

CONSTIPATION



Constipation: infrequent, difficult, painful, or incomplete evacuation of hard stools

CAUSES OF CONSTIPATION

Organic:

- Hirschsprung disease
- Hypothyroidism
- Cystic fibrosis
- Celiac disease
- Diabetes
- Spinal cord abnormalities
- Anorectal malformation
- Drugs (eq. opioids, antidepressants)
- Toxins (eg. lead)

Functional (90-95%):

- Irritable bowel syndrome
- Withholding behaviour (eg. fighting the urge to go due to fear or embarrassment)
- Poor fluid intake
- Insufficient dietary fiber
- Dietary changes
- Sedentary lifestyle

BRISTOL STOOL CHART		
TYPE 1	0000	Severe constipation – separate hard lumps, difficult to pass
TYPE 2		Mild constipation – sausage shaped, but lumpy
TYPE 3		Normal – like a sausage, but with cracks on the surface
TYPE 4		Normal – like a sausage or snake, smooth and soft
TYPE 5	100 to 100	Lacking fiber – soft blobs with clear-cut edges (passes easily)
TYPE 6	2000年	Mild diarrhea – fluffy pieces with ragged edges, a mushy stool
TYPE 7	\$	Severe diarrhea – watery, entirely liquid, no solid pieces

PRESENTATION PHYSICAL EXAM Infrequent stools Abdominal exam: (<3x/week) distension, bowel Hard or painful to sounds, palpation for masses and pass stool

- Large, difficult to flush stool
- Blood in the stool
- Fecal incontinence (encopresis)
- Overflow diarrhea
- Abdominal pain or cramps
- Difficulty urinating
- Behavioural issues

- tenderness
- Anal fissures
- DRE to check for rectal tone, stool mass, and stool consistency
- Features of spina bifida (sacral dimple, hair tuft)
- Misplaced anal opening

PATHOPHYSIOLOGY OF FUNCTIONAL CONSTIPATION Large, hard stools Painful bowel movement Fecal material builds up Stool remains in the Withholding behavior colon → colonic due to pain or

INVESTIGATIONS

No investigations needed if history and physical exam are consistent with functional constipation

reabsorption of water

Investigations to consider:

Abdominal x-ray, TSH, celiac testing, HgA1C, CF testing, electrolytes, extended electrolytes, lead level

inconvenience



Red flags: delayed passage of meconium (> 48 hours), young infants, poor feeding and/or growth, recurrent fevers, bilious emesis, bloody stool, developmental delays, hypotonia, poor suck, abnormal neurologic exam

MANAGEMENT

Disimpaction

Bowel clean out with PEG3350 or Pico-salax

Maintenance PEG3350 for ≥ 3 months to restore normal bowel routine.

Titrate to effect.

Regular toileting

Have the child sit on the toilet after each meal.



Healthy diet

Increase fluid intake





Arrange followup



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