The Role of Diet in the Treatment of Irritable Bowel Syndrome: A Systematic Review



Rajdeep Singh, MD^a, Ahmed Salem, MD^b, Julie Nanavati, MLS, MA^c, Gerard E. Mullin, MD^d,*

KEYWORDS

- Nutrition Diet Irritable bowel syndrome FODMAPs Gluten Food sensitivities
- Fiber Elimination diets

KEY POINTS

- Irritable bowel syndrome (IBS) is characterized by recurrent abdominal pain and altered stool frequency and form, which is diagnosed according to the updated Rome IV criteria.
- Food may induce symptoms that have a range of effects in the human body, including increases in luminal osmolarity, induction of gut motility, intestinal spasms immune activation, and other poorly understood processes.
- Elimination diets are helpful in improving IBS symptoms; however, it is impossible predict which subset(s) of patients will benefit from specific restriction regimens.
- A group of foods that include fructooligosaccharides, oligosaccharides, disaccharides, monosaccharides, and polyols (FODMAPs) represents a range of foods may provoke IBS.
- Restricting FODMAPS from the diet is associated with improved IBS symptoms and quality of life.

INTRODUCTION

Irritable bowel syndrome (IBS) is characterized by abdominal discomfort and alterations in bowel habits, including diarrhea (diarrhea-predominant IBS [IBS-D]), chronic constipation (constipation-predominant IBS), or a combination of both (IBS-mixed). A diverse range of digestive tract symptoms is associated with IBS, including constipation, diarrhea, pain, and/or discomfort, distension, and flatulence.

Disclosure: The authors have nothing to disclose.

E-mail address: gmullin1@jhmi.edu

Gastroenterol Clin N Am 47 (2018) 107–137 https://doi.org/10.1016/j.gtc.2017.10.003 0889-8553/18/© 2017 Elsevier Inc. All rights reserved.

^a Department of Internal Medicine, Sinai Hospital of Baltimore, 2421 Cylburn Avenue, Baltimore, MD 21215, USA; ^b Gastroenterology Department, University of Rochester Medical Center, 101 Portsmouth Terrace, Rochester, NY 14642, USA; ^c The Johns Hopkins University School of Medicine, Welch Medical Library, 2024 East Monument Street, Baltimore, MD 21287, USA; ^d Division of Gastroenterology and Hepatology, Johns Hopkins University School of Medicine, 600 North Wolfe Street CARN 464B, Baltimore, MD 21287, USA

^{*} Corresponding author.

There are 4 disease subtypes of disease in equal proportions: diarrhea, constipation, mixed, and undefined. People with IBS may also experience bloating, intense abdominal pain, and a myriad of other intestinal and extraintestinal comorbidities (ie, anxiety, depression, fibromyalgia, chronic pelvic pain, chronic fatigue syndrome, temporomandibular joint dysfunction; Fig. 1). 2,3

In the past, IBS was a diagnosis of exclusion, unless red flag symptoms were present, thereby indicating that another condition was present, such as celiac disease; others may have overlapping symptoms. The use of the Rome criteria has shifted

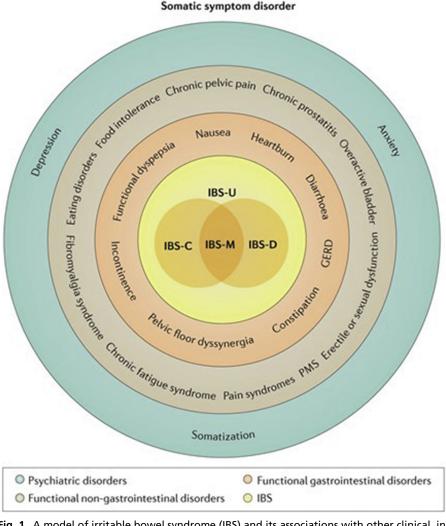


Fig. 1. A model of irritable bowel syndrome (IBS) and its associations with other clinical, intestinal, extraintestinal and psychiatric conditions. GERD, gastroesophageal reflux disease; IBS-C, IBS with constipation; IBS-D, IBS with diarrhea; IBS-M, mixed-type IBS; IBS-U, unsubtyped IBS; PMS, premenstrual syndrome. (*From* Enck P, Aziz Q, Barbara G, et al. Irritable bowel syndrome. Nat Rev Dis Primers 2016;2. https://doi.org/10.1038/nrdp.2016.14; with permission.)

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