ANORECTAL DISORDERS

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Table 1. Functional Anorectal Disorders

F. Functional anorectal disorders

- F1. Fecal incontinence
- F2. Functional anorectal pain
 - F2a. Levator ani syndrome
 - F2b. Unspecifed functional anorectal pain
 - F2c. Proctalgia fugax
- F3. Functional defecation disorders
 - F3a. Dyssynergic defecation
 - F3b. Inadequate defecatory propulsion

What is the definition of fecal incontinence?

Epidemiology of fecal incontinence?

Fecal incontinence (FI) is defined as

- recurrent uncontrolled passage of fecal material for at least 3 months after the age of 4 years.
- fecal staining of underwear may reflect poor hygiene, prolapsing hemorrhoids, or rectal prolapse rather than true FI, but for practical purposes it is included in the definition of FI.
- Clear mucus secretion must be excluded by careful questioning.

Prevalence of fecal incontinence:

- 7% to 15% in community-dwelling women
- 18% to 33% in hospitals
- 50% to 70% in nursing homes
- prevalence comparable or lower in men than women

Causes of fecal incontinence?

Table 2. Common Causes of Fecal Incontinence

Anal sphincter weakness

Traumatic: obstetric, surgical (eg, hemorrhoidectomy, internal sphincterotomy, fistulectomy)

Nontraumatic: scleroderma, idiopathic internal sphincter degeneration

Neuropathy

Peripheral (eg, pudendal) or generalized (eg, diabetes mellitus)

Pelvic floor disorders

Rectal prolapse, descending perineum syndrome

Disorders affecting rectal capacity and/or sensation^a

Inflammatory conditions: radiation proctitis, Crohn's disease, ulcerative colitis

Anorectal surgery (pouch, anterior resection)

Rectal hyposensitivity

Rectal hypersensitivity

Central nervous system disorders

Dementia, stroke, brain tumors, multiple sclerosis, spinal cord lesions

Psychiatric diseases, behavioral disorders

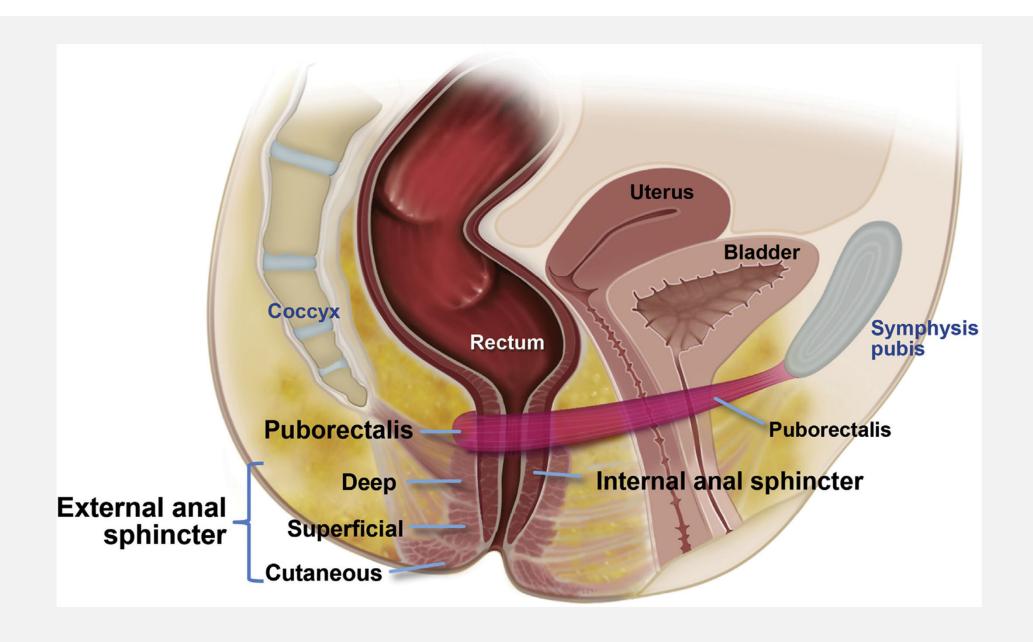
Bowel disturbances

Irritable bowel syndrome, post-cholecystectomy diarrhea Constipation and fecal retention with overflow

^aThese conditions may also be associated with diarrhea.

Which diagnostic procedures should be used?

- History:
- Digital rectal examination
- Endoscopy
- Imaging: Endosonography, (MR-)defecography, MRI
- Anorectal manometry



ANORECTAL MANOMETRY

- 1. Resting anal pressure: 70%) attributable to internal anal sphincter function
- 2. Squeeze pressure: the strength and duration of voluntary external anal sphincter and puborectalis contraction
- 3. Internal anal sphincter inhibitory reflex
- 4. Threshold volume of rectal distention
- first sensation of distention,
- a sustained feeling of urgency to defecate,
- Maximum tolerable volume

5. Attempted defecation

- increased intra-abdominal pressure and relaxation of the pelvic floor muscles (normal),
- or by paradoxical contraction of the pelvic floor muscles, which may be relevant to symptoms
- Balloon expulsion test
- (6. **Rectal compliance** can be evaluated by assessing the pressure volume relationship during stepwise distention of a latex balloon. Barostat preferable.)

Treatment?

Dietary/pharmacological:

Low fructose

Fiber supplementation, psyllium

Loperamid

Amitryptilin

Osmotic laxatives (overflow incontinence), suppositories/enemas

Biofeedback therapy/pretibial nerve stimulation

Surgery:

Sphincter repair

Sacral nerve stimulation

FUNCTIONAL ANORECTAL PAIN

Definition?

FUNCTIONAL ANORECTAL PAIN

Levator ani syndrome:

Vague, dull ache or pressure sensation high in the rectum, worse with sitting than with standing or lying down.

Physical examination may reveal spasm of levator ani muscles and tenderness on palpation.

Overlap with dyssynergic defecation disorder

Proctalgia fugax:

Sudden, severe pain in the rectal area, lasting for a few seconds to several minutes (rarely up to 30 minutes.

Pain is localized to the rectum in 90% of cases.

Attacks are infrequent, typically occurring fewer than 5 times per year

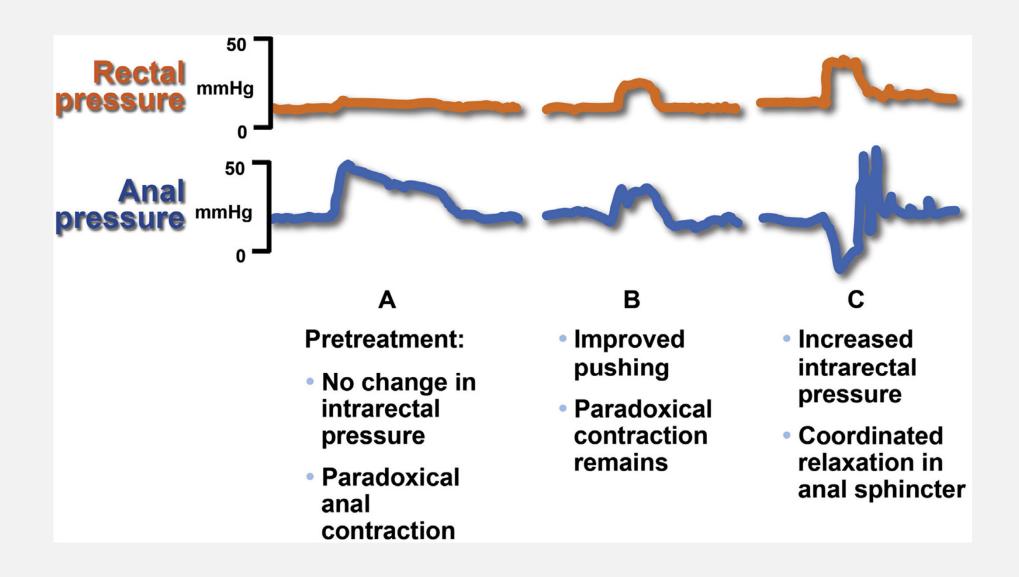
FUNCTIONAL DEFECATION DISORDERS

Definition and diagnostic procedures?

FUNCTIONAL DEFECATION DISORDERS

Diagnostic Criteria for Functional Defecation Disorders

- I. The patient must satisfy diagnostic criteria for functional constipation and/or irritable bowel syndrome with constipation
- 2. During repeated attempts to defecate, there must be features of impaired evacuation, as demonstrated by 2 of the following 3 tests:
 - a. Abnormal balloon expulsion test
 - b. Abnormal anorectal evacuation pattern with manometry or anal surface EMG
 - c. Impaired rectal evacuation by imaging



FUNCTIONAL DEFECATION DISORDERS

- I. Patient education: Explain to patients that they inadvertently squeeze or fail to relax their anus when they are straining.
- 2. Enhance push effort: Teach the patients to effectively push, when straining, by appropriately increasing the intra-abdominal pressure;
- 3. Train to relax pelvic floor muscles: Biofeedback
- 4. Practice simulated defecation