



# The Hearing Aid Podcasts



**MDTea**  
Podcast

## Episode 6. Show Notes Faecal Incontinence

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Presented by: Dr Jo Preston, Dr Iain Wilkinson

Faculty: Dr Philippa Christie, Wendy Ness, Wendy Grosvenor

Broadcast Date: 27/11/2018

### Social Media / Website

Any resources you would specifically like us to include on the website. We will be looking to summarise the #mdteaclub discussions and add any additional resources generated to the website too.

- Association of Continence Advice <https://www.aca.uk.com/>
- Bladder and Bowel UK <https://www.bbuk.org.uk/>
- Bladder and Bowel Community <https://www.bladderandbowel.org/>
- NICE Faecal incontinence in adults: management Clinical guideline [CG49] June 2007 <https://www.nice.org.uk/Guidance/CG49>
- 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>



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## 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

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## 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.

[BMJ Best Practice - Faecal Incontinence in Adults](#)

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](#)



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## 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.

[Perry et al. Prevalence of faecal incontinence in adults aged 40 years or more living in the community. Gut. 2002 Apr; 50\(4\): 480-484.](#)

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

[Macmillan et al. The Prevalence of Fecal Incontinence in Community-Dwelling Adults: A Systematic Review of the Literature. Diseases of the Colon & Rectum September 2004. Volume 47, Issue 9, pp 1341-1349](#)

- 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.

[Edwards NI, Jones D.. The prevalence of faecal incontinence in older people living at home. Age Ageing. 2001 Nov;30\(6\):503-7](#)

- 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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[Madoff RD, Parker SC, Varma MG, Lowry AC .Faecal incontinence in adults.Lancet. 2004 Aug 14-20;364\(9434\):621-32.](#)

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.

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- 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.

[BMJ Best Practice - Faecal Incontinence in Adults](#)

## 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

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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

[BMJ Best Practice - Faecal Incontinence in Adults](#)

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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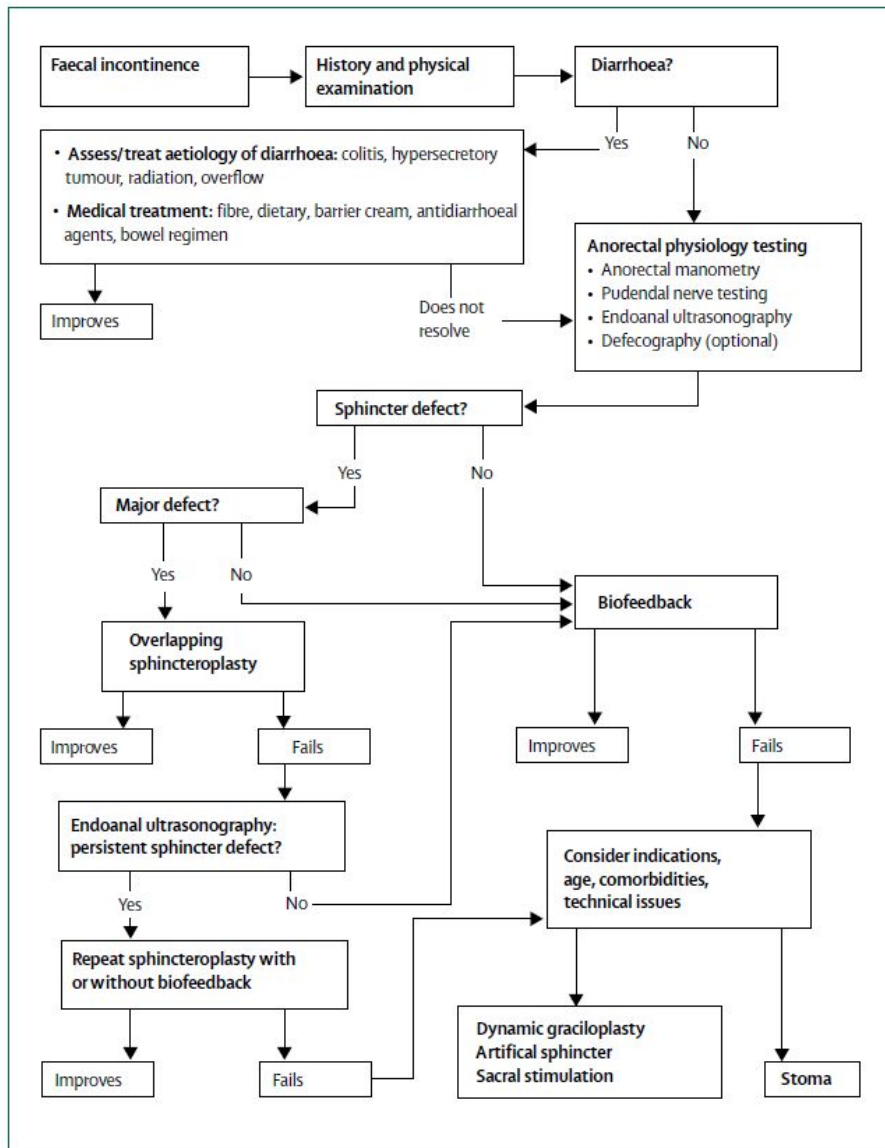


Figure 4: Algorithm for incontinence

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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

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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

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## 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 1<sup>st</sup> 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
  - Wire through sacral foramen. Can test with temporary wire first.
  - Pt does not need to feel stimulation
  - 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
  - Use an alternative mm (eg gracilis) or an artificial cuff device
  - Uses a stimulator

## *Internal Sphincter dysfunction*

- Pelvic floor exercises
- Biofeedback

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- 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. (2009) Using national guidelines to support the assessment of lower bowel dysfunction. Nursing Times, March 2009, vol./is. 105/12(16-8), 0954-7762 (2009 31 Mar)

Ness, W (2011) Assessing and treating people with bowel dysfunction. Nursing Times, March 2011, vol./is. 107/12(24), 0954-7762 (2011 29 Mar)

Ness, W (2012) Faecal incontinence: causes, assessment and management, Nursing Standard, Volume 26, 42

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<https://doi.org/10.12968/bjon.2018.27.7.378> Published Online: April 10, 2018

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## Curriculum Mapping:

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

Curriculum	Area
NHS Knowledge Skills Framework	Suitable to support staff at the following levels: <ul style="list-style-type: none"><li>• Personal and People Development: Levels 1-3</li><li>• Service Improvement: Level 1 - 2</li></ul>
Foundation curriculum	10. Recognises, assesses and manages patients with long term conditions 11. Obtains history, performs clinical examination, formulates differential diagnosis and management plan 12. Requests relevant investigations and acts upon results
Higher specialist training - Geriatric Medicine	3.2.2 Common Geriatric Problems 28. Diagnosis and Management of Acute Illness 29. Diagnosis and Management of Chronic Disease and Disability 34. Continence 48. Continence
Core Medical Training	The patient as central focus of care Relationships with patients and communication within a consultation Geriatric Medicine Abdominal Swelling & Constipation
GPVTS program	Section 2.03 The GP in the Wider Professional Environment <ul style="list-style-type: none"><li>• Core Competence: Managing medical complexity</li></ul> Section 3.05 - Managing older adults <ul style="list-style-type: none"><li>• Core Competence: Managing medical complexity</li><li>• Core Competence: Working with colleagues and in teams</li><li>• Core Competence: Practising holistically and promoting health</li></ul> 3.13 Digestive Health - Constipation

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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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