

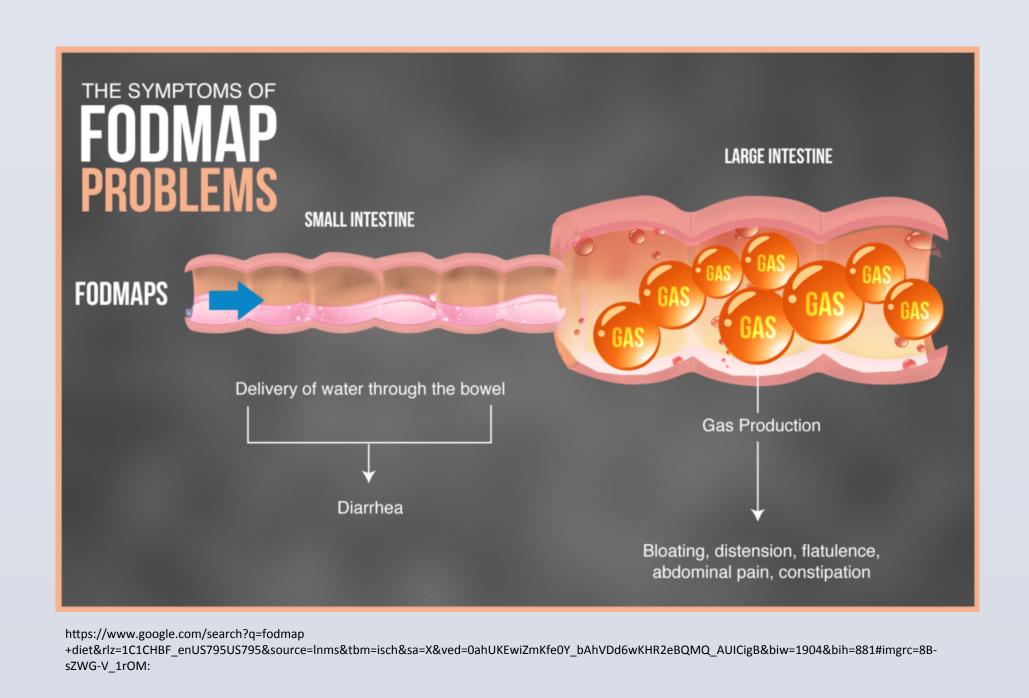
Can Low-FODMAP Diet Improve Quality of Life for Patients with IBS: An Integrative Research Review



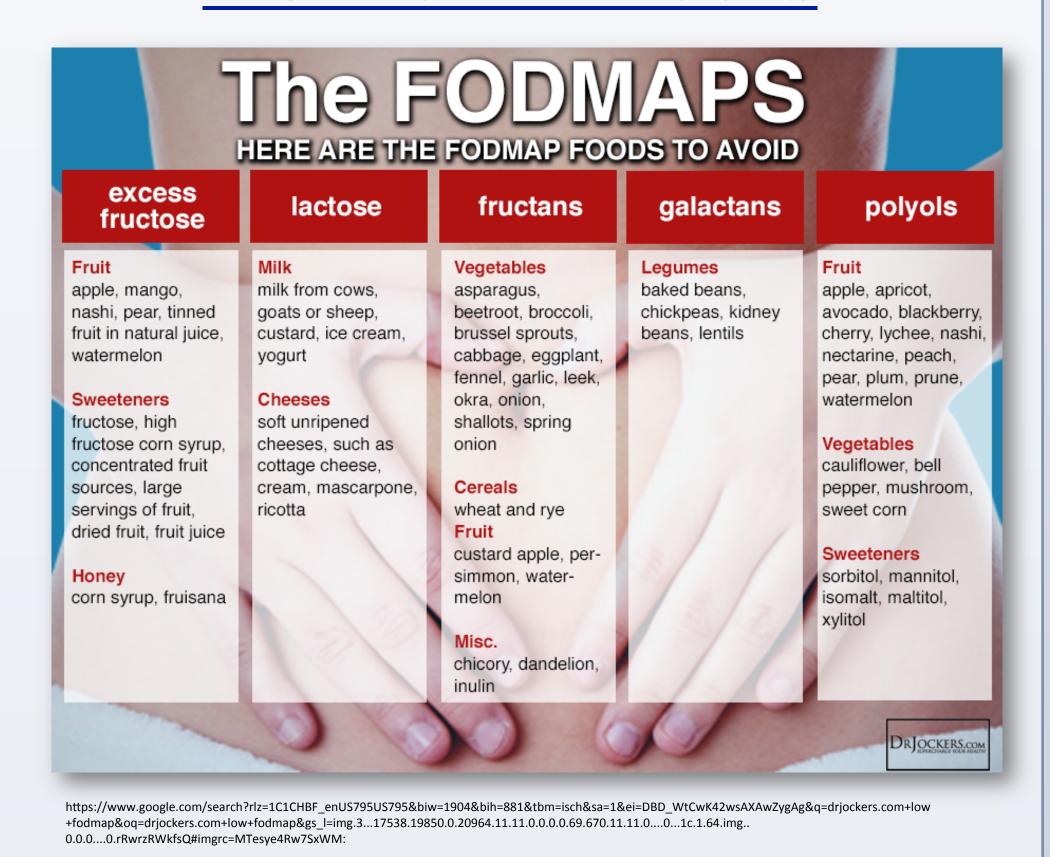
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BACKGROUND & SIGNIFICANCE

- ➤ IBS is a functional GI disorder characterized by bloating, excessive gas, abdominal pain and altered bowel function (Ireton-Jones, 2017)
- ➤ IBS symptoms may lead to quality of life (QOL) impairment, increased financial burden due to missed days of work/treatments & social isolation (Varju, et al., 2017)
- ➤ In 2000, the US spent over 1.7 billion dollars on management of IBS symptoms (Staudacher et al., 2014)
- ➤ IBS is common, occurring in approximately 10% -20% of the population affecting predominately females (Maggard, et al., 2016)
- ➤ Treatment is symptom driven, 60-80% of patients seek dietary management (Staudacher H. M., 2017) (Wong, 2016)
- FODMAP (fermentable oligosaccharide, disaccharide, monosaccharide and polyol) are short-chain carbohydrates that are poorly absorbed in the small intestine leading to fermentation in the colon (Khan et al., 2015)
- Fermentation of FODMAP may cause abdominal pain, flatulence, diarrhea and altered intestinal motility & water volume (Staudacher, Irving, Lomer, & Whelan, 2014)
- Treatment guidelines: antidiarrheal, laxative, fiber supplement and high fiber diet, antispasmodic, low dose antidepressants (Wong, 2016)



HIGH FODMAP FOODS

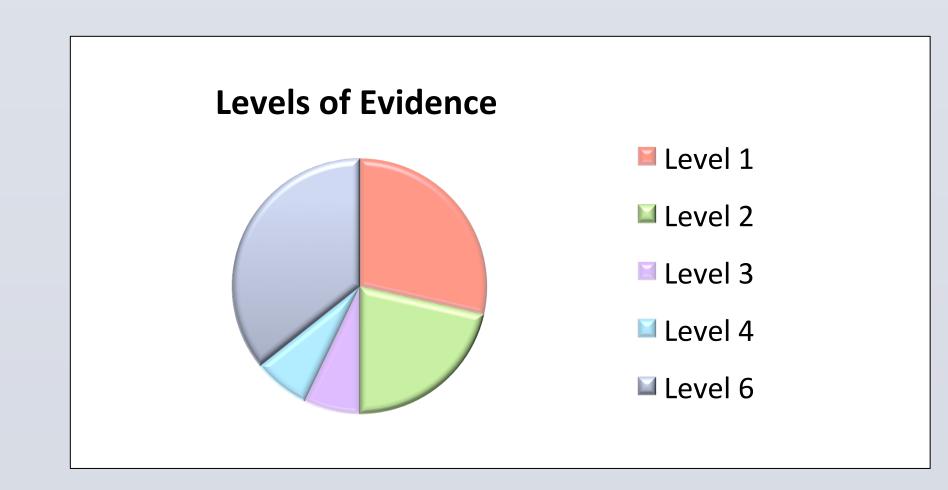


RESEARCH QUESTION

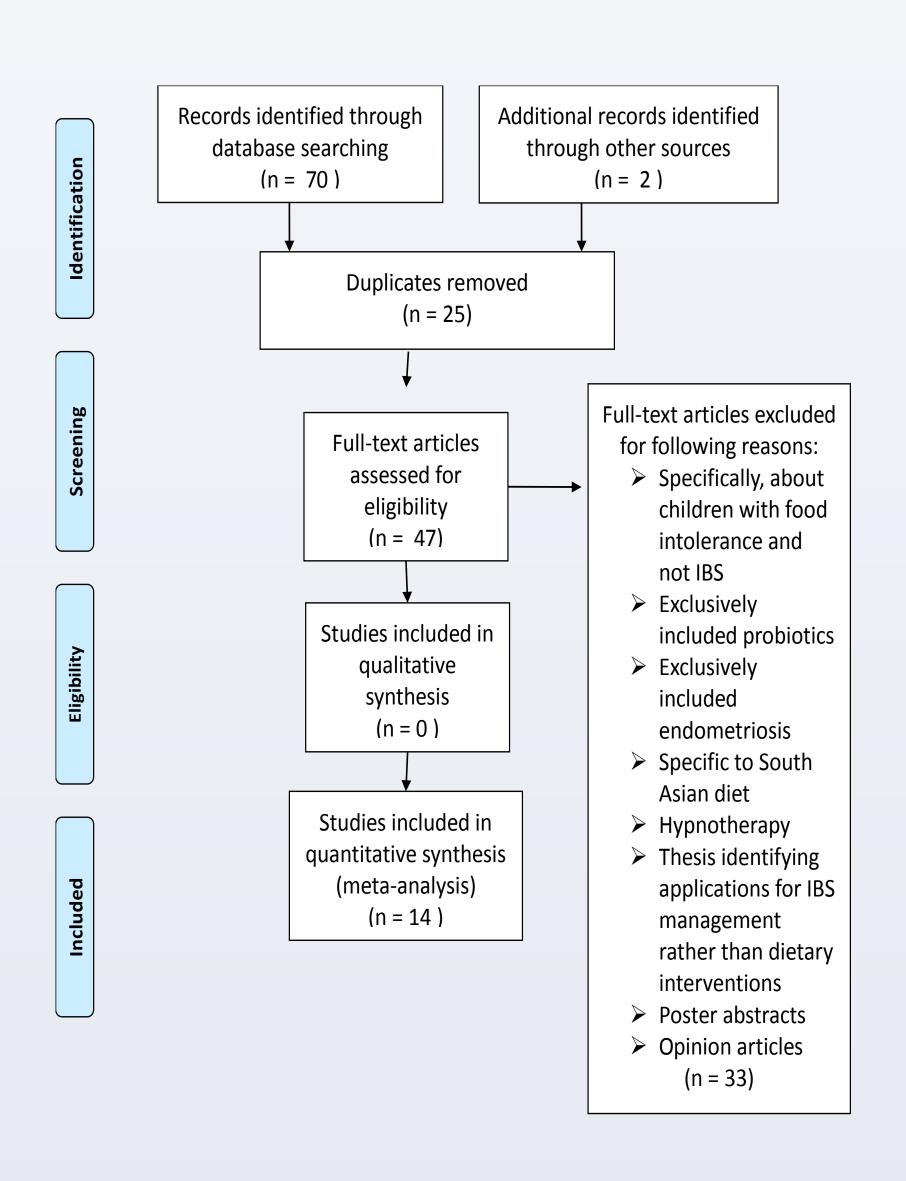
The purpose of this IRR is to determine if a Low-FODMAP Diet Improves Quality of Life for Patients with IBS.

METHODOLOGY

- Literature search of the following databases:
 CINHAL, Cochrane, PubMed, Medline, Health
 Source: Nursing/Academic Edition from
 2013-2018
- Search terms used: "IBS," "irritable bowel syndrome," Low-FODMAP diet," and "quality of life"
- Two articles were mined from the references of selected articles
- Articles were appraised by utilizing the PRISMA 2009 checklist within the ERB Tool (Long & Gannaway, 2015) and Appendix G in Brown (2018)
- > Seventy articles initially identified, fourteen included in review



LITERATURE SEARCH FLOW DIAGRAM



LITERATURE SYNTHESIS

- ➤ Evidence supports low-FODMAP diet improves IBS related bloating symptoms. Patient awareness and education empower patients to foster self-efficacy of symptom control (Wong 2016)
- Meta-analysis suggested low-FODMAP diet improves IBS symptoms and QOL. There were concerns about nutritional status in those not using dietitian assistance (Varju et al., 2017)
- ➤ A systemic review & meta-analysis suggested significant IBS-QOL scores post-low FODMAP dietary intervention (Marsh et al., 2015)
- In study of 90 patients experiencing IBS symptoms, 71% saw symptom improvement with a low-FODMAP diet (Ireton-Jones, 2017)
- Studies show FODMAP diet increases small bowel water secretion along with colonic gas production & volume therefore increasing colonic microbiota fermentation from available FODMAP (Staudacher H. M., 2017)

LITERATURE SYNTHESIS CONT.

- ➤ 68% reported symptom improvement after dietary interventions compared with 28% of control group (Staudacher et al., 2014)
- Retrospective cross-sectional study on long-term follow-up reported improved QOL & normal stool type after dietary interventions (Maggard et al., 2016)
- A randomized controlled trial showed little difference between low-FODMAP and traditional IBS diets. Future studies should focus on strategies for providing dietary advise (Bohn, et al., 2015)
- More research is needed on dietary long-term effects & efficacy/cost compared to current IBS management strategies (Khan et. al., 2015)

CLINICAL IMPLICATIONS

Implementing dietary advise in clinical settings may help empower patients to improve symptoms & QOL. Improved symptoms may also decrease office and hospital visits



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CONCLUSION

➤ Overall, this IRR suggests that implementing a low-FODMAP diet may improve IBS symptoms thus improving patient QOL. Although low-FODMAP diet decreases symptoms of IBS, a paucity of research regarding nutritional effects, management strategies, cost implications and dietary education exists.

REFERENCES

Available upon request. Mleiker 3069 @lcu.edu