



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 56881

Title: Effect of periodontitis and smoking on ulcerative colitis: A nationwide cohort study

Reviewer's code: 05232520

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Professor, Research Scientist

Reviewer's Country/Territory: Brazil

Author's Country/Territory: South Korea

Manuscript submission date: 2020-05-18

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-06-08 13:24

Reviewer performed review: 2020-06-09 17:19

Review time: 1 Day and 3 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent [] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) <input checked="" type="checkbox"/> Minor revision [] Major revision [] Rejection
Re-review	<input checked="" type="checkbox"/> Yes [] No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous [] Onymous Conflicts-of-Interest: [] Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

The manuscript submitted by Kang and cols., aims to elucidate the impact of periodontitis and smoking on ulcerative colitis. The study is based on data from the National Health Insurance service in South Korea and enrolled a significant number of patients (almost 10 million participants). Inclusion or exclusion criteria were described in the text and the results support the conclusion. However, before a final decision is made, some aspects must be addressed. Major concerns:

- Authors must describe in Abstract the means and standard deviation of age and body mass index, as well as the number of individuals from each gender enrolled in the study
- In introduction, authors must also include the role of environmental factors on the development of IBD. This is of paramount importance as smoking and alcohol consumption are directly associated with higher risks to develop either IBD and periodontitis.
- Authors must describe if patients enrolled in the study were under immunomodulatory therapies (corticosteroids, antibiotics, immunobiologicals, etc) during or prior the period of the follow-up?
- In discussion, the information concerning a putative protective role of smoking on the risk of developing UC must be addressed more carefully using more recent data. This is a conflicting aspect and needs to be better discussed. Please see: The Impact of Smoking and Smoking Cessation on Disease Outcomes in Ulcerative Colitis: A Nationwide Population-Based Study *Aliment Pharmacol Ther.* 2019 Sep;50(5):556-567. doi: 10.1111/apt.15390. Epub 2019 Aug 6
- Smoking and Inflammatory Bowel Disease: A Comparison of China, India, and the USA. *Dig Dis Sci* 2018 Oct;63(10):2703-2713. doi: 10.1007/s10620-018-5142-0. Epub 2018 Jun 4.
- Dose-response Relationship Between Cigarette Smoking and Risk of Ulcerative Colitis: A Nationwide Population-Based Study. *J Gastroenterol.* 2019 Oct;54(10):881-890. doi: 10.1007/s00535-019-01589-3. Epub 2019 May 15.



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 56881

Title: Effect of periodontitis and smoking on ulcerative colitis: A nationwide cohort study

Reviewer's code: 03257023

Position: Peer Reviewer

Academic degree: MBBS, MD, MNAMS, PhD

Professional title: Director

Reviewer's Country/Territory: India

Author's Country/Territory: South Korea

Manuscript submission date: 2020-05-18

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-06-07 11:59

Reviewer performed review: 2020-06-19 03:58

Review time: 11 Days and 15 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent [] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) [] Minor revision [] Major revision [] Rejection
Re-review	[] Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous [] Onymous Conflicts-of-Interest: [] Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

This is a well-designed and well-written up study identifying the relationship between periodontitis and new onset IBD, especially new onset UC, based on national health records. The association that was noted was not very strong and the age-adjusted hazard ratio is only just above 1, indicating a weak effect that may not be reproducible if the study were to be replicated elsewhere. This should be acknowledged in the Discussion.



RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 56881

Title: Periodontitis combined with smoking increases risk of the ulcerative colitis: A national cohort study

Reviewer's code: 05232520

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Professor, Research Scientist

Reviewer's Country/Territory: Brazil

Author's Country/Territory: South Korea

Manuscript submission date: 2020-05-18

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2020-08-14 11:18

Reviewer performed review: 2020-08-14 11:35

Review time: 1 Hour

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent [] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	<input checked="" type="checkbox"/> Accept (High priority) [] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous [] Onymous Conflicts-of-Interest: [] Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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The authors have satisfactorily responded to all my questions and made the necessary changes to the manuscript