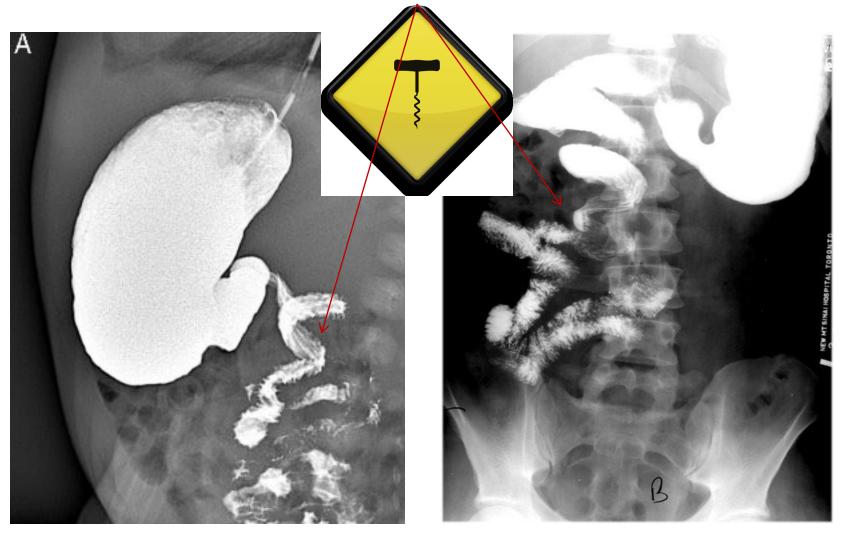
- Resectin of affected part and intestine continuity renewal by end-to-end anastomosis
- Certainty of presence of ganglionar part



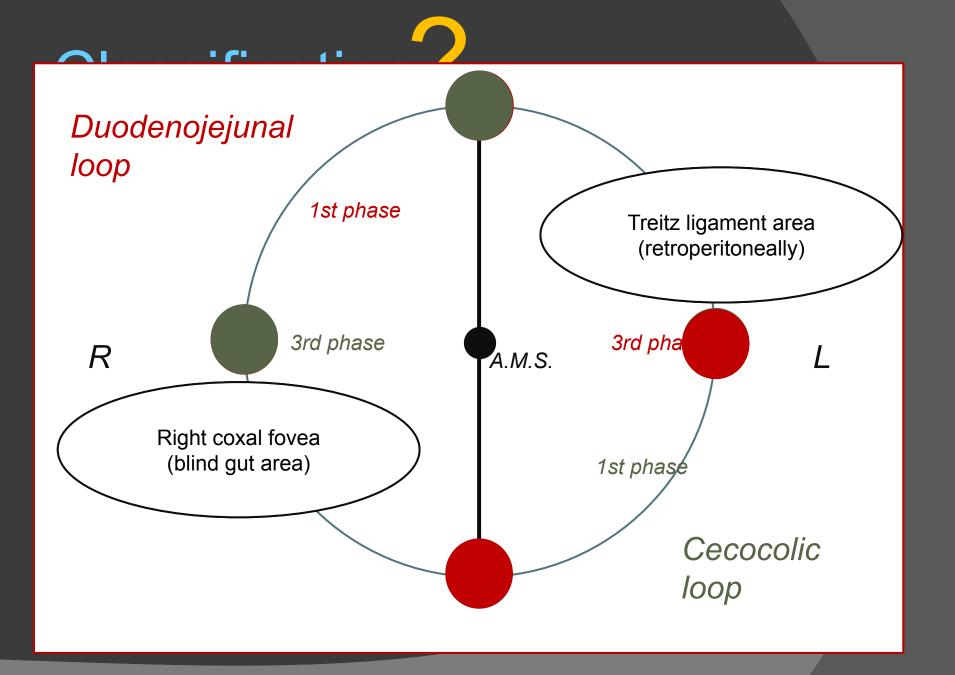
- eutrophic newborn, PNV 51cm/3450g
- postnatally: vomiting with gall admixture
 (start on 3rd-4th day after delivery)
 abdomen above niveau
 obstipation and stomach ache

ANOTHER PROCEDURE?

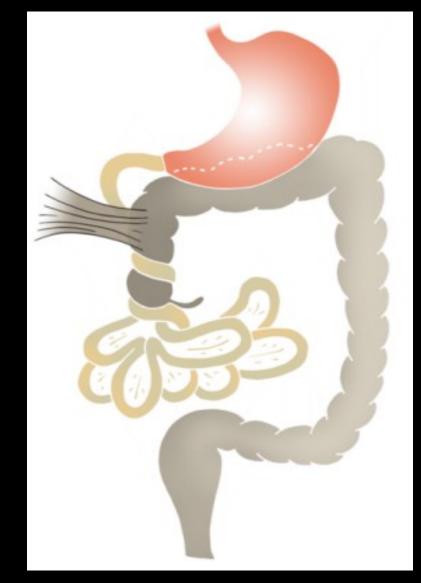


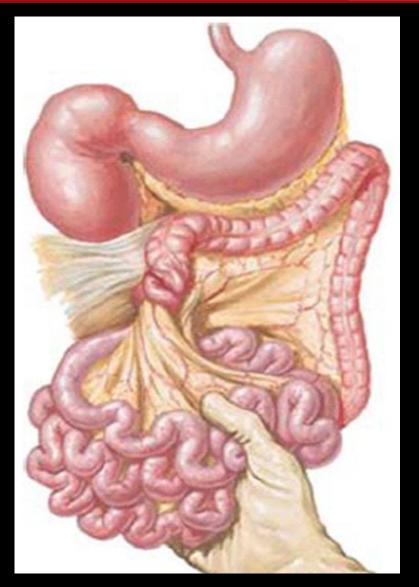






Malratation

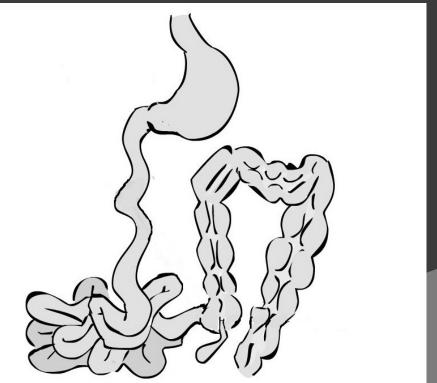




n

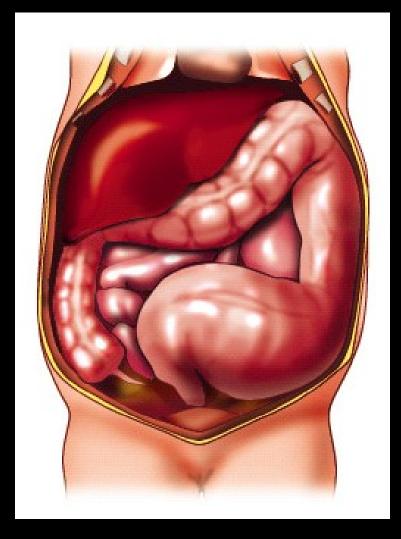


 Interruption of Ladd strands derotation and deposit to the nonrotation position









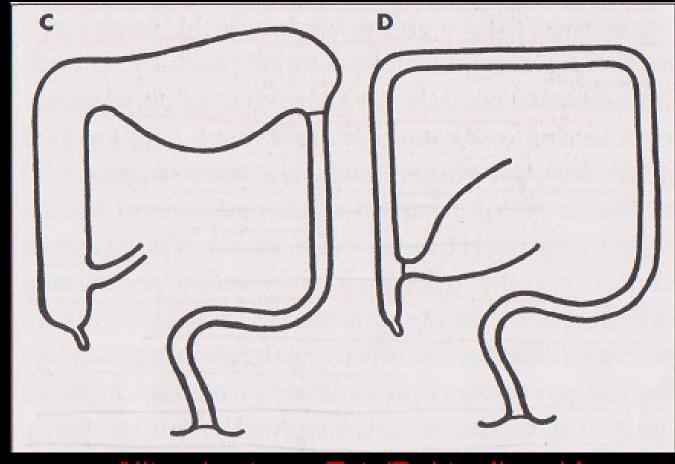
- ucterrimation of anected part



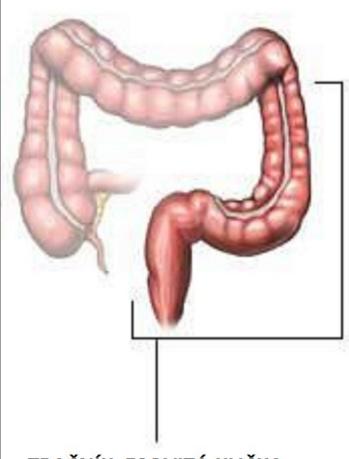
Former name megacolon congenitum

Why?

- 1691 F.Raysch 1st description
- 1887 Harald Hirschsprung pediatrist form Copenhagen (1830-1916) proved in his lecture in Berlin that it is congenital disease (megacolon congenitum)
- 1901 Tittel description of ganglial cells absence in intestine
- 1948 Swenson, Bill elucidation of pathogenesis and causal treatment

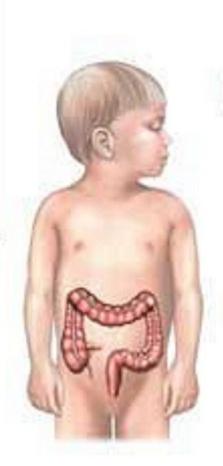


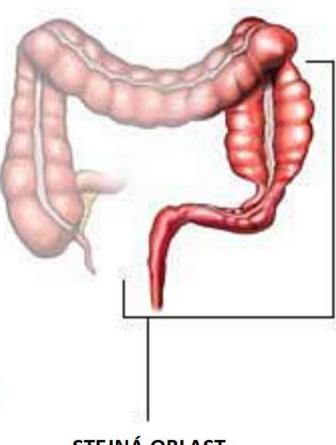
Utingshort Total Regletogligonoists



TRAČNÍK, ESOVITÁ KLIČKA
A REKTUM
U ZDRAVÉHO DÍTĚTE
COLON, S-SHAPED LOOP
AND RECTUM

AT HEALTHY CHILD



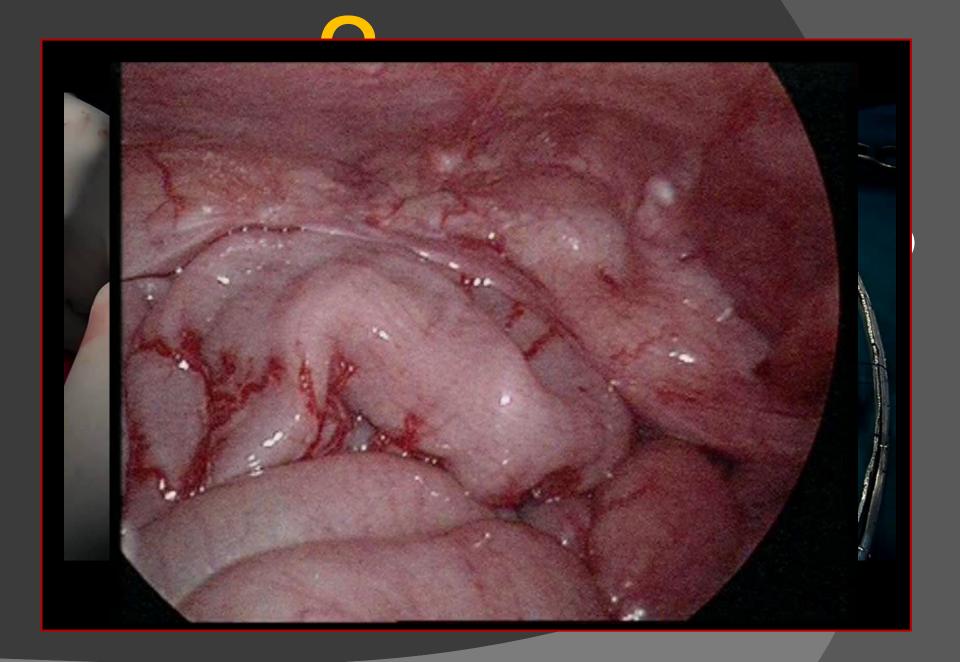


STEJNÁ OBLAST PŘI MORBUS HIRSCHSPRUNG

THE SAME AREA

 AT

MORBUS HIRSCHSPRUNG

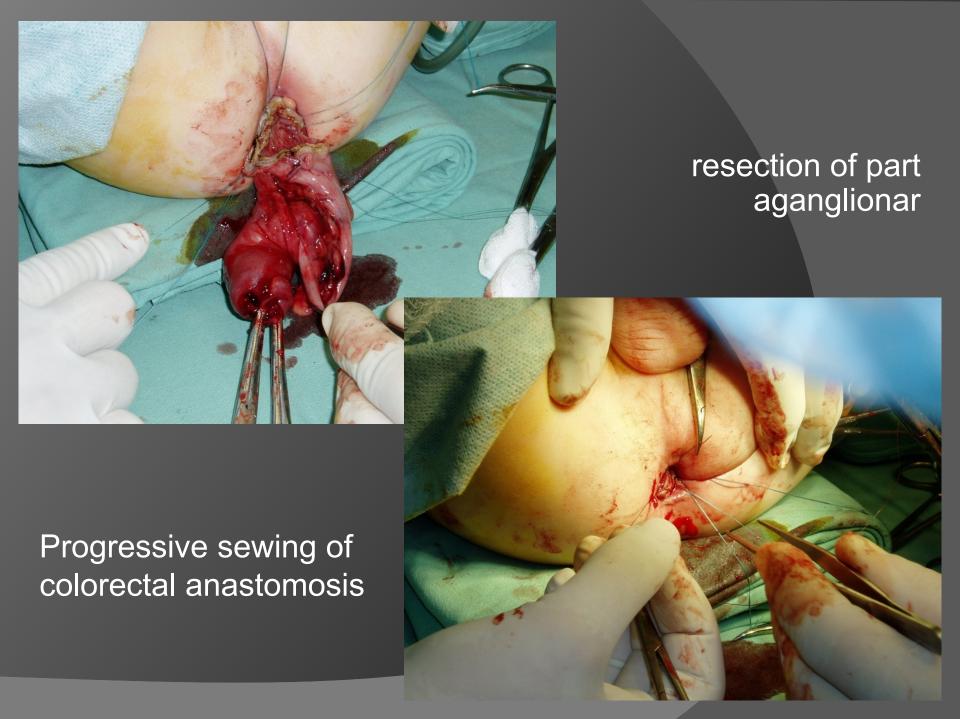




prolapsus recti

(after laparoscopic release of rektosigmoidei)

transanal pull-through of part aganglionar





The final effect after anastomosis reposition



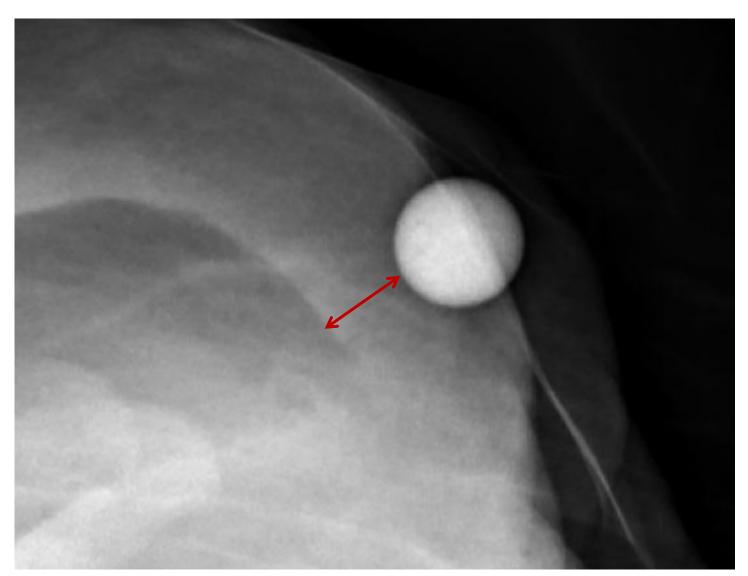
- eutrophic newborn, PNV 51cm/3450g
- postnatally: absence of meconium leaving no created rectum





- eutrophic newborn, PNV 51cm/3450g
- postnatally: absence of meconium leaving no created rectum

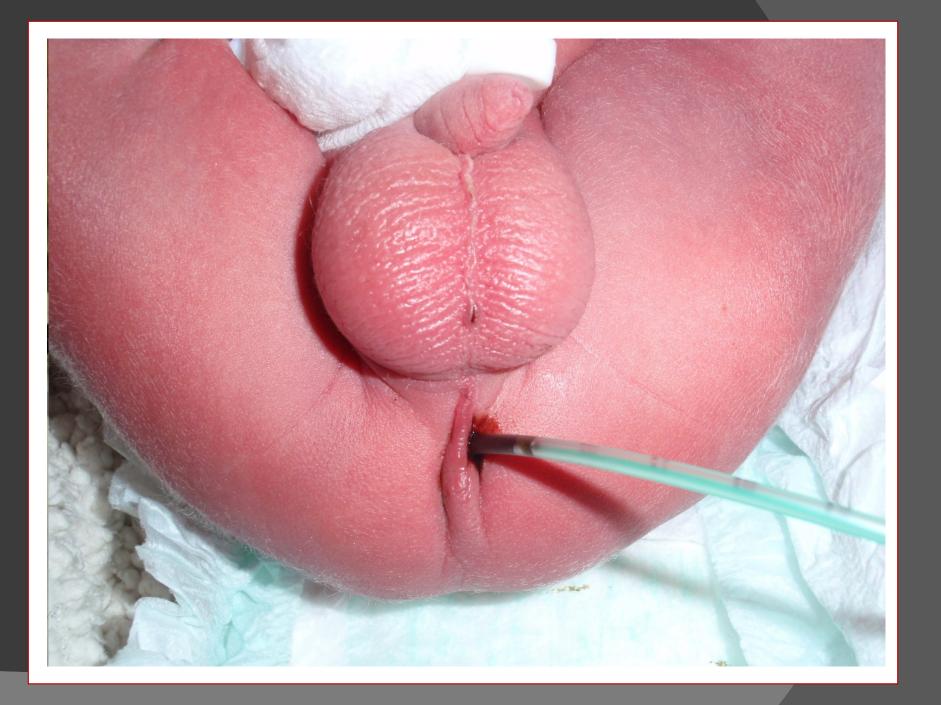
NEXT PROCEDURE?



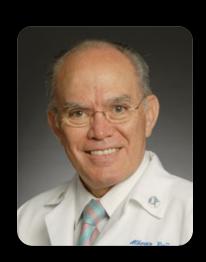
opiniotoi ana annatoa manomiationo

de

of.



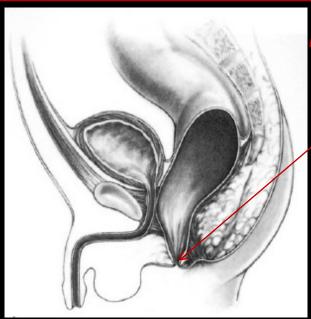
Pena Classification



Alberto Peña, MD

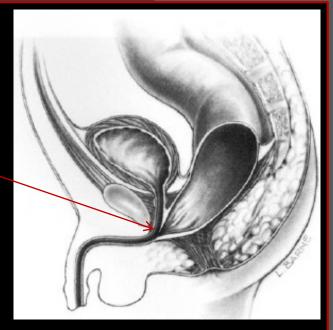
Founding Director, Peña Colorectal Center

Professor, UC Department of Surgery, Cincinnati, USA



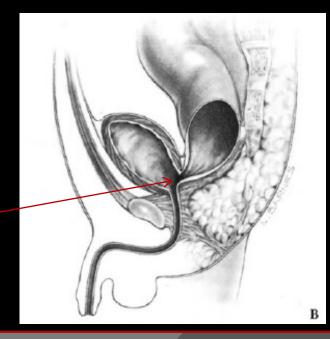
Perineal fistula

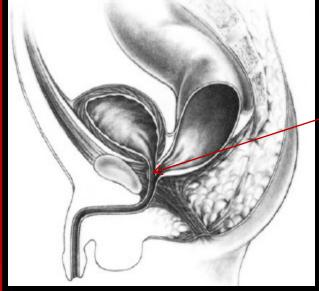
Urethral fistula



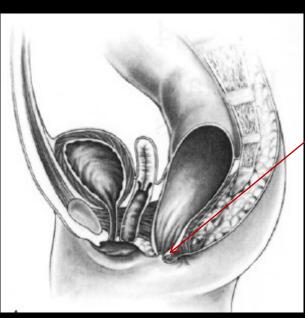






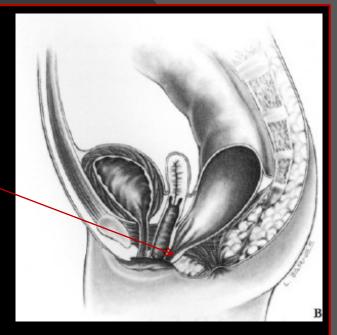


Vesical fistula



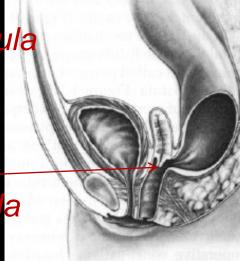
Perineal fistula

Vestibular fistula



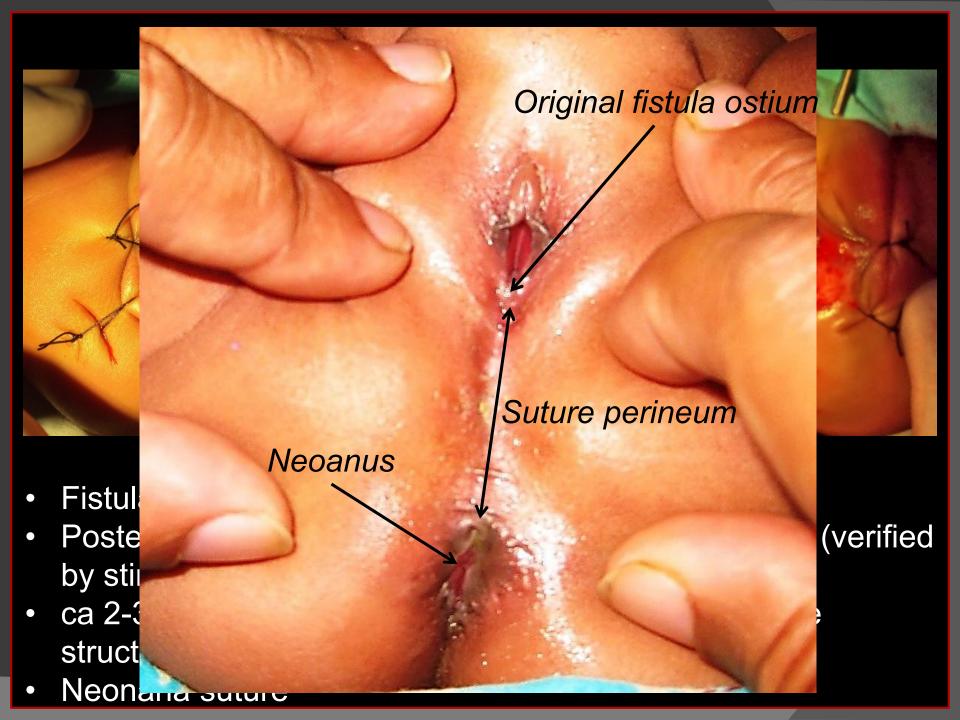








High rectovaginal fistula





THANK YOU FOR YOUR ATTENTION