State of the Art Therapeutic Treatments for IBS Patients

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Understanding the Role of the Gastroenterologist, Dietitian, and GI Psychologist

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Disclosures

William Chey, MD Research Support: Biomerica, Ironwood, Commonwealth Diagnostics, QOL Medical, Salix Pharmaceuticals, Urovant, Takeda, Zespri Consultant: Allergan, Biomerica, IM Health, Ironwood, QOL Medical, Salix/Valent, Phathom, Redhill, Ritter

Kate Scarlata, MPH, RDN

Equity: Fody food co., Epicured Honoranum/Consultant: AZ Milk Company, Enjoy Life Foods, Green Valley Creamery, Monash University, Salky pharmaceuticals Published books and online low FODMAP educational handouts

Megan Riehl, PsyD

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Exclusion Diets for IBS

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IBS: Rome IV Criteria

Recurrent abdominal pain at least 1 day per week associated with two or more of the following:

- Related to defecation
- Onset associated with a change in the frequency of stool
- Onset associated with a change in the form of stool

*Criteria fulfilled for the last 3 months with symptom onset at least 6 months prior to diagnosis

Mearin et al. Gastroenterology. May 2016

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Dietary Interventions for IBS: *What's the Evidence?*

- Gluten-free
- Elimination diets
- Low-FODMAP



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| Variable | 2009-2010 Prevalence, % (95%CI) (n=7798) | 2011-2012 Prevalence, % (95%CI) (n=6903) | P Value | 2013-2014 Prevalence, % (95%CI) (n=7577) | P Value |
|--|---|---|----------------|---|---------|
| | | Celiac Dise | ase | | |
| Patients with Celiac Disease (106 of 22278 [0.69%] 95% CI, 0.53% - 0.84%) | 0.70 (0.58 to 0.83) | 0.77 (0.41 to 1.13) | .72 | 0.58 (0.30 to 0.86) | .49 |
| | People V | Vithout Celiac Dise | ase Avoiding G | luten | |
| Patients Without Celiac Disease Avoiding Gluten (213 of 22277 [1.08%]; 95% CI, 0.80% - 1.35%) | 0.52 (0.24 to 0.80) | 0.99 (0.63 to 1.35) | .06 | 1.69 (1.10 to 2.31) | .001 |

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| | Self-reported wheat sensitivity % (95% CI) | No self-reported wheat sensitivity % (95% CI) | 3542 r Austra | andoml lians fill | y selecte ed out a | d mail |
|---|--|---|--|----------------------|-----------------------|-----------------|
| Abdominal pain relieved by bowel motion | 54.3 (49.7-59.0) | 34.8 (32.9-36.7) | survey 14.9% had self reported whe sensitivity 1.2% had celiac disease | | | |
| Bloating | 36.9 (32.5-41.5) | 8.3 (7.3-9.5) | | | | |
| Abdominal distention | 30.7 (26.5-35.1) | 8.2 (7.2-9.3) | | | | |
| Abdominal pain with loose bowel motions | 29.7 (25.5–34.1) | 16.6 (15.1–18.1) | | | | |
| Abdominal pain | 26.9 (22.9-31.2) | 7.5 (6.5-8.5) | Martable | 00000 | No. 6 5910 (0/) | 0.444 |
| Abdominal pain with more bowel motions | 26.2 (22.2-30.5) | 13.7 (12.3–15.1) | variable | SKW5 (%) | NO SKWS (%) | (95% CI) |
| Loose or watery bowel motions | 22.6 (18.8-26.7) | 9.0 (8.0-10.2) | IBS | 35.1 | 8.9 | 3.55 (2.71-4.65 |
| Post prandial fullness | 22.5 (18.7-26.5) | 6.0 (5.1-6.9) | Female gender | 75.0 | 49.3 | 2.46 (1.95-3.11 |
| Straining with bowel motion | 19.0 (15.5-22.8) | 9.0 (7.9-10.1) | Food allergy | 12.1 | 5.2 | 1.84 (1.28-2.64 |
| Hard or lumpy stool | 16.8 (13.5–20.5) | 8.9 (7.8–10.0) | FD | 31.3 | 13.6 | 1 48 (1 13-1 94 |
| Greater than three bowel mo- tions per day | 16.2 (13.0–19.9) | 6.6 (5.6–7.6) | Age (years) | 51.4 years | 58.1 years | 0.98 (0.98-0.99 |

| iable | SRWS (%) | No SRWS (%) | Odds ratio (95% CI) |
|-------------|------------|-------------|------------------------|
| | 35.1 | 8.9 | 3.55 (2.71-4.65) |
| nale gender | 75.0 | 49.3 | 2.46 (1.95-3.11) |
| d allergy | 12.1 | 5.2 | 1.84 (1.28-2.64) |
| | 31.3 | 13.6 | 1.48 (1.13-1.94) |
| e (vears) | 51.4 years | 58.1 years | 0.98 (0.98-0.99) |



Gluten Free Diet for IBS: *Meta-Analysis*

- Two RCTs of a GFD, involving 111 participants
- Patients who responded to a GFD randomized to continue GFD or receive diet with gluten
- Conclusion: There is currently insufficient evidence to recommend a GFD for IBS symptoms

| | GFI | D | Con | trol | | Risk ratio | | | Risk r | atio | |
|-----------------------------------|------------|---------|-----------|---------|-------------|---------------------|------|------------|--------|------------|------|
| Study or subgroup | Events | Total | Events | Total | Weight | M-H, random, 95% Cl | | M-H, n | andor | n, 95% Cl | |
| Biesiekierski 2011 | 10 | 19 | 14 | 20 | 52.2% | 0.75 (0.45, 1.26) | | | | r | |
| Shahbazkhani 2015 | 6 | 37 | 26 | 35 | 47.8% | 0.22 (0.10. 0.47) | | -8- | - | | |
| Total (95% CI) | | 56 | | 55 | 100.0% | 0.42 (0.11, 1.55) | | | | | |
| Total events | 16 | | 40 | | | | | | | | |
| Heterogeneity: Tau ² = | 0.79; Chi2 | = 8.28, | df = 1 (P | = 0.004 |); /2 = 88% | | - | - | -+ | | |
| Test for overall effect: | Z= 1.30 (A | = 0.19 |) | | | | 0.01 | 0.1 | 1 | 10 | 100 |
| | | | | | | | 11 | -avors GFI | 1 | Favors con | trol |
| et al. Am 1 Gastroe | enterol 2 | 018. 0 | nline ea | riv. | | | | | | | |







































Low FODMAP Diet & Nutrient Intake: The Impact Nutrient data from RCT comparing LFD vs. mNICE diet in 78 US IBS-D pts

- At baseline, majority in both groups failed to meet DRI for vitamins C, D, E, Ca, Mg, & K, and LFD group also did not meet DRI for folate. Both groups experienced a reduction in number of meals and total calorie intake
- . LFD group experienced a reduction in intake of total carbs & FODMAPs
- Energy-adjusted micronutrient intake for the LFD:
- decrease in intake of riboflavin (P<0.05)
 energy-adjusted intake of vitamins A, C, E, K, niacin, B-6, Cu, & Mg increased
- significant increases in niacin (P<0.05) & vitamin B-6 (P<0.01)
 fewer LFD pts met DRI for thiamine (88% v 49%, P<0.001) & iron (73% v 51%, P<0.04)

- No significant changes in macro or micronutrient intake in the mNICE group <u>Botton Line:</u> Most IBS pt's diets are deficient in micronutrients most micronutrients are stable or increase after the LFD odayś Dietitian aran et al. JAND 2019 IG SYMPO 2020















Sucrase-Isomaltase (SI) Deficiency: *Is Sucrose an Unrecognized FODMAP?*

- Congenital SID
- Genetic SID
- Acquired/Secondary SI Deficiency

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Practical Applications of Diet Strategies for Food Intolerance in IBS

Kate Scarlata, MPH, RDN Twitter: @katescarlata_RD Instagram: @katescarlata



kate scarlata rdn fodmap + ibs expert FOR A DIGESTIVE PEACE OF MIND







Potential Contraindication of FULL LFD and "FODMAP Gentle" Approach

| | Potential negative impact of elimination diet | More flexible approach, "FODMAP Gentle or alternative therapy |
|--|--|---|
| Active eating disorder/ARFID | Further decline nutrition/ psychological health | Supportive nutrition; liberalize diet, eating disorder specialist |
| Malnutrition | Nutritional status | FODMAP gentle |
| Unwillingness to change diet | Non adherence | Alternative IBS therapies or FODMAP gentle |
| Poor capacity to follow diet (does not prepare own food/ food insecurity) | Non adherence | FODMAP gentle or no therapy |
| Children | Food fears, development of good eating habits | FODMAP gentle |
| Other dietary restrictions in place Adapted from Halmos E, Gibson P | Nutritional status | FODMAP gentle |
| Controversies and reality of the FODMAP diet for patients with irritable bowel syndrome JGH March 2019 | | |

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| F G Th | Flexible Approach to LFD: "FODMAP Gentle" The highest FODMAP foods in the patient's diet are minimized | | | | | |
|--------------------------------------|---|--|--|--|--|--|
| | Food group | Restrict only | | | | |
| | Grains | Wheat and Rye | | | | |
| | Vegetables | Onion, leek, garlic, cauliflower, most mushrooms | | | | |
| | Fruit | Apple, pear, watermelon, larger quantities dried fruit | | | | |
| | Dairy | Milk and traditional yogurt | | | | |
| | Legumes | Beans not allowed on elimination LFD | | | | |
| Adapte Contro for pat March | Selection of foods to modify is best assessed via 24-hour intake and food frequency for individualized approach | | | | | |

















Finding Suitable Substitutions

| Meals/snacks—high FODMAP | Meal substit |
|---|--|
| Bran cereal with milk and raisins | Corn flakes wit |
| Wheat toast with almond butter and apricot jam | Slow leavened peanut butter |
| Salad with onion, tomatoes, cucumber, carrots and ranch dressing, topped with tuna. | Salad with scal carrots, Fody M with tuna. |
| Yogurt and granola (with added chicory root) | Lactose free yo root |
| Italian sausage with onion and peppers in bun | Suitable onion pepper sautée |
| Bowl of pistachio ice cream | Bowl of vanilla |
| Lara bar (dates, apples) | Fody bars: Dar Coconut, Blueb Chocolate Quin |
| | |

Corn flakes with lactose free milk + strawberries Slow leavened wheat toast (Iggy's Francese) with peanut butter and strawberry (chia) jam Salad with scallion greens, tomatoes, cucumber, carrots, Fody Maple Dijon Salad Dressing, topped with tuna. Lactose free yogurt and granola without chicory root

Suitable onion and garlic free sausage, tri-color pepper sautéed in Fody Shallot Oil in suitable bun Bowl of vanilla lactose free ice cream

Fody bars: Dark Chocolate Nuts & Sea Salt, Almond Coconut, Blueberry Almond, Peanut Butter Chocolate Quinoa

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The Reintroduction Phase: *Basic Guidelines*

- Test one FODMAP group (lactose, excess fructose, etc.) at a time and choose foods that contain only one FODMAP
- Consume a food amount that represents a normal intake (not excessive amounts)
- Continue to restrict all FODMAPs (maintain a low FODMAP diet) except
 the food that is being tested until tolerance or intolerance is confirmed
- Record symptoms experienced for each challenge

Use the same food for each of the 3 challenge days

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| What is a Failed Challenge? | | | | | | |
|-----------------------------|--|--|--|--|--|--|
| | A failed challenge should be a noticeable and significant change in symptoms | | | | | |
| Å | Symptoms may resemble an IBS flare: diarrhea, cramping, return of constipation, bloating | | | | | |
| × | = Undesirable outcome | | | | | |
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Non-Responder Assess symptoms:

- Bloating and post prandial fullness: r/o SIBO, gastroparesis
- Constipation: assess for slow transit constipation and/or dyssynergic defecation, high colonic stool burden, methane + SIBO
- Diarrhea: parasitic infection, bile acid malabsorption, SIBO
- Other food intolerance/sensitivities: gluten, fat, sucrose, food chemicals-histamine, milk protein (A1 vs A2)
- Consider probiotics, gut-directed hypnotherapy + other gut-brain directed therapies
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Histamine Intolerance Histamine: chemical released from our immune cells, in foods, created by gut microbes from amino acid

- Histamine intolerance results from a disequilibrium of accumulated histamine and the capacity for histamine degradation
- In healthy persons, dietary histamine can be rapidly detoxified by diamine oxidase (DAO), whereas persons with low amine oxidase activity are at risk of histamine toxicity
- DAO is synthesized by mature apical enterocytes-located on upper intestinal villi. Mucosal damage (gastroenteritis, SBS) may reduce DAO

| Maintz L, Novak J. Am J Clin Nutr. 2007;85(5):1185-1196;2. Enko D et al. Can J Gastroenterol Hepatol. 2016;Article IC 4893501. | #TDVirtualSymposium | TodaySDietitian SPRING SYMPOSIUM 2020 |
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SI in Kids Sx sucrose intolerance doesn't appear in infants until they start ingesting sucrose- and starch-containing foods (fruit juices, solid foods, common baby foods, milk-based formula) Breastfed infants may not show symptoms until a milk-based formula is introduced into their diet, or they begin eating solid foods Present w/ FTT, chronic abdominal pain, watery diarrhea Abdominal distention, gassiness, chronic colic, irritability, diaper rash, and vomiting can all be signs of pediatric sucrose intolerance

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SI in Adults

- Adult symptoms may be limited to increased frequency of loose stools, abdominal distention, and flatulence
- Some people are almost "used to it" expect diarrhea to be normal
- Episodic watery diarrhea may occur when ingesting foods containing high levels of sucrose
- Also, diarrhea may alternate with constipation, which can contribute to an IBS misdiagnosis
- Testing: sucrose breath test, genetic markers, biopsy for dissacharidase assay

https://www.sucroseintolerance.co m/symptoms/ #TDVirtual



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Food Intolerance: Recap • Often portion driven. Example: Lactose intolerance: many peop

- Often portion driven. Example: Lactose intolerance: many people can tolerate 4 grams + per serving of lactose; can use over the counter lactase enzymes to aid digestion. Fat intolerance does not necessitate a fat free diet!
- Histamine: stress management, reduce histamine in diet, mast cell stabilizers and anti-histamines to manage symptoms
- FODMAPs: reduce, re-challenge and personalize to least restrictive diet. Select correct candidate, utilize FODMAP gentle or alternative therapy as indicated.
- Sucrose isomaltase deficiency triggers bowel symptoms similar to IBS. 4 genetic variants associated with 3-4 fold reduction in the likelihood of response to LFD.¹
- Beta-casein: choose goat or sheep milk/cheese; trial A2 milk in dairy intolerant.

| varan 5. et al Is Sucrese the Sixth FODMAP subset of patients with Initiable Bowel informs with Diarrhea and sucrase maitase deficiency. DDW 2019, sentation 347. | #TDVirtualSymposium | TodaySDietitian SPRING SYMPOSIUM 2020 |
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Megan E. Riehl, PsyD Assistant Professor of Medicine Clinical Director, GI Behavioral Health Program Michigan Medicine Twitter & Instagram @DrRiehl







Who Do We Treat? Disorders of Gut-Brain Interaction (DGBI):

- No pathophysiology to identify the underlying cause of symptoms
- Medical workup = "normal;" "unremarkable;" "reassuring"
 - Irritable Bowel Syndrome (IBS)
 - Functional Dyspepsia
 - Functional Heartburn

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Who Do We Treat? Organic Disease Structural or chemical abnormalities • Inflammatory Bowel Disease (IBD)

- Crohn's Disease
- Ulcerative Colitis
- Gastroesophageal Reflux Disease (GERD)



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Brain ← → **Gut:** *A Bi*-*Directional Pathway* DGBI

- · Higher rates of depression and anxiety in patients with DGBI
- · GI-specific anxiety is a predictor of symptom severity and disability

IBD

- 6-fold increase in anxiety symptoms in those with normal anxiety but active IBD
- 2-fold increase in the risk of IBD flares in patients with anxiety, but with inactive disease at baseline odays Dietitian 2007;69:89-98; ol Notil 2017;23:349-362 rom Dr. Sarah Kinainser

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Mood Disorders in IBS: Prevalence Rate Patients with IBS have a three-fold increased odds of either anxiety or depression, compared to healthy subjects Anxiety • Symptoms = 39.1% • Disorders = 23% Depression • Symptoms = 28.8% • Disorders = 23.3% * Symptoms = 28.8% • Disorders = 23.3%



| Table 1 Emerging eating disorders relevant | vant to gastroenterologists |
|---|--|
| Orthorexia nervosa (4) | Obsessive focus on "healthy" eating marked by exaggerated emotional distress in relationship to food choic perceived as unhealthy". Weight loss may occur related to dietary choices, but this is not the primary goal a evidenced by the following: |
| | Computsive behavior and/or mental preoccupation regarding restrictive dietary practices believed to promote optimum health. |
| | Violation of self-imposed dietary rules causes exaggerated fear of disease, sense of personal impurity and/or negative physical sensations, along with anxiety and shame. |
| | Dietary restrictions escalate over time and may lead to elimination of entire food groups and involve progressively more frequent and/or severe "cleanses" (partial fasts) regarded as purifying or detoxifyin |
| Avoidant/restrictive food intake disorder (5) | A problem with eating or feeding (e.g., seeming disinterest in food or eating, repulsion to certain foods based their sensory qualities; fears about arrevine effects of eating? leading to recurrent inability to take in adequa nutrition and/or energy coupled with one (or move) of the following: |
| | 1. Major nutritional deficiency |
| | 2. Substantial weight loss |
| | 3. Reliance on NG or G tube feeding or oral nutritional supplements |
| | 4. Impaired psychosocial function |



| S | elf-Report Scr | eening I Nine Item A | | a Scr | SL een | I r ((NIA | 25 | 5 |
|---|--|---|----------------------|----------|----------------------|----------------------|-----------|-------------------|
| ; | Do you make yourself SICK (vomit) because you feel uncomfortably full? | 1.1 am a pickyeater | Strongly Disagree | Disagree | Slightly Disagree | Slightly Agree | Agree | Strongly Agree |
| 2 | Do you worry that you have lost CONTROL over how much you eat? | 2. I disilier most of the foods that other people eat | 0 | 0 | 0 | 0 | 0 | 0 |
|) | Have you recently lost more than ONE stone in a 3 month period? | shorter than the last of foods I won't eat 4. I am not very interested in eating I seem to have a smaller appetite than other people | 0 | 0 | 0 | 0 | 0 | 0 |
| | Do you believe yourself to be FAT when others | I have to push myself to eat regular meals throughout the day, or to eat a large enough amount of food at meals | 0 | 0 | 0 | 0 | 0 | 0 |
| Would you say that FOOD dominates your life? | Even when I am eating a tool i reary like, it is hard for me to eat a large enough volume at meals I used or not off pating because I am afraid | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | of Gidiscomfort, choking, or vomiting B. I restrict myself to certain foods because I am afraid that other foods will cause GI disconfect choking or vanishing | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.1 eart small portions because an anfraid of O O O O G1 disconfert, choicing, or vorniting | | | | | | | 0 | |
| Morgan et al. BMJ, 1999; 216/7223):1457-8. 216/3716 Ellis, Appette, 2015; 123:32-32: | | | | | | | | |

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Treatment Considerations

- Progressive restriction within an already restrictive diet
- Refusal to reintegrate foods during reintroduction protocol
- Discordance of clinical presentation of hx of clinical data
- Evidence of body dysmorphia
- Lack of concern with a severely restrictive diet or weight loss

Harer K. Gastroenterol Hepatol, 2019; 15(5):280-82.













Brain-Gut Psychotherapies

Meta-analyses conclude that psychological therapies reduce GI symptoms in adults with IBS. These effects remain significant after short-term and long-term follow-up periods:

- Based on >30 years of research and > 30 RCTs
- Cognitive Behavioral Therapy and Gut-Directed Hypnotherapy have the strongest empirical support
- 60-70% patients in clinical trials are treatment responders

| Ford et al AJG 2014; 109: 1350- | | TodaysDietitian |
|---|---------------------|------------------|
| 65 Laird et al Clin Gastroenterol Hepatol 2016; 14: 937-947 | #TDVirtualSymposium | SPRING SYMPOSIUM |

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Considerations for CBT

- Patient must be invested and participatory
- Untreated mental health disorders should be prioritized
- Change will not happen immediately
- Insight regarding the manner in which the patient's thoughts, feelings and behaviors impact their health is necessary

| Kinsinger S. Psychol Res Behav Manag 2017;10:231- 237. | #TDVirtualSymposium | |
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CBT for IBS First applied to IBS in 1992 ~20 RCTs across spectrum of DGBIs in pediatric and adult patient populations 40-65% of patients achieve significant symptom reduction Number Needed to Treat: 4-5





Gut-Directed Hypnotherapy

- Thorough explanation of medical hypnosis with patient
- This is not exploratory hypnosis
- Discuss limits of hypnosis
- Contraindicated for untreated trauma



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Effectiveness of Hypnotherapy RCTs demonstrate benefits from 3 months to 1 year post treatment 10 RCTs and over 30 studies since the 1980s >50% improvements for >70% of patients

- Continued improvements and durability
- Patient feels empowered and hopeful through home practice

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Miller V. et al., Aliment Pharm Ther. 2015;41(9):844-855. Palsson O. Am J Clin Hypn. 2015;58(2):134-158.

GDH v. LFD: Randomized Controlled Trial

- Hypnotherapy (n=25) → clinically-significant improvements in overall GI sxs = 72%
 6 months post treatment = 74%
- Diet (n=24) → clinically-significant improvements in overall GI sxs = 71%
 6 months post treatment = 82%
- Hyp + Diet (n=25) \rightarrow clinically-significant improvements in overall GI sxs = 73%
 - 6 months post treatment = 54%

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Peters S., et al, Aliment Phar Ther, 2016; 44(5):447-59. Hill P., Muir J. & Gibson P. Sastroenterni Henatol (N Y)



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Potential Mechanisms Evidence for central mechanisms

- Decreased somatization and general distress
- Improvements in cognition
- Changing beliefs about the significance of the symptoms
- Normalizes central processing of visceral sensations and signals
- Limited evidence for direct impact on GI physiology
 Reduction in autonomic nervous system activity
- Change in motility
- Improvement in visceral pain sensitivity

Palsson O, et al. Dig Dis Sci. 2002;47(11):2605-14.

"I don't think I am hypnotizable."

- Reduced attention to bowel symptoms
- Altered perception of your experience with symptoms
- Increase overall sense of health and comfort
- Immunity to intestinal disturbance from internal and external stimuli

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Normalization of bowel functioning

Reiscon O. 8. van Tilburg M. Am J Clin Hypn, 2015; 58(1):5-21. #TDVirtualSymposiu

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| Reduced Attention to Bowel Symptoms |
|---|
| "You pay less and less attention to unpleasant feelings inside you every day, as your sensitivity to bowel pain and discomfort steadily fades away and disappears." |
| Patson O & van Tiburg M. Am J Cin Hypn, 2015; 58(1):5-21. #TDVirtualSymposium |



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Summary

- GDH is an evidence-based intervention strongly supported for use in IBS
- With careful explanation of the intervention, patients are receptive and enjoy use
- Hypnotherapy should not be used until a patient has had a medical work up
- Patients respond well to virtual delivery of GDH
- Treatment typically 5-7 sessions

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In Conclusion

- Psychogastroenterology should be included early and often in the treatment of IBS
- Behavioral interventions are effective and well received by patients
- Allow the GI psychologist to determine the appropriate treatment plan for each patient
- A holistic approach to IBS can aid patients in learning adaptive health strategies for long term QOL improvements

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Case Study #1

- 45 yo female with intractable IBS-D for past 5 years
- Preliminary GI w/u normal includes: colonoscopy, lab + stool tests
- Labs/testing WNL, weight is stable but she has to force eating because she feels full.
- Sx: severe bloating, post-prandial fullness, abdominal pain, diarrhea, anxiety
- GI doctor does not "believe" in SIBO diagnosis but patient had read online about it and feels this makes sense
- Tx: Psyllium husk not helpful. Probiotic trial made her more bloated. Has removed most raw vegetables from diet with some improvement. Has heard of LFD but has not tried it yet. States: "You are my last-ditch effort"

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