Review Form 3

Journal Name:	**Journal of Advances in Medicine and Medical Research**
Manuscript Number:	**Ms_JAMMR_122971**
Title of the Manuscript:	**Assessment of histolopathological features of the gastrointestinal system of albino rats exposed to varying doses of CT radiation.**
Type of the Article	**Original Research Article**

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PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**		
Optional/General comments	**Review of the Research Article: Assessment of histolopathological features of the gastrointestinal system of albino rats exposed to varying doses of CT radiation.** This is a well-written research article investigating the histopathological effects of CT radiation on the gastrointestinal tract of albino rats. Here's a breakdown of the strengths and weaknesses of the study: **Strengths:** • **Clear research question:** The objective to evaluate the impact of CT radiation on the gastrointestinal system is clearly stated. • **Detailed methodology:** The article provides a comprehensive description of the experimental design, including animal model, radiation protocols, and histopathological analysis. • **Control group:** The inclusion of a non-irradiated control group allows for comparison and strengthens the study's conclusions. • **Data presentation:** The results section effectively presents the findings with clear descriptions of the observed histopathological changes and representative images. • **Discussion:** The discussion section connects the results to existing literature, discusses limitations, and emphasizes the importance of minimizing radiation exposure during CT scans. • **Ethical considerations:** The study mentions adherence to ethical guidelines and animal welfare protocols. • **Proper referencing:** The article provides a comprehensive list of references to support the claims made. **Weaknesses:** • **Limited time frame:** The rats were sacrificed only 24 hours after the last irradiation. This might not be enough time to observe all potential damage, particularly regarding repair mechanisms. • **Sample size:** While the sample size of 6 rats per group is acceptable, a larger sample size could strengthen the generalizability of the findings. • **Mechanism of damage not explored:** The study focuses on the observed damage but doesn't explore the underlying mechanisms of radiation-induced injury to the gastrointestinal tract. • **Limited dose range:** The study only investigated the effects of four radiation doses. Including a wider range of doses might provide a more complete picture. **Overall:** This is a well-conducted study that contributes to our understanding of the potential risks associated with CT radiation exposure to the gastrointestinal tract. The limitations mentioned	

	can be addressed in future research to further refine our knowledge in this area. Here are some additional points to consider: • The authors could discuss the implications of their findings for clinical practice, such as the importance of dose optimization in CT scans. • Future research could explore potential protective measures to mitigate radiation-induced damage to the gastrointestinal tract.	

PART 2:

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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