

Review Form2

Book Name:	Recent Developments in Chemistry and Biochemistry Research
Manuscript Number:	Ms_BPR_2506
Title of the Manuscript:	Prophylactic and therapeutic agents of acute phosgene gas exposure
Type of the Article	Book Chapter

PART 1: Review Comments

<u>Compulsory</u> 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 minimumof 3-4 sentences may be required for this part.	This manuscript provides valuable insights into the urgent need for effective therapeutic and prophylactic interventions for phosgene gas exposure, a significant concern in both industrial and potential terrorist scenarios. By using a well-established rat model, the study offers a critical evaluation of various agents that could mitigate the lethal effects of phosgene, contributing to the existing knowledge of chemical warfare agents and occupational hazards. The findings are particularly relevant for developing emergency response strategies and therapeutic protocols, making this manuscript a significant contribution to the field of toxicology and public health.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
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.	The abstract provides a general overview of the study but could benefit from some revisions to enhance clarity and completeness. Here are some suggestions: - The abstract mentions the use of rats as an animal model, which is good, but it could be slightly more detailed. You might include a brief mention of the study design or the rationale for choosing specific drugs and agents with anti-oxidative or anti-radiation properties. - The results section is concise but could be expanded slightly to include more specific findings. For example, rather than just stating that the "level of survival and pathologic features were improved," it could mention specific agents that were particularly effective or provide quantitative data if possible.	
Are subsections and structure of the manuscript appropriate?	The manuscript's structure and subsections are generally appropriate for the content and research presented. However, there are a few areas where improvements could be made for clarity, coherence, and readability: - Contextualization and Flow: The introduction covers a wide range of topics, but the transitions between them could be smoother. Consider organizing the content to move from general to specific, gradually leading to the rationale behind your study. - Repetition: Some information is repeated multiple times, such as the mention of phosgene's toxicity and the lack of effective treatments. Condensing these points would make the introduction more concise. - Animal Model Details: The description of the rats' conditions and handling is detailed, but it might be more effective to separate the details about animal care from the experimental design to avoid overwhelming the reader with information. - Treatment Descriptions: The treatments and drugs used are described thoroughly, but the section could benefit from clearer headings or subheadings to help guide the reader	

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	through the different treatments and their purposes. Future Research: It might be beneficial to include a brief mention of potential future research directions based on your findings.	
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.	This manuscript is scientifically robust and technically sound as it provides a comprehensive analysis of the toxicological effects of phosgene exposure using well-established animal models. The experimental design, including the grouping of rats and the administration of various therapeutic and prophylactic agents, is clearly described and methodologically appropriate for studying the effects of phosgene. The results are presented with statistical significance, particularly in evaluating the survival rates and lung damage, which reinforces the reliability of the findings. Additionally, the manuscript effectively correlates the experimental outcomes with known toxicological mechanisms, thereby contributing valuable insights into potential treatments for phosgene-induced lung injury.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references cited in the manuscript are sufficient and relevant, covering a broad timeline and including both historical and recent studies on phosgene exposure and its effects.	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the article appear to be generally suitable for scholarly communication. The manuscript is written in a clear and professional manner, with appropriate technical terminology that aligns with the subject matter. However, there may be a few minor grammatical errors, awkward phrasings, or inconsistent formatting that could benefit from careful proofreading. Ensuring that these elements are polished will enhance the overall readability and presentation of the manuscript, making it more effective for its intended academic audience.	
Optional/General comments	NIL	

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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