

What are the most effective nonpharmacologic therapies for irritable bowel syndrome?

Evidence-based answer

Herbal formulations, certain probiotics, elimination diets based on immunoglobulin G (IgG) antibodies, cognitive behavioral therapy, and self-help books have been shown to decrease global symptoms of irritable bowel syndrome (IBS) and improve overall

quality of life (strength of recommendation [SOR]: **B**). For patients with severe refractory IBS, hypnosis has been shown to relieve symptoms (SOR: **B**). Soluble fiber is more effective than insoluble fiber at improving global IBS symptom ratings (SOR: **C**).

Clinical commentary

Be positive with your patients—it's potent therapy

What do you do for your patients when their bodies speak for them—for their difficult emotions, personal problems, or broken relationships? Expressing positive regard in a safe, dependable doctor-patient relationship is your most potent therapy. Once your patient knows you care for them—and

they are confident their diagnosis is troublesome but innocent—their symptoms may abate and spare them unnecessary workups. Encouraging them to address their intrapersonal or interpersonal issues through writing in a journal, meditative prayer, and relaxation breathing will help them take control of their symptoms.

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Evidence summary

Herbs and probiotics may help. A Cochrane review of herbal therapies evaluated 75 randomized controlled trials (RCTs), including 7957 patients; it concluded that some herbal preparations may reduce symptoms of IBS. However, more rigorous studies are needed: There was never more than 1 trial comparing a given herbal medicine with a specific control, making it difficult to combine trials in a meaningful way.¹

A multicenter RCT compared 2 herbal formulations with placebo.² The first contained extracts of bitter candy-

tuft, chamomile, peppermint, caraway, and licorice. The second, a commercial preparation called Iberogast, had the same ingredients as the first, as well as lemon balm, celandine, angelica, and milk thistle. The study demonstrated global IBS symptom reduction, with a relative risk [RR] of 1.68 (99% confidence interval [CI], 1.00–2.8) for Iberogast, and RR=1.90 (99% CI, 1.15–3.14) for the first formulation. Both formulations were well tolerated and more effective than placebo in the treatment of IBS, regardless of the dominant symptom.

One RCT compared the probiotic formula *Bifidobacterium infantis* 35624 with

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FAST TRACK

Encouraging patients to address personal issues through journal writing and breathing exercises will help them take control of their symptoms

FAST TRACK

80% of patients said hypnosis relieved IBS

Lactobacillus and placebo, and found that IBS symptom scores and quality of life measures were better with the *Bifidobacterium* preparation ($P<.05$).³

Soluble fiber or an elimination diet can reduce symptoms. A systematic review of 17 RCTs (9 of soluble fiber, 8 of insoluble) (N=1363) found soluble fiber more effective than placebo (pooled RR=1.55; 95% CI, 1.35–1.78) for reduction in global symptoms and constipation.⁴ Insoluble fiber was no better than placebo (pooled RR=0.89; 95% CI, 0.72–1.11). Abdominal pain was not reduced with either fiber.

An elimination diet, based on the presence of IgG antibodies to various foods, was compared with a sham diet in an RCT.⁵ Those who fully adhered to the diet reported symptom reduction, with a mean symptom score 98 points lower (95% CI, 52–144; NNT=2.5). (A 50-point drop was considered clinically significant.)

Therapy, self-help book, and hypnosis provide relief. A single-blinded study comparing cognitive behavioral therapy (CBT) with patient education alone found CBT more effective.⁶ The effect size was 0.50 (defined as moderate; 95% CI, 0.2–0.8). Analysis of response rates found that 73% responded to CBT vs 41.3% in the education group (NNT=3.2).

Another RCT tested the use of an educational self-help guidebook.⁷ Outcomes were symptom score, perception of improvement, and primary care consultation rates. At 1 year, the self-help guidebook group had 1.56 visits/year less than the control group (95% CI, 1.15–1.98), a 60% decrease. The self-help guidebook group reported a higher degree of perceived improvement, with a mean effect of 0.51 (95% CI, 0.23–0.79); there were no differences in severity scores.

Hypnosis has been evaluated in several studies. A systematic review found 6 studies with a control and 8 without, for a total of 644 patients. An average of 80% of the patients reported global IBS symptom relief. Patients with typical IBS responded to hypnosis; however, males with diarrhea-predominant symptoms,

and all subjects with atypical symptoms or comorbid psychopathology were less likely to respond.⁸

Recommendations from others

The American College of Gastroenterology⁹ recommends behavioral therapies (such as relaxation therapy, hypnotherapy, and psychotherapy) for the treatment of individual IBS symptoms. They also report that bulking agents such as insoluble fiber (eg, wheat bran) and soluble fiber (eg, psyllium) are no more effective than placebo at relieving global IBS symptoms.

The American Gastroenterological Association¹⁰ endorses multiple nonpharmacological treatments for IBS, including therapeutic physician-patient relationship, patient education, dietary and lifestyle modifications, symptom monitoring, and behavioral therapies. ■

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