December 23, 2023

Dear Editorial Board Members of World Journal of Gastroenterology

We are sincerely grateful for your thorough consideration and review of our manuscript, Re cent Trends in the Epidemiology and Clinical Outcomes of Inflammatory Bowel Disease in S outh Korea, 2010–2018" (Manuscript NO.: 89751, Observational Study). We understand bett er the critical issues of this paper through the insightful comments of the Reviewers. We d id our best to achieve the level of science that is required by the Reviewers; we have revi sed the manuscript according to the Reviewer's suggestions. We hope that our revised ma nuscript will be considered and accepted for publication in *World Journal of Gastroenterolo gy*. We acknowledge that the scientific and clinical quality of our manuscript has been imp roved by the diligent efforts of the Reviewers and Editors.

The changes within the revised manuscript are highlighted in yellow color, and point-by-point responses to the Reviewers' comments are provided below.

Reviewer #1:

1) Specific Comments to Authors: 1. This study provides the latest trends in the epidemiol ogy and clinical outcomes of inflammatory bowel disease (IBD) in South Korea, which is im portant for understanding the development of IBD in specific regions of Northeast Asia. Giv en that the incidence and prevalence of IBD is on the rise in Asian countries, this study c ontributes to a better understanding and response to this trend by public health policy ma kers and medical professionals worldwide. 2. The results of the study showed that the incidence of UC (ulcerative colitis) has continued to increase in Korea, while the incidence of CD (Crohn's disease) has stabilized since 2014. This finding may indicate differences in epid emiologic characteristics and potential risk factors for different IBD subtypes, which could b e instructive for future prevention and treatment strategies. 3. The study also observed an increase in the proportion of patients using immunomodulators and biologics over time, in parallel with a decrease in the proportion of hospitalizations and surgeries. This trend may

reflect changes in IBD treatment strategies and their impact on clinical outcomes, providin g valuable data for evaluating the long-term effects of new treatments. Also in this study, i t was observed that the peak age of onset of ulcerative colitis (UC) has shifted to a youn ger age group, i.e., from patients in their 50s to those in their 20s. The trend may be rel ated to dietary habits and lifestyle factors such as increased eating out, takeaway food, an d increased consumption of coffee and sugary drinks. It may also be related to the decline in natural green spaces and increased time spent in urban living and working environment s. With improvements in health care in recent decades, the rate of endoscopy among youn g people may have increased, thus improving the rate of early diagnosis of UC. **Author's response**: We are grateful to the Reviewer for these considerate comments. We c ompletely agree with the Reviewer's point.

2) Suggestions 1: For the definition and assessment of clinical outcomes, it is recommende d that a more objective and standardized approach be used, for example, through a detail ed review of medical records to identify IBD-related emergency room visits, hospitalizations, and surgical events.

Author's response: We agree with the Reviewer's point and appreciate the insightful comm ents. As the Reviewer suggested, reviewing medical records could provide a more accurate and objective assessment of clinical outcomes in IBD patients. Unfortunately, although we d evised operational definitions as described in the Methods section to assess IBD-related clin ical outcomes more objectively, we could not obtain individual patient identifying informatio n needed for medical record review since NHI provides only limited information related to claims. We specified this limitation in the discussion section as follows: "Finally, although w e carefully devised an operational definition of clinical outcomes to encompass IBD-related r esults, inherent uncertainty remained since the NHIS does not provide detailed clinical data o f individual patients or information on individual identifiers." (from page 15, lines 18-20)

3) Suggestions 2: For a better understanding of the treatment effects of IBD, it is recomm ended that indicators such as disease activity and quality of life, as well as long-term follo w-up data, be included in future studies to assess the impact of treatment strategies on p atients' long-term health.

Author's response: We appreciate the Reviewer's valuable comment and we completely agr

ee with it. We added the following information to the research perspectives section of the article highlights: "Future studies are required to evaluate the long-term prognosis of IBD according to changes in IBD treatment medications, including indicators such as disease acti vity and quality of life." (from page 17, lines 20-21)

Reviewer #2:

1) Specific Comments to Authors: excellent article. appears to be an overlap with previousl y published data, but has a larger window.

Author's response: We express our sincere gratitude for the Reviewer's comment on our manuscript.

We have tried our best to answer and address all the issues raised by the Reviewers and we believe the effort was worth it. We think that the comments of the Reviewers have greatly improved the quality of our manuscript. The authors are open to and welcome any additional suggestions that may improve the quality of our manuscript. Once more, we greatly appreciate your advice and decision. We thank you in advance for your generous consideration of our manuscript.

With best regards,

Joo Sung Kim, MD, PhD Department of Internal Medicine and Liver Research Institute, Seoul National University College of Medicine 101 Daehak-ro, Jongno-gu, Seoul, 03080, Korea E-mail: jooskim@snu.ac.kr