

Reviewer #1:

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors: The title reflects the main subject of the manuscript. The abstract summarizes and reflects the work described in the manuscript. The key words reflect the focus of the manuscript. The manuscript describes methods, experiments and data analysis in adequate detail. The manuscript interprets the findings adequately and appropriately, highlighting the key points concisely, clearly and logically. The table has a good quality. The manuscript meets the requirements of use of SI units. The manuscript cites appropriately the latest, important and authoritative references. The manuscript is well organized and presented. The style, language and grammar are accurate and appropriate. The manuscript met the requirements of ethics. It is known that celiac disease develops due to a genetic predisposition and consumption of foods containing gluten. However, not all genetically predisposed people develop celiac disease, and in some cases the first clinical symptoms appear in adulthood and old age after many years of gluten consumption. This suggests that other factors may play an important role in the loss of gluten tolerance. There are studies showing that microbial dysbiosis is one of the important factors contributing to the loss of gluten tolerance and thus playing a role in the pathogenesis of celiac disease. The manuscript presents its own data based on the analysis of the abundance and diversity of bacteria, viruses and fungi in the children's population of Saudi Arabia. The results of this study are one of the first reports of a possible role for altered fecal and colonic mucosal microbiota in the pathogenesis of celiac disease. There are some minor comments to be made though: in the "Materials and Methods" section, the source of obtaining tissue samples collected during diagnostic endoscopy in the control group (19 people) is not indicated. There are limitations of the study, which the authors point out: a relatively small sample size and a not

very well-selected control group. In general, the article is of undoubted interest and allows us to expand our understanding of the pathogenesis of celiac disease.

Response: Done and highlighted in yellow in the revised manuscript and highlighted in yellow. The samples from controls were taken from the second part of the duodenum.

Reviewer #2:

Scientific Quality: Grade A (Excellent)

Language Quality: Grade A (Priority publishing)

Conclusion: Accept (High priority)

Specific Comments to Authors: This manuscript addressed an exciting topic. The statistical analyses were perfect and praiseworthy. Thank you for choosing this concept. This content will be beneficial for pediatric gastroenterologists and other practitioners.

Response: Thank you for your encouragement.

(1) Science editor:

The manuscript has been peer-reviewed, and it's ready for the first decision.

Language Quality: Grade B (*Minor language polishing*)

Scientific Quality: Grade B (Very good)

Response: done

(2) Company editor-in-chief:

I have reviewed the Peer-Review Report, the full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the World Journal of Gastroenterology, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors. Please provide decomposable Figures (in

which all components are movable and editable), organize them into a single PowerPoint file. Please authors are required to provide standard three-line tables, that is, only the top line, bottom line, and column line are displayed, while other table lines are hidden. The contents of each cell in the table should conform to the editing specifications, and the lines of each row or column of the table should be aligned. Do not use carriage returns or spaces to replace lines or vertical lines and do not segment cell content. Please check and confirm whether the figures are original (i.e. generated de novo by the author(s) for this paper). If the picture is 'original', the author needs to add the following copyright information to the bottom right-hand side of the picture in PowerPoint (PPT): Copyright ©The Author(s) 2022. Before final acceptance, when revising the manuscript, the author must supplement and improve the highlights of the latest cutting-edge research results, thereby further improving the content of the manuscript. To this end, authors are advised to apply a new tool, the Reference Citation Analysis (RCA). RCA is an artificial intelligence technology-based open multidisciplinary citation analysis database. In it, upon obtaining search results from the keywords entered by the author, "Impact Index Per Article" under "Ranked by" should be selected to find the latest highlight articles, which can then be used to further improve an article under preparation/peer-review/revision. Please visit our RCA database for more information at: <https://www.referencecitationanalysis.com/>.

Response: done