



Constipation → When to consider Organic Disease?

Consensus in Pediatrics 2015

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Objectives

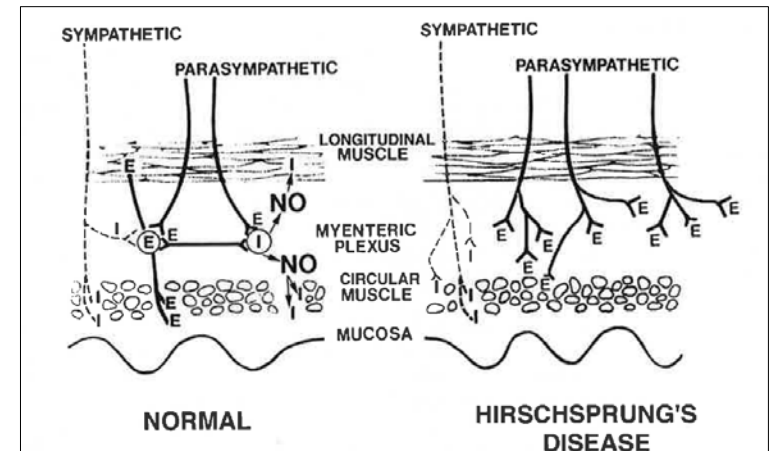
- Constipation
- Differential Diagnosis
- When/Who to Investigate
- Work up
- Surgery for Hirshsprungs
- Long Term Follow-up
- Primary Pediatrician

Differential Diagnosis

- Hirschsprung's Disease

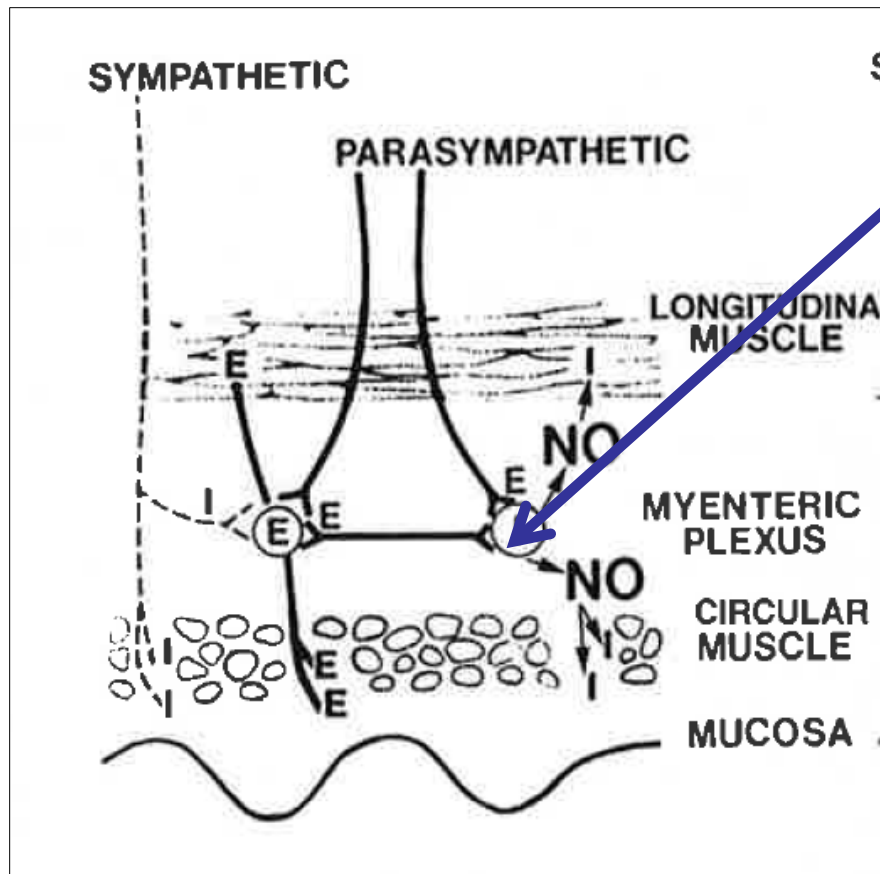


Absent Enteric Neuronal Ganglia



= Absent peristalsis

Neuronal Intestinal Dysplasia



Abnormal number and neurotransmitter subtype of enteric neurons

Ineffective Peristalsis

Often associated with CNS neuronal or behavioral abnormalities



Strictures, Metabolic Causes

- Anatomic/Congenital Strictures
- Hypothyroidism
- Meconium Ileus/Cystic Fibrosis

Evaluation of Constipation: Who Needs Biopsy?

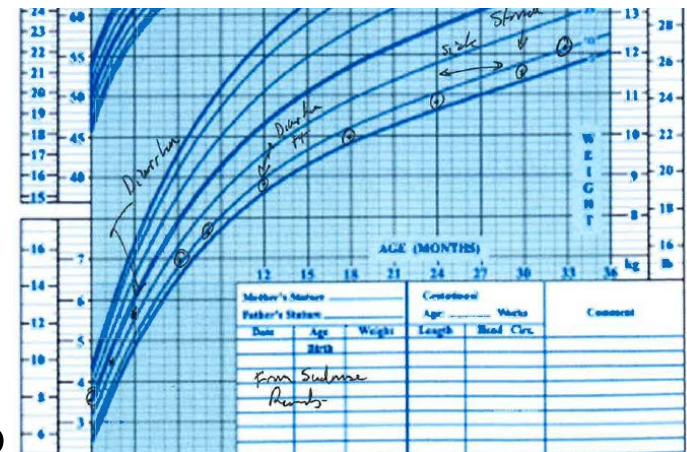


All Constipation patients?



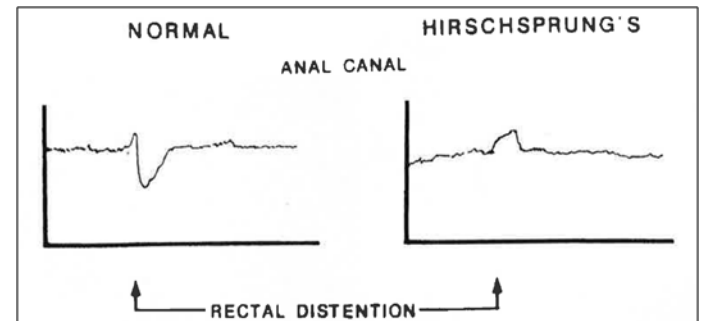
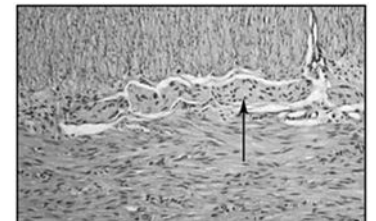
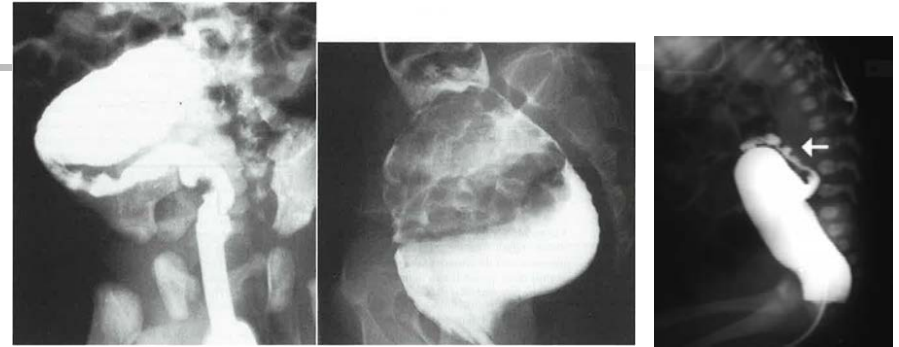
Critical Symptoms

- Normal time to passage of meconium (>99% passage is within 24 hrs of birth)
- Failure to thrive
- Intermittent diarrhea
 - (enterocolitis)
- Critical Signs
 - No fecal impaction on PR



Investigation:

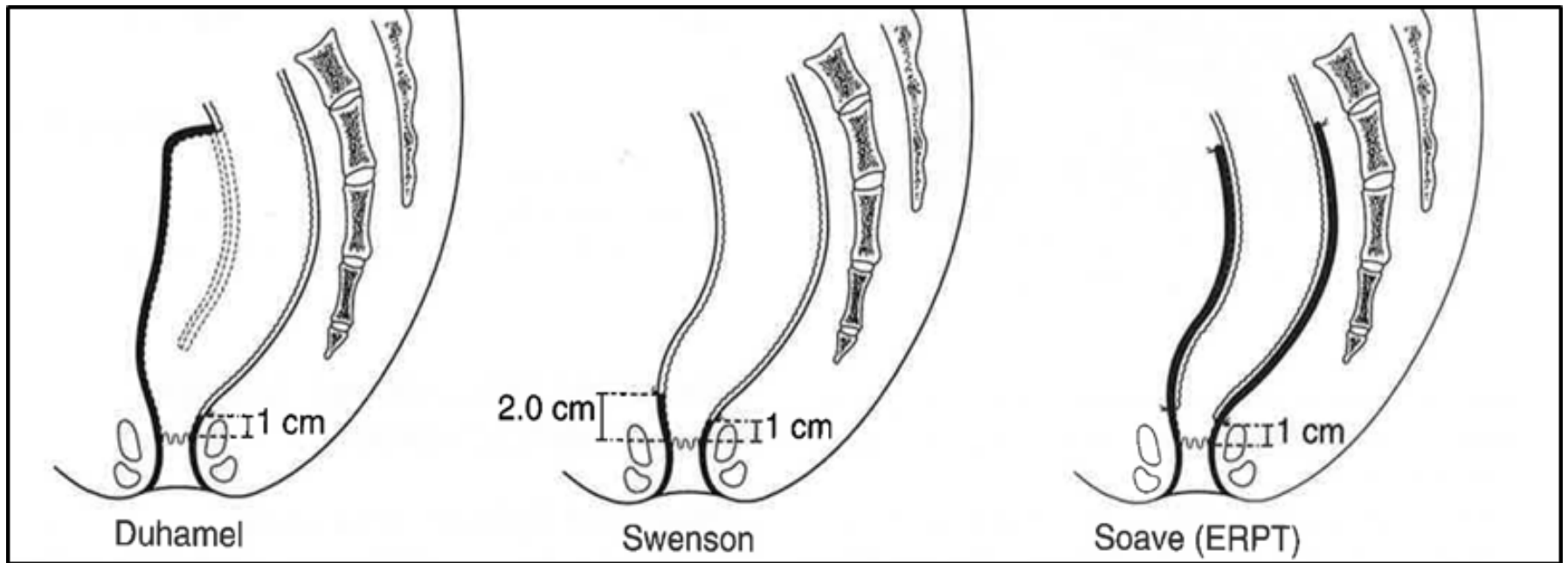
- Contrast Enema
 - For all
- Hirschsprungs
 - Biopsy
- Neuronal Intestinal Dysplasia
 - Biopsy + Manometry



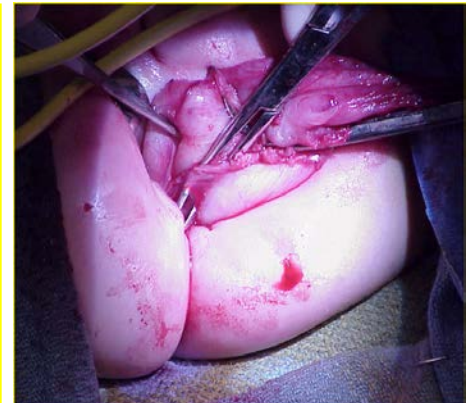
Delayed Presentation



Operative Procedures for Hirschsprung's



What's new? Transanal Approach



Long Term Follow-up: Partnership Pediatrician: Surgeon

infancy



Age:

0

3

6

12 months

Birth

Diagnosis

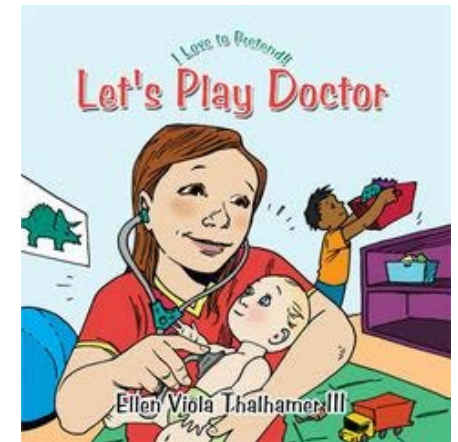
Surgery

Early follow-up

- Incontinence
- Enterocolitis (→ Rx: Metronidazole)
- Constipation

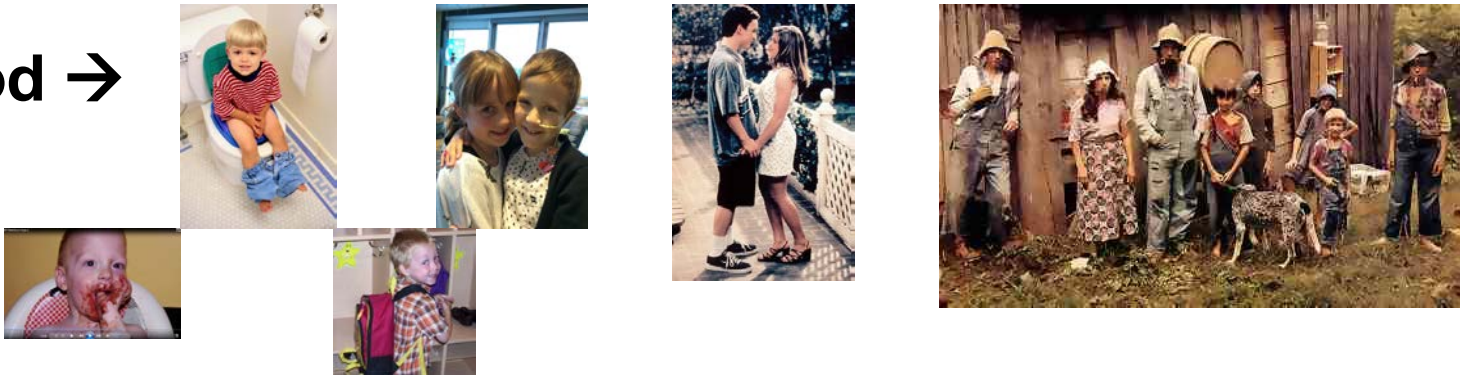
Long Term Complications

- Incontinence
- Enterocolitis (→ Rx: Metronidazole)
- Constipation
- Sexual dysfunction
- Long term follow-up essential
- Yearly Rectal!!



Long Term Follow-up: Partnership Pediatrician: Surgeon

Childhood →
Adult



Age: 0 1 2 6 12 24 40+ years

Incontinence
Enterocolitis (→ Rx: Metronidazole)
Constipation
Socialization, Sports
Sexual dysfunction
Long term follow-up essential
Yearly Rectal!!



Conclusions

- Constipation: common
- Investigate if:
 - FTT, Diarrhea, no response to conventional therapy
- Work up: Bx, Contrast, Manometry
- ↑ MIS surgery
- Long Term Follow-up Essential