Primary pull-trough How, When and Where



INTERNATIONAL CENTER FOR COLORECTAL AND UROGENITAL CARE

Children's Hospital Colorado





Resection of aganglionic segment Pull-through a ganglionated segment Anastomosis proximal to dentate line



Staged pull-through



Colostomy and biopsies Operation #1

Proctocolectomy and Pull-through Operation #2

Colostomy Closure | Operation #3

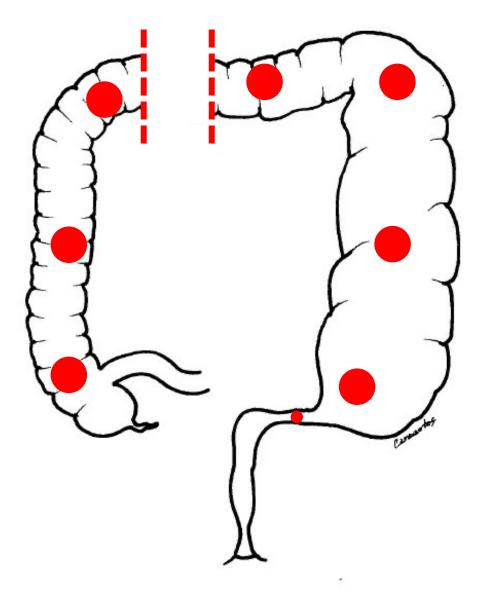


Primary pull-through (No colostomy or ileostomy)

Colectomy Pull-through Anastomosis

ONE OPERATION

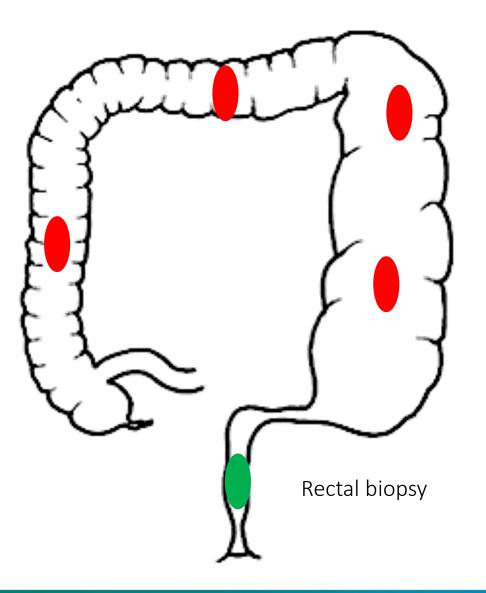












A rectal biopsy is mandatory after the biopsies of the colon





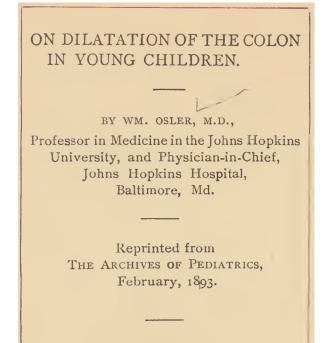


Is there any difference in the **functional outcome** performing a primary vs. staged pull-through?



"...introducing the tube far up and **irrigating** the bowel thoroughly, and with this a large quantity of fluid came away..."





New York : M. J. Rooney, Printer and Publisher, 114-120 W. 30th St.















ENTER FOR AL AND L CARE







Experience with this procedure Unquestionable diagnosis of Hirschsprung Reliable Pathology team for frozen sections Skilled Radiology team

Appropriate hospital organization and resources nurses, surgeons, physicians, iv care, tpn...

"The surgeon and its circumstances."



"Parents need to be expert doing rectal irrigations, BEFORE the pull-through."

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Pre-operative

Adequate preparation of the patient

Intra-operative

Trusted study of the FROZEN biopsy

Post-operative

Care protocol



Pre-operative evaluation for a primary pull-through

4

1.-Is a patient with Hirschsprung disease?

-Rectal biopsy

2.-What is the length of the aganglionic segment?

- -Pre-operative contrast enema
- -Intra-operative frozen biopsy
- -Transanal only or also needs an abdominal approach

3.-Is the proximal colon mild, moderate, or severe dilated and hypertrophic?

- -Contrasted radiological study
- -Intra-operative evaluation

Pre-operative evaluation for a primary pull-through

4.-Is it a good candidate for a primary pull-through?

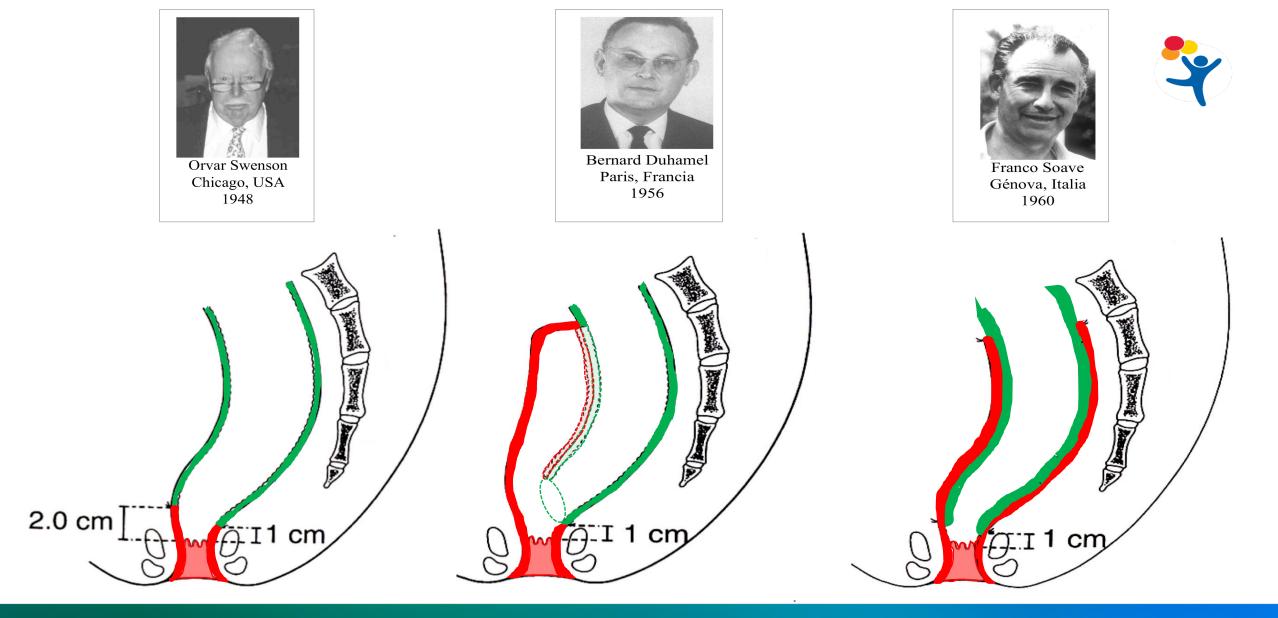
- -it is well controlled with irrigations
- (keep the colon without dilation, the patient is eating well and gaining weight)
- -experience of the surgeon
- -pathologist experience

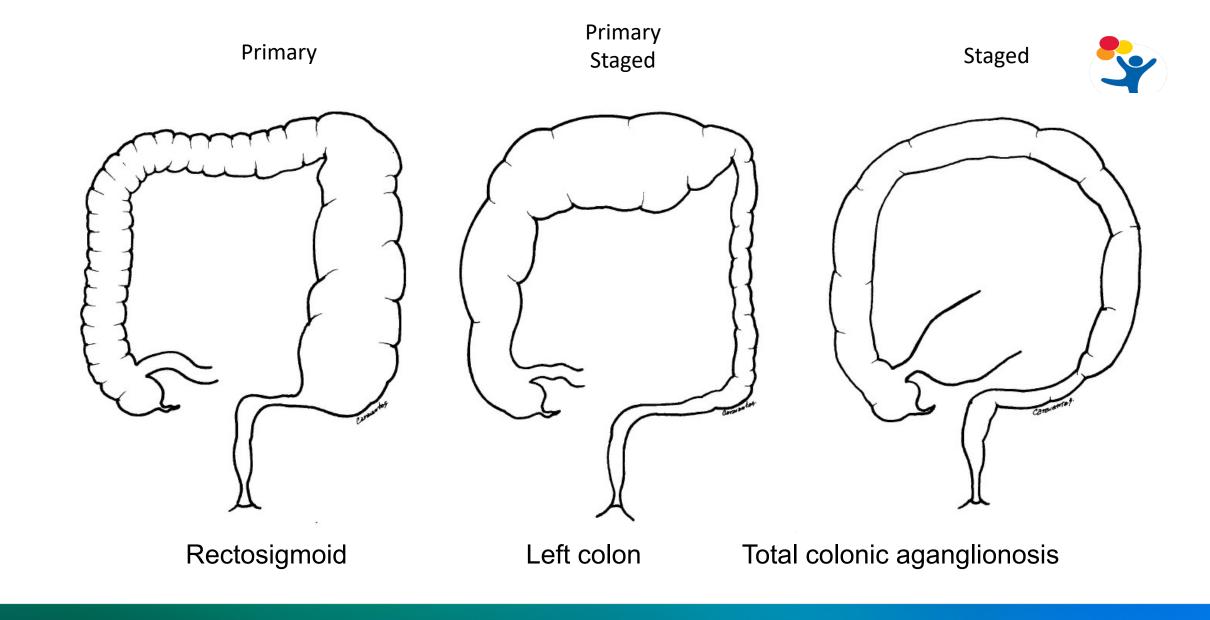
5.-What surgical options are there for a primary pull-through?

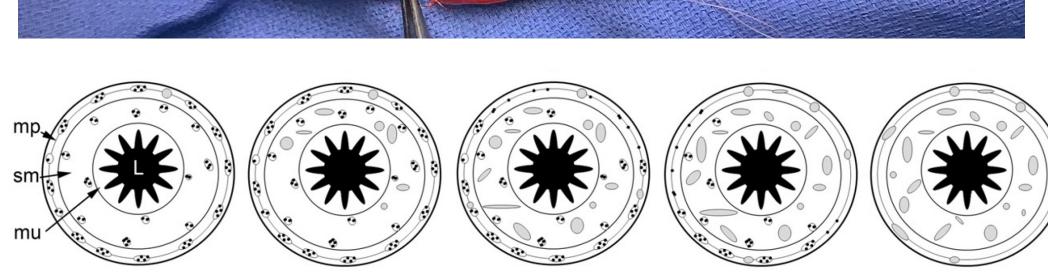
- -Transanal
- -Transanal + umbilical approach
- -Transanal + laparoscopy
- -Transanal + laparotomy
- -Open, abdominoperineal approach





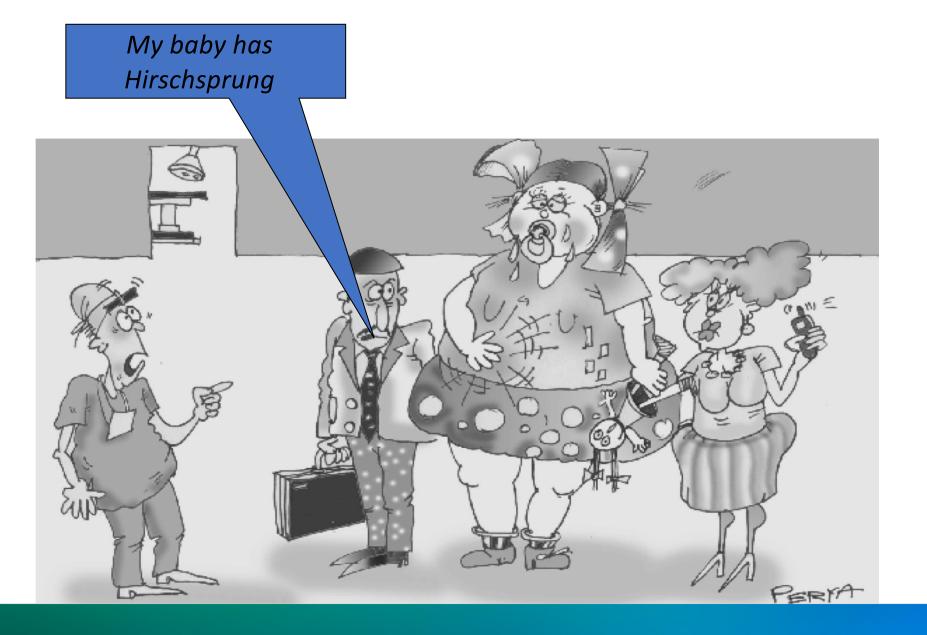


















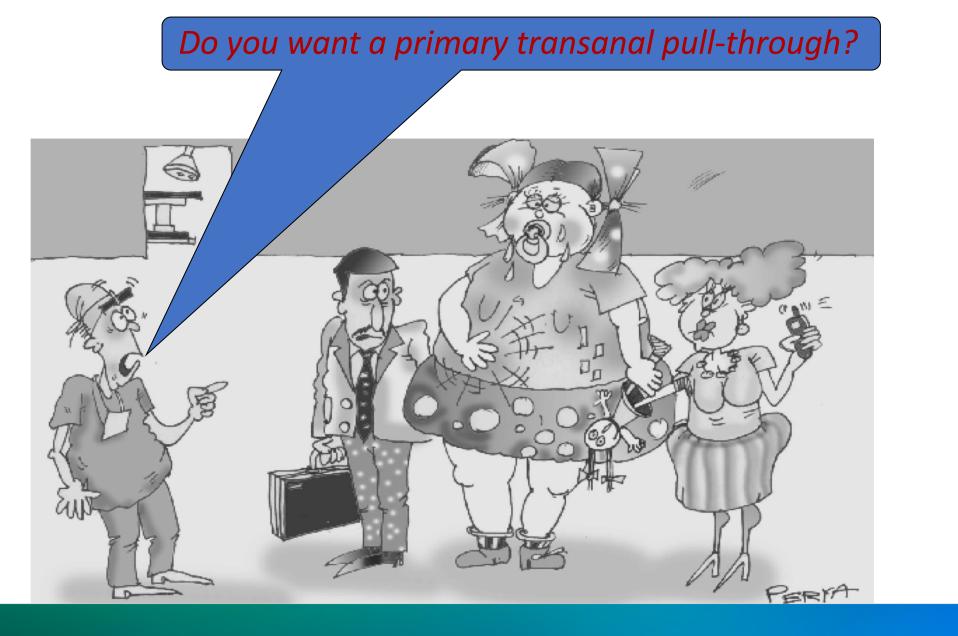


Late diagnosis and proximal "true megacolon"



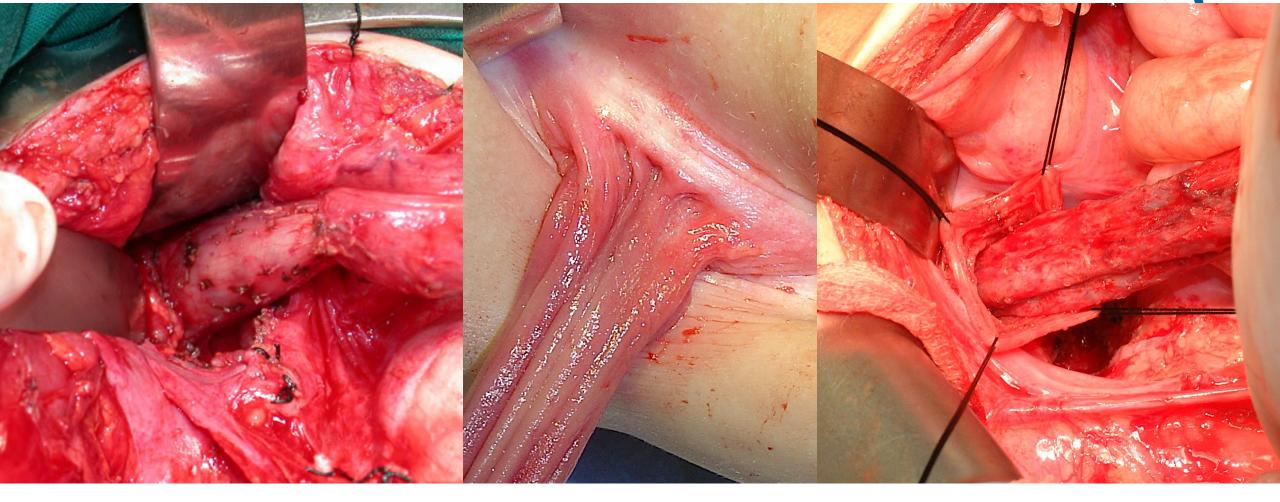


Late diagnosis and proximal "true megacolon"



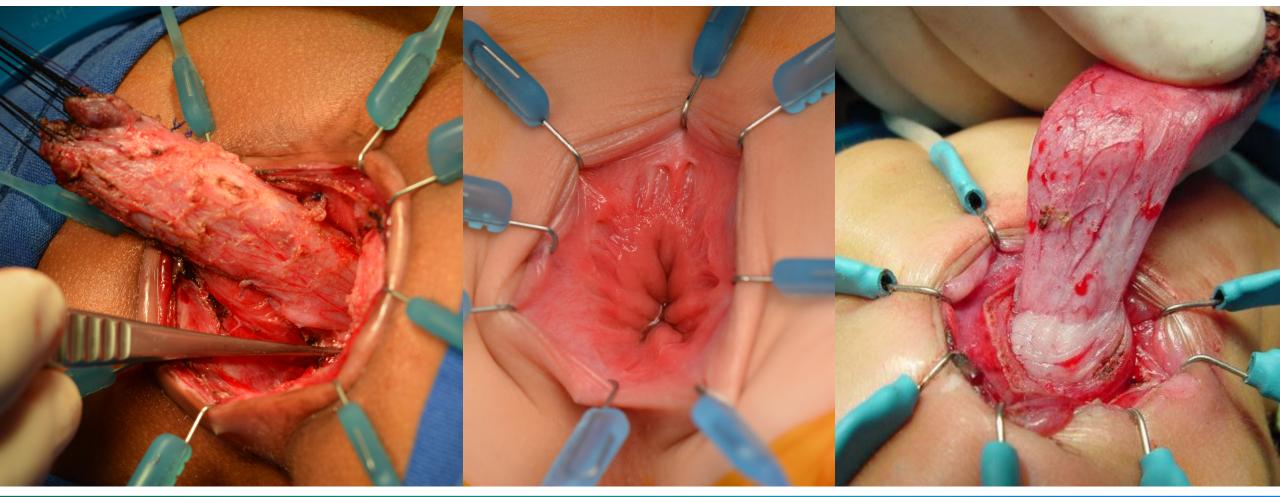
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1990-2021



What pros or cons exist between primary vs. staged pull-through?

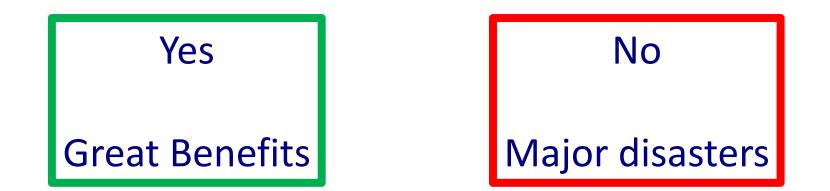
Number of operations Possibility of complications related to enterostomy Possibility of intestinal adhesions Primary is youngest patients > risk of damage of anal canal



"Primary pull-through."

41 years ago!

Are you ready to perform "hole in one"?



How to do a PT? Open, Lap-assisted, Transanal, combination



When to do a PT? Patient has an adequate clinical condition

Where to do a PT? Medical team has experience and the hospital offers appropriate infrastructure

Thank you luis.delatorre@childrenscolorado



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1st operation Laparotomy + biopsies of the colon to determine the level of aganglionosis + transverse colostomy

2nd operation

Laparotomy, proctocolectomy, pull-through with and endend colorectal anastomosis

3rd operation Laparotomy + colostomy closure

Primary pull-through



1. Resection of aganglionic segment

2. Pull-through the ganglionated bowel

3. Anastomosis colorectal