

FAECAL INCONTINENCE

Involuntary loss of liquid/solid stool

AETIOLOGY

1. **Sphincter injury**

(i)obstetric: commonest cause in women (long 2nd stage, instruments, episiotomy, high birthweight) (ii)iatrogenic: haemorrhoidectomy/fistulotomy (high/complex/repeat procedures) (iii)trauma

2. **Rectal volume:** proctectomy/low ant res. (worse w/ DXT)

3. **Rectal compliance:** stiffens w/ radiation proctitis/IBD

4. **Obstructive defecation:** intussusception/rectocele → incomplete emptying w/ reversal of rectoanal inhibitory reflex

5. **Idiopathic FI:** (i)Pudendal neuropathy (PNTML[^]/MNFD[^]/low squeeze pressure/decreased anorectal sensation/hypersensitivity)

(ii)Perineal descent: chronic straining/vaginal deliveries (damage pudendal nerves and sphincters)

CLINICAL FEATURES

Incontinence patterns:

Urge (cannot defer movement) = EAS or proctitis/carcinoma *Or mix of both*

Passive (unaware of leakage)= IAS/anatomical deformity eg FIA

History:

Frequency/Urgency/Severity/Consistency/Tenesmus/Incomplete evacuation/Need to digitate/Bleeding/Bloating

Assess for/exclude: faecal loading, diarrhoea causes, cancer, prolapse, 3° piles, acute sphincter injury, acute neuro deficit

PMHx: Surgical/obstetric/urinary || FHx: || Medx: || SHx: QoL

Examination:

Abdominal:

Anorectal: gaping anus due to low tone; resting tone+voluntary squeeze (EAS/IAS), sphincter defects,

Perineal: scarring of obstetrics/surgery/trauma, descended perineum (on straining), prolapse/rectocele

Investigations:

PNTML/MNFD rarely useful

Manometry: IAS (resting) + EAS (voluntary) squeeze → both low

EAUS: Sphincter defects

MRI defecography: obstructive defecation symptoms

MANAGEMENT

Conservative Management:

Diet: stool consistency (fibre/fluids)

Meds: stool bulking (loperamide 0.5mg-16mg/day; syrup) || rectal emptying (supps/enemas/oral laxatives/rectal irrigation)

Pelvic floor physio:

Biofeedback: retraining strength, coordination, sensation (10-15 sessions w/ 6 mthly follow-up)

Anal plug: expands when soaked by faecal contents → useful if reduced sensation eg neurological deficits

Surgery:

1.Sphincter Defect → (i)repair if 90-120° (ii)injection/artificial sphincter/ACE/end colostomy if >120°

2. No Sphincter Defect → SNS test → (i)implant if +ive test (ii)injection/artificial sphincter/ACE/end colostomy if -ive

(a)Sphincteroplasty (anterior/overlapping): 90-120° EAS defect **outcome deteriorates with followup**

Not beneficial if: IAS defect, EAS atrophy, multiple defects, fragmentation, pudendal neuropathy, diarrhoea, IBS

(b)Sacral Nerve Stimulator: recruit add. function from sphincters/pelvic floor + colonic motility + lower rectal sensory threshold

Contraindications: sacral pathology, skin disease, sphincter damage, pregnancy, bleeding risk, PPM or defib, mental health

(c)Injection: bulking+fibrosis in submucosal/intersphincteric plane (short, limited efficacy) **passive FI due to IAS dysfunction**

(d)Artificial sphincter: lower rectum/upper anal canal cuff +LM/scrotum pump (const/balloon perf) **NICE: severe end-stage FI**

(e)Antegrade Continence Enema: appendi/caeco/ileostomy irrigation to empty colon/rectum

(f)End colostomy: severe end-stage FI when all other treatments contraindicated/failed

(g)Other: PTNS/TENS peripheral, terminal ambulatory stimulation of tibial nerve at malleolus for mild idiopathic FI/spinal trauma