

Irritable Bowel Syndrome (Small Groups)

Adriana Lazarescu MD FRCPC, University of Alberta

Yasmin Nasser MD PhD FRCPC, University of Calgary

SCMD

Semaine canadienne des maladies digestives™

CDDW

Canadian Digestive Diseases Week™

February 29 2020

CanMEDS Roles Covered

X	Medical Expert (as <i>Medical Experts</i> , physicians integrate all of the CanMEDS Roles, applying medical knowledge, clinical skills, and professional values in their provision of high-quality and safe patient-centered care. <i>Medical Expert</i> is the central physician Role in the CanMEDS Framework and defines the physician’s clinical scope of practice.)
	Communicator (as <i>Communicators</i> , physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.)
X	Collaborator (as <i>Collaborators</i> , physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.)
	Leader (as <i>Leaders</i> , physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars, or teachers.)
	Health Advocate (as <i>Health Advocates</i> , physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.)
X	Scholar (as <i>Scholars</i> , physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.)
	Professional (as <i>Professionals</i> , physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.)

Conflict of Interest Disclosure

(Over the past 24 months)

Name: Yasmin Nasser

Commercial or Non-Profit Interest	Relationship
Allergan	Speaker, Investigator

I will discuss the off-label use of medications

Conflict of Interest Disclosure

(Over the past 24 months)

Name: Adriana Lazarescu

Commercial or Non-Profit Interest	Relationship
Allergan	Speaker, Educational grant

I will discuss the off-label use of medications

Objectives



To review the updated IBS treatment guidelines



Describe the current evidence-based pharmacologic and non-pharmacologic therapies for irritable bowel syndrome



Describe the newest pharmacologic treatments for irritable bowel syndrome

- **56-year-old female referred for a second opinion for abdominal pain, bloating and rectal bleeding**
 - 1 BM q2-3 days using Senokot (up to 6-8 tabs)
 - Uses an enema once a week as does not feel empty
 - No change in bowel habits x 5-6 years
 - Crampy abdominal pain and bloating which worsens when does not stool
 - “I feel like I am 9 months pregnant”
 - **Multiple** presentations to ED for pain and bloating

- **Blood** on the outside of the stool, mainly seen with wiping
 - Hb 132, MCV 92, Ferritin 75
 - Colonoscopy 2 years ago – Grade II haemorrhoids, 2 tubular adenomas (5-7mm), moderate sigmoid diverticulosis
 - Told to increase fiber – “worsened bloating”
- **Past History**
 - GERD, Hypertension (Lansoprazole, HCTZ)
 - Cholecystectomy, appendectomy, TAH/BSO for endometriosis, exploratory laparoscopic examinations for pelvic pain (X2)
 - 1 vaginal birth, use of forceps and episiotomy; 1 caesarian section

- **Abdominal exam**
 - Cord of stool palpable in LLQ
 - No organomegaly
- **DRE**
 - Anterior skin tag, no external haemorrhoids
 - No masses, brown stool
 - Elevated resting tone, inadequate squeeze

X-ray



Rome IV Criteria

- Recurrent **abdominal pain** at least **1 day/week** in the last 3 months associated with ≥ 2 :



Onset associated with a change in stool frequency

Onset associated with a change in stool form

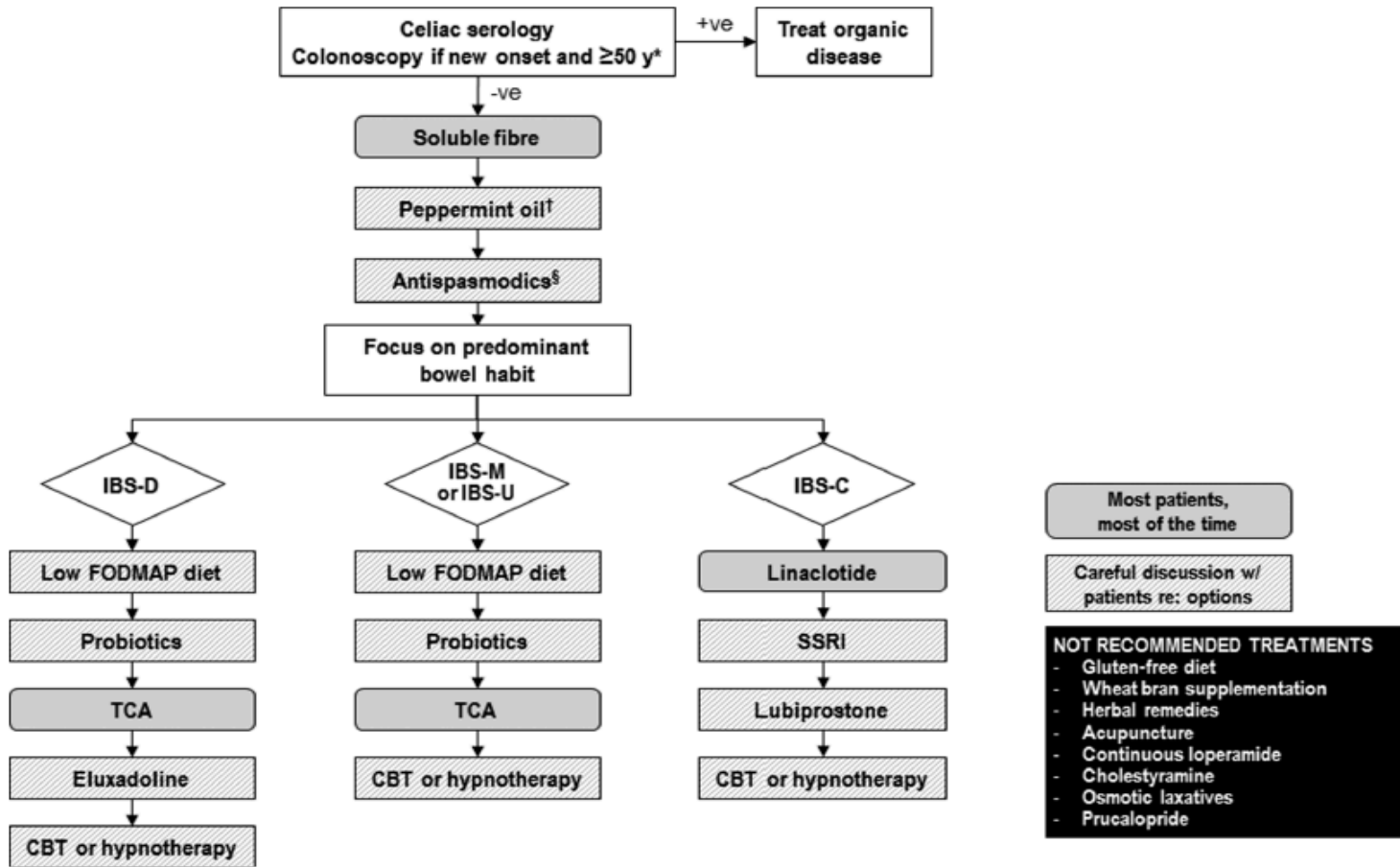
Related to
defecation

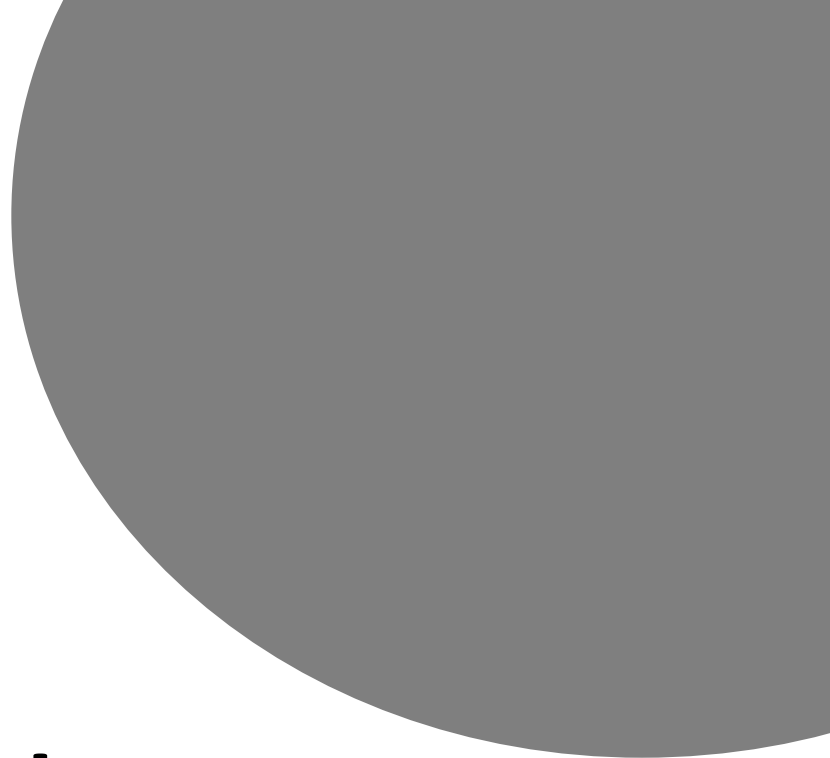
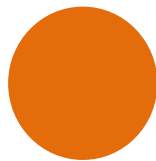
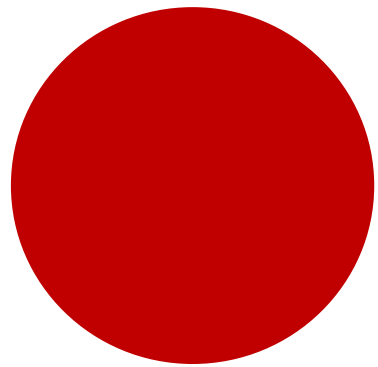
Criteria fulfilled for the last 3 months with symptom onset at least 6 months before diagnosis

Canadian Association of Gastroenterology Clinical Practice Guideline for the Management of Irritable Bowel Syndrome (IBS)

Paul Moayyedi MD¹, Christopher N. Andrews MD², Glenda MacQueen MD³, Christina Korownyk MD⁴, Megan Marsiglio MD⁵, Lesley Graff MD⁶, Brent Kvern MD⁷, Adriana Lazarescu MD⁸, Louis Liu MD⁹, William G. Paterson MD¹⁰, Sacha Sidani MD¹, Stephen Vanner MD¹⁰

¹Division of Gastroenterology, McMaster University, Hamilton, Ontario, Canada; ²Division of Gastroenterology, University of Calgary, Calgary, Alberta, Canada; ³Department of Psychiatry, University of Calgary, Calgary, Alberta, Canada; ⁴Department of Family Medicine, University of Alberta, Edmonton, Alberta, Canada; ⁵Unaffiliated; ⁶Department of Clinical Health Psychology, University of Manitoba, Winnipeg, Manitoba, Canada; ⁷Department of Family Medicine, University of Manitoba, Winnipeg, Manitoba, Canada; ⁸Division of Gastroenterology, University of Alberta, Edmonton, Alberta, Canada; ⁹Division of Gastroenterology, University of Toronto, Toronto, Ontario, Canada; ¹⁰Division of Gastroenterology, Queen's University, Kingston, Ontario, Canada

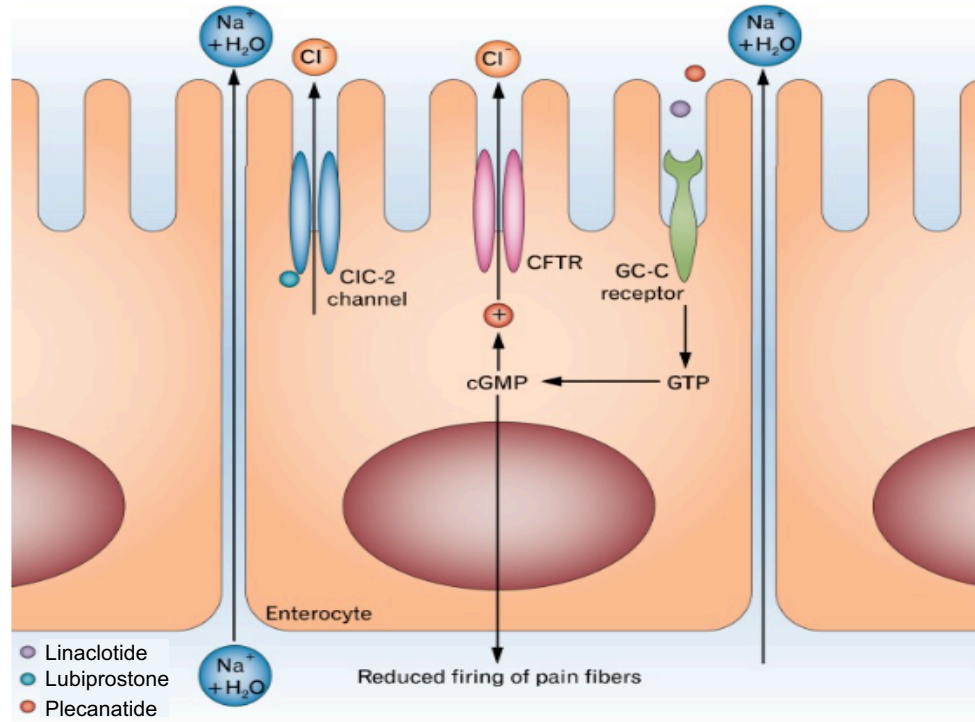




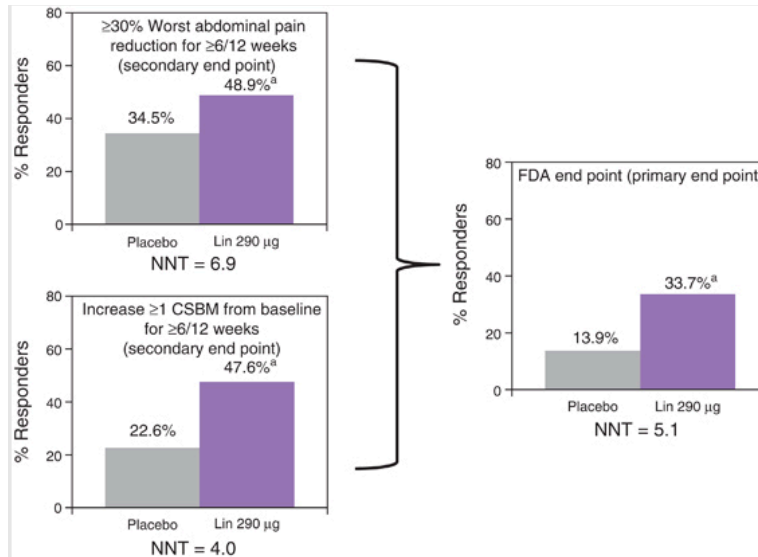
**Treatment target:
Constipation**

- **Fibre**
 - Benefits are mainly for SOLUBLE FIBRE (psyllium)
- **PEG3350**
 - Improvement in stool frequency, consistency but NOT pain or bloating
- **5HT-4 agonists**
 - Prucalopride (2mg/day)
 - NB evidence is for chronic idiopathic constipation, not IBS-C

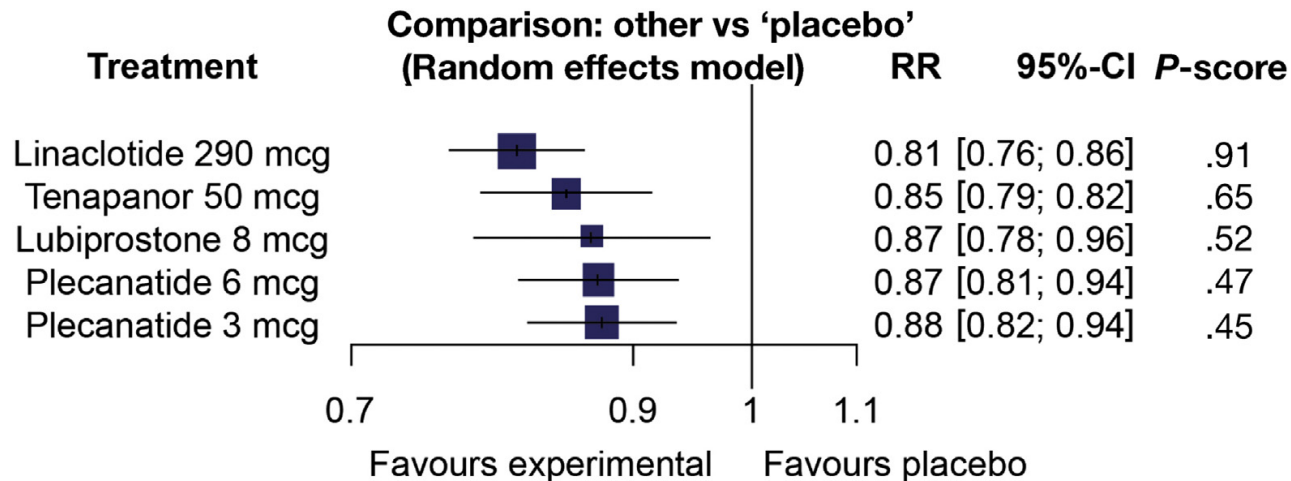
Chloride secretagogues



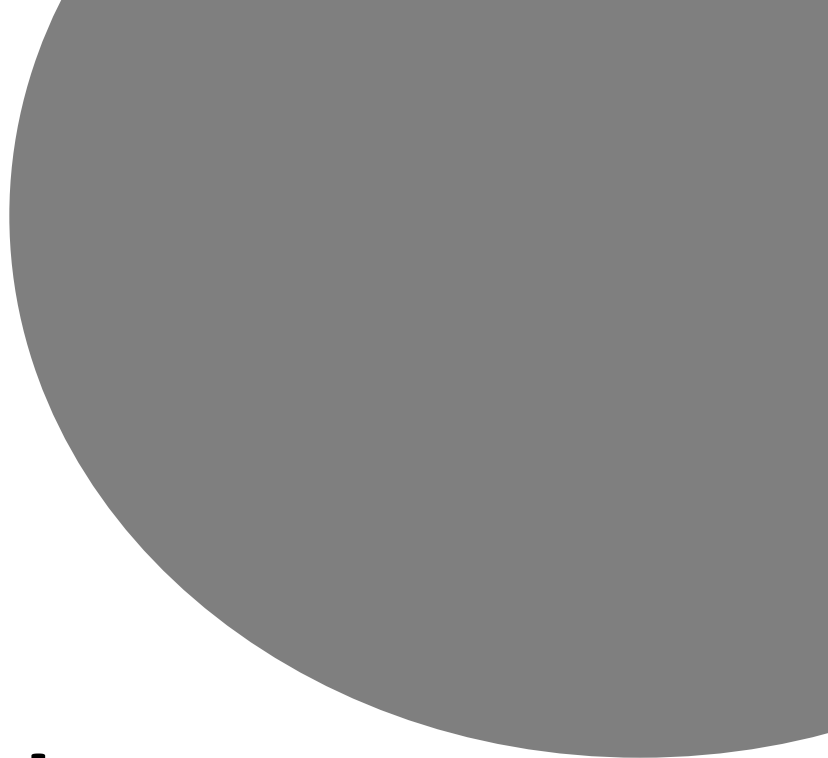
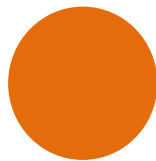
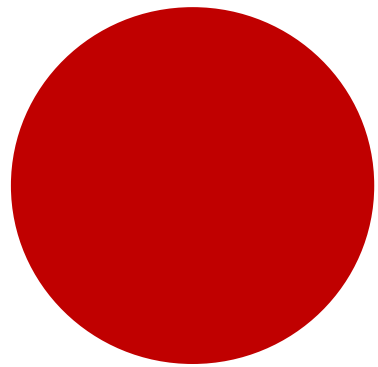
- **Linaclotide** [145 mcg daily CIC; 290 mcg daily IBS-C]
 - Accelerates colonic transit, enhances chloride secretion and improves symptoms of abdominal pain and bloating



FDA Composite Endpoint



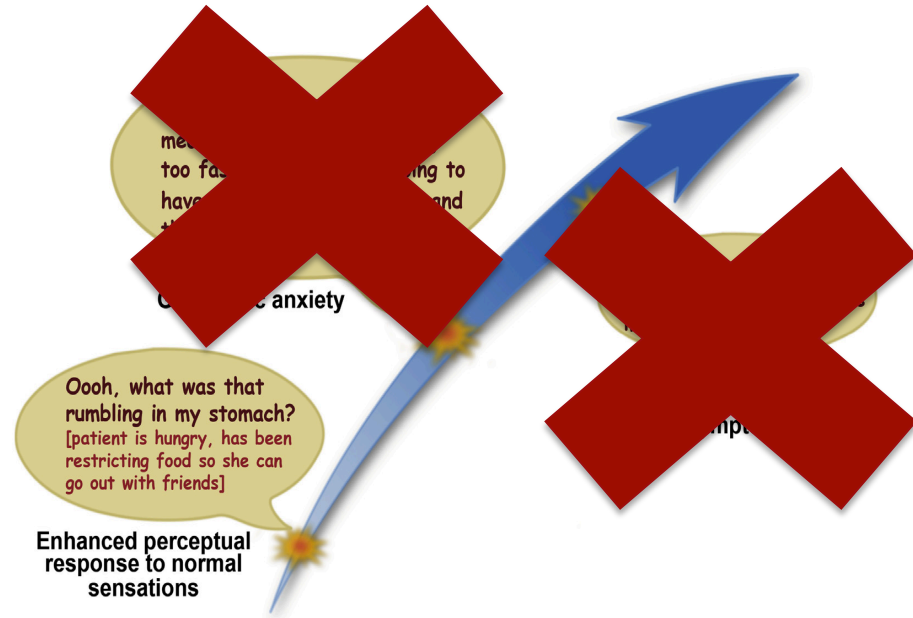
- Trial of soluble fibre/water, 4L colyte + regular PEG and **linaclotide 290mcg**
 - Worked for about ~6 months
 - Prucalopride 2mg added – alternate daily dosing
- Patient endorsed significant life stressors/psychological distress



**Treatment target:
Psychologic therapies**

Treatment – Psychological Therapies

- **CBT/hypnotherapy**
 - [NNT = 4]
 - Moderately effective
 - Home/group therapy non inferior
 - Web/telephone based effective
 - Durability



Lackner *et al. Am J Gastroenterol* 2019;114:330–338

Lackner *et al. Gastroenterology* 2018;155:47–57

Sampaio *et al. BMJ Open* 2019;9:e023881

van Oudenhove *et al. Gastroenterology* 2016;150:1355–1367

Everitt *et al. Gut* 2019 doi:10.1136/gutjnl-2018-317805

Flick *et al. Lancet Gastroenterol Hepatol* 2019; 4: 20–31

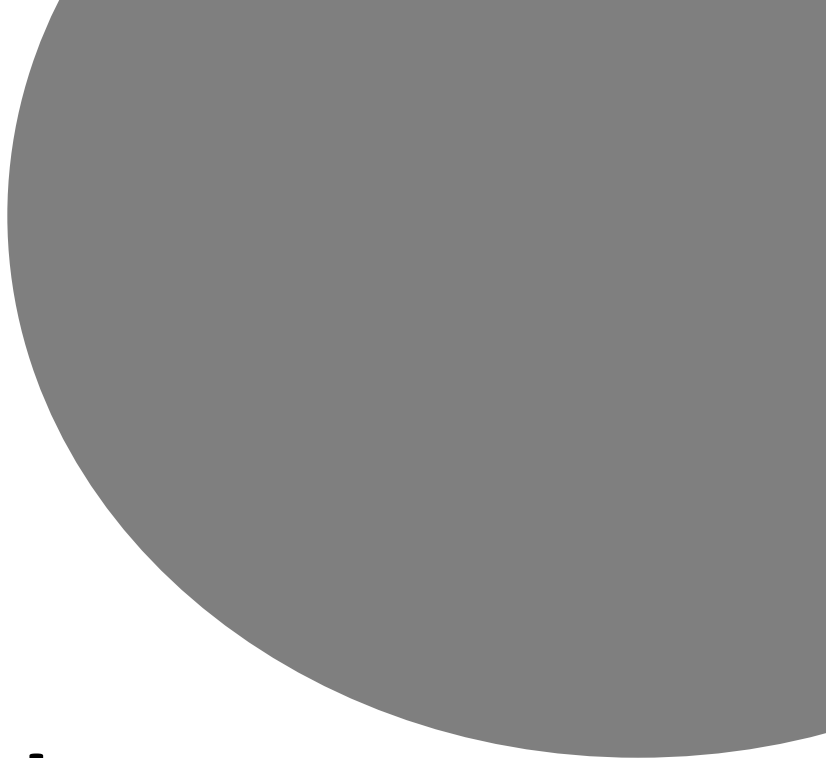
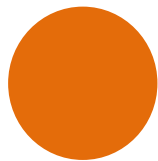
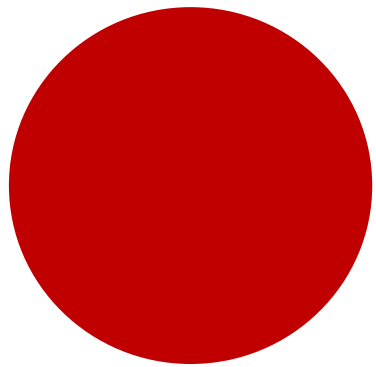
Ford *et al. Am J Gastroenterol* 2019;114:21–39.

- **Consider**
 - Non-responders to medical management
 - Stress/psychological factors contribute to Sx or impair coping
 - Recognize relationship with Sx
 - Motivation
 - Buy in
 - Patient preference

Ford *et al.* *Gut* 2009; 58: 367-378

Ford *et al.* *Am J Gastroenterol* 2014; 109 (S1): S2-26

van Oudenhove *et al.* *Gastroenterology* 2016;150:1355–1367



**Treatment target:
Pain**

- **Antispasmodics [NNT = 5]**
 - Short term relief
 - LOW quality of evidence

- **Enterically-coated peppermint oil [NNT = 3]**
 - Global improvement of IBS Sx and abdominal pain (NNT = 4)
 - Reflux is the most common side effect
 - MODERATE quality of evidence

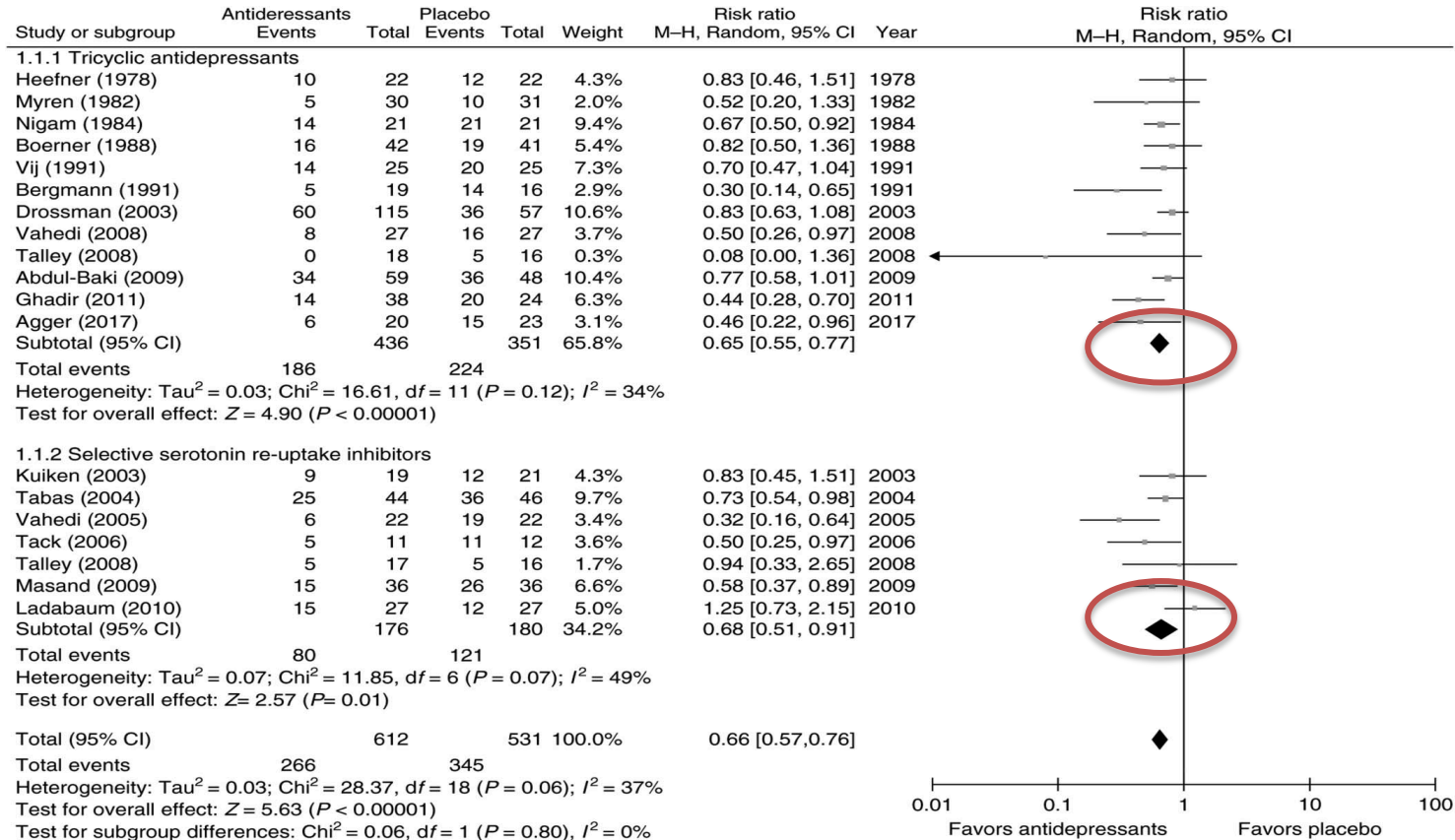
Alammar *et al. BMC Comp Alt Med* 2019, 19:21-31

Camilleri *et al. Gut* 2017; 66:966-74.

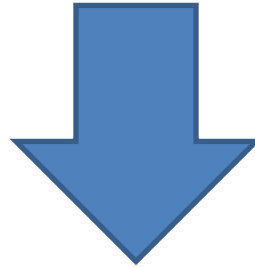
Ford *et al. Am J Gastroenterol* 2014; 109 (S1): S2-26

Moayyedi *et al. J Can Assoc Gastro* 2019, 2:6-29

Pain in IBS - antidepressants



- On fibre, PEG BID, linaclotide 290mcg po daily
- Some improvement in bloating/distention with CBT
 - GP started her on an SSRI



**Still using enemas, digitally disimpacting, only 2 CSBM/week
Not satisfied with her bowel habit**

?Refractory constipation

- 1 vaginal birth, use of forceps and episiotomy
- **DRE**
 - Anterior skin tag, no external haemorrhoids
 - No masses, brown stool
 - Elevated resting tone, inadequate squeeze

Dyssynergic defecation???

Yeah but I don't have access to anorectal manometry in my centre.....

Table 1. Comparison between DRE findings and HRAM results in the diagnosis of dyssynergia in the study patients with chronic constipation. (a) Agreement of DRE findings with HRAM results in the diagnosis of dyssynergia and (b) diagnostic performance of DRE compared with HRAM in the diagnosis of dyssynergia

(a)	HRAM		κ (<i>P</i> value)
	Dyssynergia	Normal	
DRE			0.542 (<0.001)
Dyssynergia	193 (93.2%)	19 (41.3%)	
Normal	14 (6.8%)	27 (58.7%)	
(b)	Estimated value	95% CI	
		Lower limit	Upper limit
Sensitivity	0.932	0.905	0.955
Specificity	0.587	0.464	0.690
PPV	0.910	0.884	0.933
NPV	0.659	0.520	0.774

CI, confidence interval; DRE, digital rectal examination; HRAM, high-resolution anorectal manometry; NPV, negative predictive value; PPV, positive predictive value.