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Patients with functional bowel disorder have disaccharidase deficiency.

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Background: Functional bowel disorder (FBD) may be caused by a decrease in disaccharidase activity. Thus, the timely diagnosis of disaccharidase deficiency could lead to a better prognosis in patients with this condition. At present, few studies have been conducted on intestinal disaccharidase activity. Most of these studies have been on lactase activity in both adults and children [10-12] and sucrose activity in children [13]. Maltase and glucoamylase activities have not been studied in adults. Therefore, the aim of this study was to determine the value of intestinal disaccharidases glucoamylase, maltase, sucrose, and lactase in understanding the etiology and pathogenesis of FBDs.

Aim: To determine the potential value of intestinal disaccharidases glucoamylase, maltase, sucrose, and lactase in understanding the etiology and pathogenesis of FBD.

Methods: A total of 82 FBD patients were examined. According to the Rome IV criteria (2016), 23 patients had diarrhea-predominant irritable bowel syndrome (IBS), 33 had functional diarrhea, 10 had constipation-predominant IBS, 4 had functional constipation, and 12 had mixed IBS. The Dahlqvist method was used to measure disaccharidase activity in the brush-border membrane of mature enterocytes of the small intestine, in duodenal biopsies obtained during esophagogastroduodenoscopy.

Results: Lactase deficiency was detected in 86.5% of patients, maltase deficiency in 48.7%, sucrose deficiency in 50%, and glucoamylase deficiency in 84.1%. The activities of all enzymes were reduced in 31.7% of patients with FBD. The low activity of enzymes involved in membrane digestion in the small intestine was found in 95.1% (78) of patients.

Conclusion: In 78 of the 82 patients with FBD, gastrointestinal symptoms were associated with disaccharidase deficiency

Biography

Saria Dbar was born in Abkhazia in 1990. In 2014 she graduated the medical University in Russia. After graduation she successfully completed her medical internship in gastroenterology at the Institute of Gastroenterology in Russia. During her study, she showed great scientific interest in the field of diseases of the small intestine. She is working on her PhD dissertation at the moment. For the last 7 years she has been studying disaccharidases activity of small bowel in patients with celiac disease, ulcerative colitis, Crohn`s disease and functional bowel disorder. She has an extended experience in participation in a significant number of international and local scientific conferences. She is an annual speaker at the Russian Gastroenterological conference. She developed and presented scientific data at European Gastroenterology Week in 2019. Altogether, Saria is an author of 9 scientific articles and a participant of for more than 20 conferences.

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