



PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 83437

Title: Spatial Cluster Mapping and Environmental Modeling in Pediatric Inflammatory Bowel Disease

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer’s code: 02520845

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor

Reviewer’s Country/Territory: Croatia

Author’s Country/Territory: Canada

Manuscript submission date: 2023-02-07

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-03-01 19:39

Reviewer performed review: 2023-03-10 09:31

Review time: 8 Days and 13 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

ESPS Manuscript NO: 83437 Title: Spatial Cluster Mapping and Environmental Modeling in Pediatric Inflammatory Bowel Disease General remarks This study has profound implications for the incidence of inflammatory bowel disease in children in relation to environmental determinants of the disease. The manuscript is well organized and the text is accompanied by appropriate figures. Special comments Title: it reflects the main themes and contents of the study. Abstract: It contains a clear statement of the research objective and results and reflects the scientific significance of the findings. Material and Methods: The study design, methods, and spatial cluster analysis to assess local patterns of PIBD incidence and the influence of environmental risk and protective factors are well described, particularly in terms of spatial patterning of PIBD. Results and Discussion: The data are clearly presented and the discussion is well organized. Results are described in detail, followed by figures and tables that reflect key findings. The discussion is well organized and systematically analyzes the results obtained. Figure: Reflects the main findings. References: The literature review lists recent research papers on this topic. In summary, this is a very interesting study that provides insight into the



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complexity of the inherent and environmental factors involved in the etiology and incidence of PIBD. In addition, the authors have introduced new methods to determine local spatial patterns and a model to determine the association between PIBD and risk factors, particularly ethnicity and environmental exposure.



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Reviewer's code: 05382317

Position: Peer Reviewer

Academic degree: FRCS (Hon), MD

Professional title: Doctor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: Canada

Manuscript submission date: 2023-02-07

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-03-09 14:56

Reviewer performed review: 2023-03-18 09:49

Review time: 8 Days and 18 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The study explored PIBD clusters and model how spatial patterns correlate with population ethnicity and environmental exposures. Further regional studies are warranted to confirm these results and to determine the relationship between exposure duration and clinical onset of PIBD.