Early description of symptoms defining IBS

– unstable colon

spastic colitis

- 1849 W Cumming
 - "The bowels are at one time constipated, at another lax, in the same person. How the disease has two such different symptoms I do not profess to explain..."
- ·Historical
- HISTOFICAT

 mucous colitis

 colonic spasm

 neurogenic mucous colitis

 irritable colon

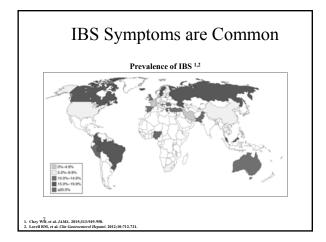
- •Chronic Relapsing Symptoms
- Long-term (~10 years) followup suggests:

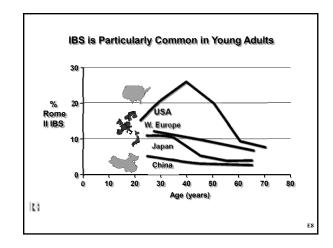
30% improved

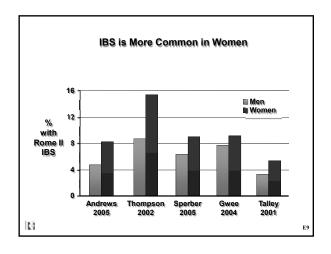
70% unchanged/worse

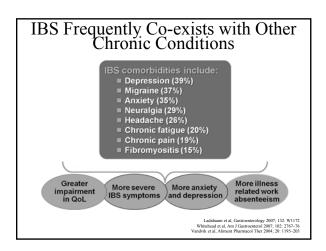
Natural History of IBS

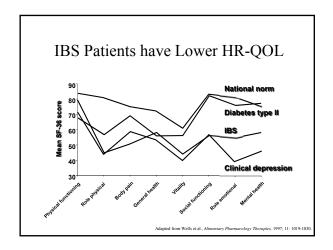
- · Chronic, relapsing symptoms
- · Long-term follow-up suggests that
 - $-~\sim 20\%$ worsened
 - ~ 50% remained unchanged
 - $-\sim 30\%$ improved

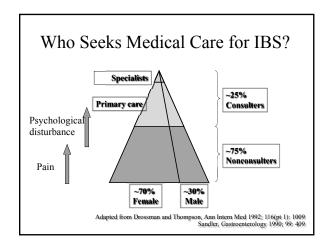


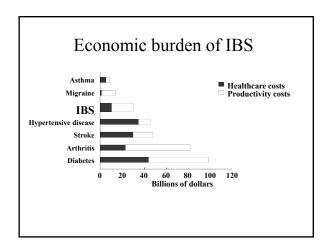


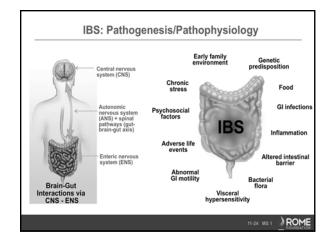












Clinical Presentation

- 32 year old woman with a 5-10 year h/o frequent attacks of severe, crampy abdominal pain in the LLQ associated with diarrhea (loose/watery stool associated with rectal urgency). Her pain usually improves after BMs. Rarely has constipation.
- She denies wt. loss, BRBPR, nocturnal symptoms, F/H Colon CA or IBD. She work-outs daily, and eats a vegetarian diet. Medications: Vit. D and levothyroxine
- · PE: No abdominal scars, masses, or distention. Rectal exam: G-, normal tone, appropriate descent

History and Physical Examination for Lower GI Symptoms

History

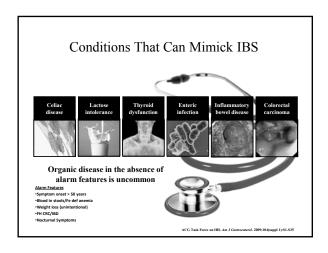
- Presenting symptoms
- · Establish history timeline
- Presence of alarm signals
- Family history: IBS, organic GI disorder
- Review current medications

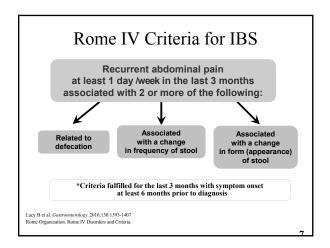
Examination

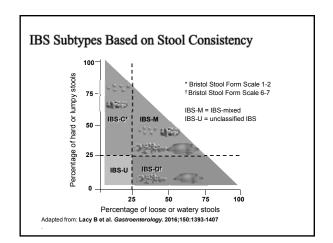
- Signs of systemic and local diseases that might cause constipation
- · Assess the anorectum and pelvic floor muscles
- Other relevant abnormalities

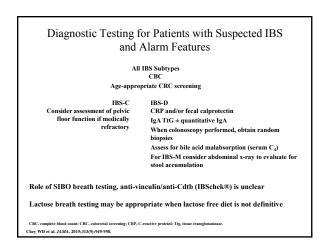
11-18 FM 32 ROME

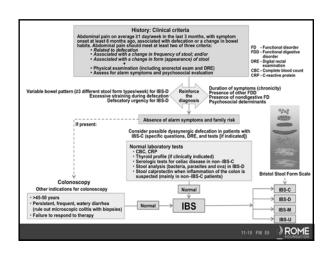


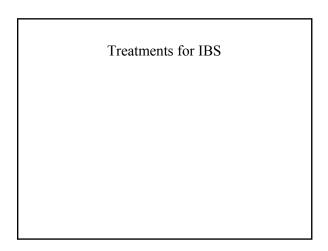


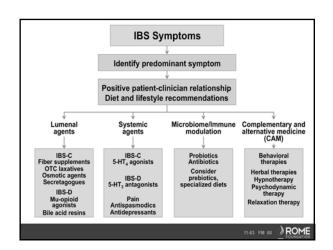


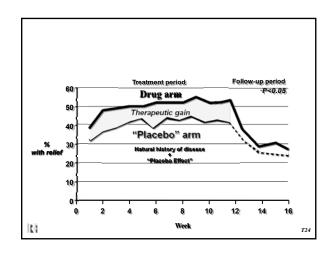








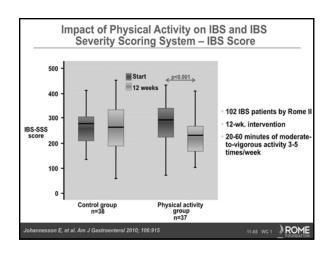




Dietary and Lifestyle Considerations

- Up to $\frac{2}{3}$ of IBS patients associate symptom onset or worsening with eating a meal
- Maintaining a brief diary of dietary intake and symptoms may help determine if a correlation exists between food and IBS symptoms Common triggers include:
 - Fatty/greasy food
 - Poorly absorbed carbohydrates
 - Gas-producing foods
 - Soluble fiber

enterol. 2015;6:e107. Clin North Am. 2003;32:507-529. conterol. 2009;104(suppl 1):S1-S35 trol. 2011;106:915-922.



Diets in IBS

· Pros:

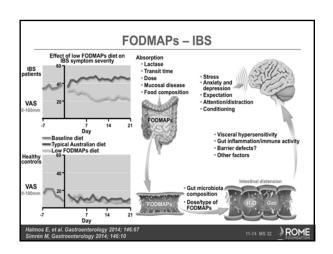
- Non-pharmacological
- Most provide symptom relief, at least short term

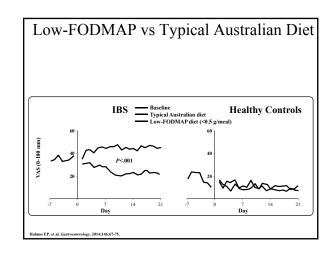
• Cons:

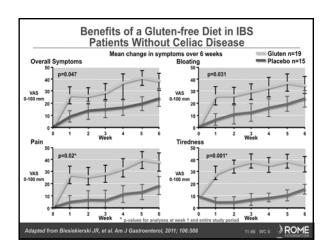
- No standard diet
- Difficult and expensive to follow
- Nutrition consult often necessary
- Long term impact on health is unclear
- Well conducted controlled trials are lacking
 - · Many claim efficacy, few have proof

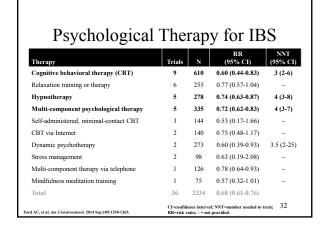
The FODMAP Diet Eliminate foods containing FODMAPs1-3 Excess Fructos Lactose Fructans Galactans Polyols vegetables onion, leek, garlic, shallots, artichokes, milk milk from cows, fruit apple, pear, apricot, cherries, peaches, nectarines, plums, watermelon vegetables cauliflower, mushrooms sweeteners apple, mango, pear, goats, or sheep; custard, ice cream, chickpeas, kidney beans, lentils asparagus, peas, beetroot, chicory cereals wheat, barley, rye watermelon yogurt cheeses soft unripened sweeteners sugar, high-f cheeses (eg, cottage cheese, ricotta) sweeteners sorbitol, mannitol, xylitol, chewing

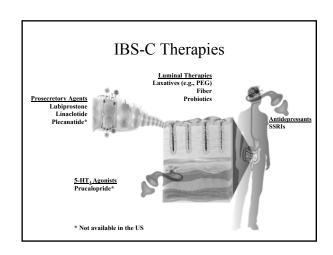
Shepherd SJ, et al. Am J Gastroenterol. 2013;108:707-717. Shepherd SJ, Gibson PR. J Am Diet Assoc. 2006;106:1631-1639 Barrett JS, Gibson PR. Ther Adv Gastroenterol. 2012;5:261-268

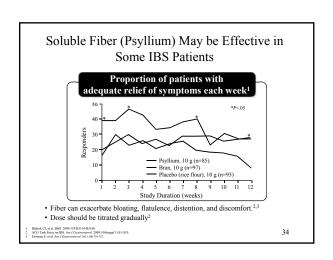


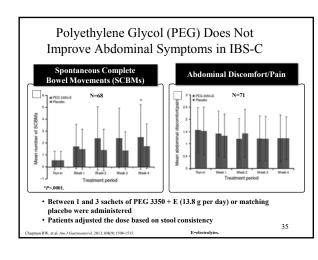












Probiotics General Considerations

- Probiotics are 'live microorganisms which when administered in adequate amounts confer a health benefit on the host'
- Traditionally in foods (e.g., kefir and yogurt), recently sold separately
- Least regulated product consumers use in their bodies (considered a medical food or dietary supplement not a drug)
- Many effects are strain specific, yet only genus and species appear on the label

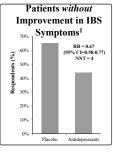
F--- AC -- - 1 4-- IC------ 2014-100-1647-1661

Probiotics in IBS

- Probiotics appear to improve global symptoms, bloating, and flatulence
- Recommendations regarding individual species, preparations, or strains cannot be made
- NNT of 7 (95 % CI 4 12.5)
 - Subanalysis showed only combination probiotics, Lactobacillus plantarum DSM 9843 and E. coli DSM17252, to be effective

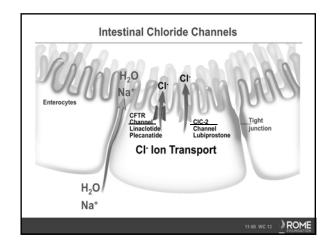
Antidepressants Can Improve IBS Symptoms

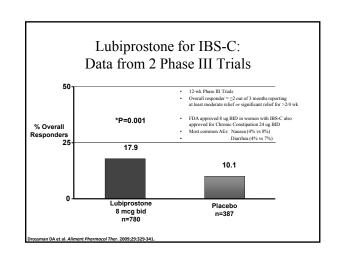
- Effective at reducing IBS symptoms and abdominal pain¹
- Adverse effect profiles may guide use in IBS subtypes²
- · TCAs best for patients with IBS-D
- · SSRIs best for patients with IBS-C

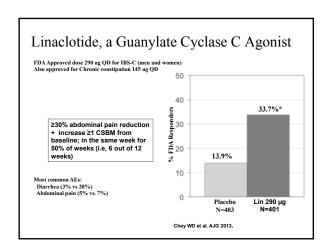


 $RR{\texttt{--relative risk; SSRI--selective seroton in-reuptake inhibitor; TCA--tricyclic antidepressant.}$

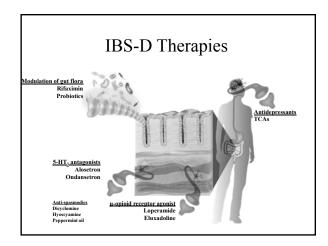
Ford At et al. Am J Gastroenterol. 2014;1350-1365.
 Chey WD, et al. JAMA. 2015;313:949-958.







ACG Task Force Recommendations for IBS-C Diets Weak Very low Likely to relate to only some pts Fiber Moderate Psyllium may be more effective than insoluble Probiotics Weak Very low Likely only some pts will respond No evidence that PEG Polvethylene Weak Very Low improves overall symptoms and pain in IBS Lubiprostone Strong Moderate Cost Linaclotide High



Loperamide for IBS with Diarrhea

- . Only antidiarrheal studied in IBS
- Three RCTs of low-intermediate quality
- Decreased stool frequency and improved stool consistency but not abdominal pain or global IBS symptoms
- Most appropriate for patients with diarrhea-predominant symptoms

14

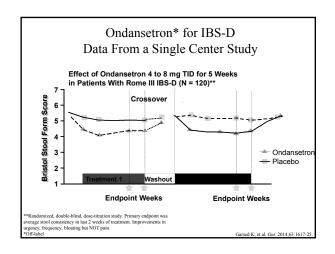
Brandt LJ et al. Am J Gastroenterol 2002; 97 suppl: \$7

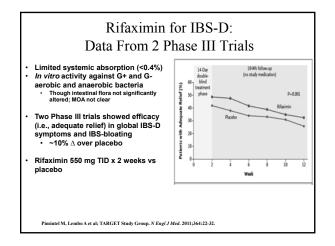
T44

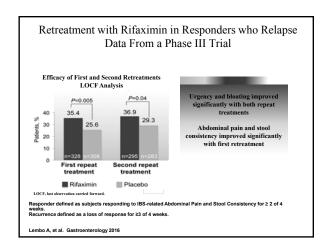
Antispasmodics in IBS Limited Evidence

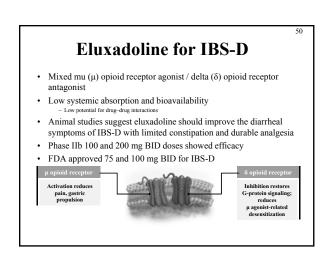
- Most are anticholinergics reduce bowel construction
 - Side effects include dry mouth, constipation, urinary retention, blurred vision
 - Examples include: Dicyclomine, Hyoscyamine, Peppermint oil
- Limited evidence: low quality studies, single center, small n's
- Enteric coated peppermint oil (200 mg) appears to be more more effective than placebo
 - Delayed release peppermint oil available in the US

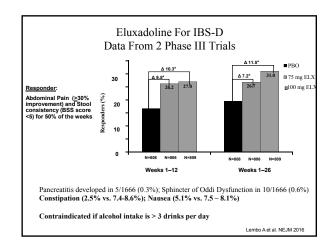
Alosetron, a 5-HT3 antagonist, Improves Global Symptoms in Women with Severe IBS-D Safety Profile of Alosetron Black-box warning: serious GI effects Ischemic olitis • 2 per 1000 pts over 3 months 3 per 1000 pts over 6 months • Alosetron (1 mg bid) = 29% • Placebo = 6% Prescribing Program • 0.5 mg BID, increase 1 mg BID if 0.5mg qd N=177 1mg qd N=175 *P<0.02 vs i Assessment at 12 weeks GIS = Global Improvement Alosetron [package insert]; 2016 Krause R et al. Am J Gastroenterol 2007; 102:1709











for IBS-D			
	Recommendation	Quality	Comments
Diets	Weak	Very low	Likely to relate to only some pts
Prebiotics	Insufficient Evidence		
Probiotics	Weak	Very low	Likely only some pts will respond
Rifaximin	Weak	Moderate	Cost
Antispasmodics	Weak	Low	Likely to be effective only short-term
Loperamide	Strong	Very low	Improves bowel function with limited effects on pain
Antidepressants	Weak	High	Associate with AE with a NNH of 9
Alosetron	Weak	Moderate	Ischemic colitis, restricted to women
			Ford et al., AJG, 2014

