Episode 6. Show Notes
Faecal Incontinence
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Social Media / Website
Any resources you would specifically like us to include on the website. We will be looking to summarise the #mdteacclub discussions and add any additional resources generated to the website too.

- Association of Continence Advice [https://www.aca.uk.com/](https://www.aca.uk.com/)
- Bladder and Bowel UK [https://www.bbuk.org.uk/](https://www.bbuk.org.uk/)
- Bladder and Bowel Community [https://www.bladderandbowel.org/](https://www.bladderandbowel.org/)
- Royal College of Nursing Guidance for Nursing Management of lower bowel dysfunction including DRE and DRF [https://www.rcn.org.uk/professional-development/publications/pub-003226](https://www.rcn.org.uk/professional-development/publications/pub-003226)
Main Show Notes:

Learning Outcomes

Knowledge:
- To understand the prevalence and problems associated with faecal incontinence
- To be able to think through a range of possible diagnoses that are associated with FI
- To be able to instigate initial investigation and management for FI in inpatients and outpatients

Skills:
- To be able to take a history from a patient with FI
- To be able to identify how FI may be affecting your patient

Attitudes:
- To understand that FI is a condition associated with a range of potential management options
- To understand that FI has a large impact on quality of life and location of care
Definitions:

It is a symptom not a condition in itself.

"Faecal incontinence is the involuntary passage of flatus or faeces through the anal canal."

The underlying aetiology is often complex with multiple possible contributing factors including:

- anorectal structural abnormalities,
- neurological disorders,
- cognitive or behavioural dysfunction,
- stool consistency,
- or general disability (particularly age).
- Sometimes no cause can be found.

In Dementia however this is not really enough... as explored in one study based at the university of Hertfordshire:

"a more dementia-focused definition of FI that sees it as an aspect of "toileting difficulties" that may be experienced by people living with dementia. Toileting difficulties are the "voiding of urine or feces either following an unsuccessful effort or with no apparent attempt to use an acceptable facility." This conceptualization reframes continence in the social and environmental context.

Buswell et al What Works to Improve and Manage Fecal Incontinence in Care Home Residents Living With Dementia? A Realist Synthesis of the Evidence, J Am Med Dir Assoc. 2017 Sep 1;18(9):752-760.e1
Key Points from Discussion

1. Introduction

This is a common thing... and a common thing we don’t like to think about / talk about.

- Depending upon the definition and frequency of faecal incontinence, the prevalence varies from 1% to 10%
- However, when comparable methodologies and definitions are used, studies produce remarkably similar prevalence rates in different community populations (around 8.3% to 8.4% for face-to-face or telephone interviews, and 11.2% to 12.4% for postal surveys).

BMJ Best Practice - Faecal Incontinence in Adults

- Frequency of FI increases with age.
- Once UK study (a well constructed postal study) found up to 10% of Men and women >80yrs had at least yearly episodes of FI - 8% for monthly.
- 22% had faecal staining on underwear.
- 50% of those with ‘major’ symptoms reported it affecting their quality of life.


That said:
Reported prevalence estimates for fecal incontinence among community-dwelling adults vary widely. A systematic review was undertaken to investigate the studied prevalence of fecal incontinence in the community and explore the heterogeneity of study designs and sources of bias that may explain variability in estimates.

Conclusion:

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A consensus definition of fecal incontinence is needed that accounts for alterations in quality of life. Further cross-sectional studies are required that minimize bias in their design and use validated self-administered questionnaires.


- 1 in 8 adults provide formal care for people. Difficulties in managing continence put an additional strain on this relationship and can lead to carer breakdown. It is the second commonest reason for people to be moved into a care home.
- There is a significant link between persons with faecal and urinary incontinence. And an association with greater physical disability.
- Over 50% of people had not discussed the symptom / problem with anyone prior to being asked in one study.


- Faecal incontinence disproportionately affects individuals with severe physical and mental disabilities.
- Patients living in institutions have an extremely high rate of faecal incontinence.
- Poor functional status, impaired cognitive ability, and limited mobility all contribute to incontinence in nursing-home residents, and the rates of incontinence rise with the length of time spent in nursing homes.
- A Canadian study of long-term hospital patients found a prevalence of 46%. Similarly, in a US survey of patients in nursing homes 47% had faecal incontinence.

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Similar figures have been found in care homes in USA, Brazil and the UK. It also appears that the longer in a care home the greater the chance of developing FI.

New Zealand: https://www.ncbi.nlm.nih.gov/pubmed/29127713
Brazil: https://www.ncbi.nlm.nih.gov/pubmed/25721982
USA: https://www.ncbi.nlm.nih.gov/pubmed/28407296

Key parts of the history as to how troublesome the symptom is are the frequency of soiling and the volume of leakage of faeces.

Faecal incontinence in care homes is estimated to range from 10% to 50% (ICI 2017)

Rectal carcinoma 20% present with sole symptom of fecal incontinence

Red flag symptoms for bowel cancer

Normal Physiology

Need to understand normal before understanding abnormal.

- The GI Tract is amazingly complex. There are more neurons in the GI tract than the spinal cord, and the gut contains sensory neurons specialised to detect chemical, osmotic, thermal and mechanical changes in the gut wall.
● This information is integrated by the CNS via sympathetic and parasympathetic neurons which synapse with the intra-mural neurons and provide the program for the motor neurons. This allows purposeful and coordinated gut programs such as peristalsis and sphincter control.

Pathophysiology of Disease - An introduction to clinical medicine - McPhee 1995

● The complex mechanism of continence depends on an interaction of this sphincter function, with that of stool consistency, transit of colonic contents, rectal reservoir function and compliance, anorectal sensation, and pelvic floor anatomy.

● Normally, passage of stool or flatus into the rectum allows distension and temporary relaxation of the internal sphincter so that the contents can be sampled by the richly innervated anal transition zone.

● Higher centre perception allows further relaxation of the sphincter complex in order to evacuate if socially acceptable. If unacceptable, the external sphincter complex is contracted and the urge to defecate resisted until later.

● Any disruption, dysfunction, or overwhelming of this pathway may result in incontinence.

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Causes:
There are essentially 7 aetiological subgroups with patients falling into one or more groups:

To talk through these between Iain, Jo and Phillipa thinking about examples of each. Might blend in the treatment also as we do this.

Thinking about anatomical then nerve input (control), then stool based factors and finally behaviour

1. Structural anorectal abnormalities (e.g., sphincter trauma, rectal prolapse) including congenital abnormalities, when symptoms may recur in adult life despite surgical repair
2. Neurological abnormalities (e.g., multiple sclerosis, stroke, pudendal neuropathy)[7]
3. Alterations in stool consistency (e.g., infectious diarrhoea, inflammatory bowel disease)
4. Overflow (e.g., encoparesis, impaction)
5. Cognitive/behavioural dysfunction (e.g., dementia, learning difficulties)
6. General disability (e.g., age, acute illness)
7. Idiopathic

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Management will depend on the cause

**Investigations:**

There is an algorithm here (and we will put in the show notes) for the management of FI from an article in the Lancet in 2014. There is a lot of emphasis on quite complex investigations and management that are probably beyond the scope of most people... but it's worth looking at as:

a) it shows the importance of treating and diarrhoea first and

b) it shows the sort of options out there.

Does not really cover overflow / impaction / cancer though - so need to have an index of suspicion about this

*From Wendy: Pudendal nerve testing is no longer done and rarely would repeat sphincteroplasty be carried out dynamic graciloplasty on carried out at one centre and rarely would an artificial bowel sphincter be carried out. Could add in Posterior Tibial Nerve Stimulation*
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Consequence of FI

Thinking about the consequences though also

QOL - as we have seen above this is a large part of the impact and needs active consideration - patients may not vocalise this.

Skin:

Faecal enzyme activity increase/pH increase/Microbes increase

These all lead to increased permeability of the skin > weakened skin > increased risk of pressure damage.

Key points:

- Routine skin inspection
- Skin cleansing
- Skin protection

Cooper P. Skin Care: managing the skin of the incontinent patient. Wound Essentials Volume 6, 2011

There is good evidence that appropriate diet, fluid intake, and increased mobility help as part of improving FI. The ways in which these strategies are introduced or improved for...
those residents with dementia should incorporate both the preferences of the person with dementia and consideration of how the activities and routines of the care home support this.

Further research is needed that considers how different care routines and practices can be aligned with interventions to enhance continence care for this population.

Busswell et al. What Works to Improve and Manage Fecal Incontinence in Care Home Residents Living With Dementia? A Realist Synthesis of the Evidence. J Am Med Dir Assoc. 2017 Sep 1;18(9):752-760.e1

Treatment

We will think about the management going through each of the 7 common general causes:

Diet

- Keep a diary
- Contributing foods include prunes, figs, rhubarb, fruit juice and liquorice, and artificial sweeteners can have laxative properties
- Fibre – increase over a few days is recommended. Ispaghula husk/fybogel

Bowel habit

- After meals
- Private, comfortable toilets
- Sitting/squatting

Continence products
Disposable pads

- Anal plugs if tolerated
- Skin care advice
- Odour control products
- Disposable gloves

*Emotional/psychological support*

- Support groups and coping strategies

*Treatment By Aetiology*

*Loose stool incontinence*

- Regular antidiarrhoeal agents
- Loperamide 1st line – augments anal sphincter, reduces motility and secretions
- Codeine if not tolerated
- Amitriptylline may reduce rectal motor activity. Long term low dose
- Diphenoxylate/atropine – dose should be reduced over time but can be indefinite

*Constipation and overflow*

- Enemas and suppositories regularly – phosphate and glycerin
- Oral laxatives only used if rectal fails
  - Lactulose or senna
- Retrograde irrigation – needs dexterity
- Antegrade irrigation – complex, requires appendicostomy (complications include stenosis).

*Spinal Cord or neurogenic bowel disorder*

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● Neurological bowel management programme referral
● Establish routine – may require manual evacuation or digital anorectal stimulation
● Antegrade irrigation
● Sacral nerve stimulation
  o Wire through sacral foramen. Can test with temporary wire first.
  o Pt does not need to feel stimulation
  o Can be reprogrammed over time

- If SNS fails can consider neosphincter but high adverse effects and removal rate.

External Sphincter Deficiency

● Pelvic floor exercises
● Biofeedback – exercises to improve sensation coordination and strength of floor – using vaginal or anal equipment.
● Electrical stimulation
● Surgical anterior sphincter repair (less successful if internal sphincter defects, pudendal nn neuropathy or concurrent loose stools
● Sacral nn stimulation
● Neosphincter
  o Use an alternative mm (eg gracilis) or an artificial cuff device
  o Uses a stimulator

Internal Sphincter dysfunction

● Pelvic floor exercises
● Biofeedback
Electrical stimulation
Sphincter ‘bulking’ – injecting material into intersphincteric space (including fat, silicon or Teflon!)

**Intact Sphincter complex (intact but dysfunctional)/minor tear**

- Pelvic floor exercises
- Biofeedback
- SNS
- Neosphincter
- TCA – Amitriptylline

**Refractory disease**

- Stoma

**New/emerging treatments**

- SECCA therapy – temperature controlled radiofrequency remodelling
- Posterior tibial nn stimulation - ?efficacy. Can be performed transcutaneously though.
- Neosphincter – new types of artificial sphincter including made of magnets
- Stem cell injections
- New anal plugs and use of vaginal balloons to put pressure on rectum
- Pharmacological therapy – phenylephrine, valproate and clonidine could be useful.

**Overflow**

Refer listeners back to the episode on constipation. 3.02 - go back and listen to this

**Cognitive/behavioural dysfunction**

Regular toileting

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Good diet

Be aware when people have had BO and try to time things around this

Gastro-colic reflex use

General disability (e.g., age, acute illness)

Idiopathic

Other References


Ness, W (2013) Management of lower bowel dysfunction, Primary Health Care Volume 23 Number 5

Ness, W (2018) Managing faecal incontinence British Journal of Nursing https://doi.org/10.12968/bjon.2018.27.7.378 Published Online: April 10, 2018
**Curriculum Mapping:**

This episode covers the following areas (n.b not all areas are covered in detail in this single episode):

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<td>● Service Improvement: Level 1 - 2</td>
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<td>Foundation curriculum</td>
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<td>11. Obtains history, performs clinical examination, formulates differential diagnosis and management plan</td>
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Suggested ANP (Draws from KSF)

- 7.9 Constipation, diarrhoea, faecal impaction
- 7.18 Chronic bowel disorders including constipation and incontinence

PA matrix of conditions

- 4. Gastrointestinal

Feedback

We will add feedback to this as we receive it! The website will have the most up to date version always available: [www.thehearingaidpodcasts.org.uk/mdtea](http://www.thehearingaidpodcasts.org.uk/mdtea)

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Check out our cool infographic *A sip of...* on the website page for this episode, summarising 5 key points on this topic. It’s made for sharing!