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| Book Name: | [**Medicine and Medical Research: New Perspectives**](https://www.bookpi.org/bookstore/product/medicine-and-medical-research-new-perspectives-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_2168** |
| Title of the Manuscript: | **LIXISENATIDE INDUCED CONGENITAL ANATOMICAL MALFORMATION AND HISTOPATHOLOGICAL CHANGES IN DEVELOPING CHICK EMBRYO** |
| Type of the Article | **Book Chapter** |

**General guidelines for the Peer Review process:**

This Book’s peer review policy states that **NO** manuscript should be rejected only on the basis of ‘**lack of Novelty’**, provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

**Important Policies Regarding Peer Review**

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/> Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

Special note:

A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval. This is acceptable in the academic world.

Source Article:

This chapter is an extended version of the article published by the same author(s) in the following journal. European Chemical Bulletin, 12(6): 8134-8141, 2023

D.O.I: 10.48047/ecb/2023.12.Si6.729

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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.** | This manuscript is important for the scientific community because it provides new insights into the teratogenic effects of Lixisenatide, a drug used to treat type 2 diabetes mellitus. By demonstrating the potential for anatomical malformations in developing chick embryos, the study raises important questions about the safety of Lixisenatide during pregnancy. I appreciate this manuscript for its rigorous methodology, including the use of a control group and statistical analysis, which lends credibility to the findings. However, further research is needed  to determine if these effects can indeed be extrapolated to humans. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The current title is informative but could be more concise and engaging. A suggested alternative title could be: "Teratogenic Effects of Lixisenatide: Anatomical Malformations and Histopathological Changes in Developing Chick Embryos" |  |
| **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 is comprehensive but can be improved for clarity and conciseness. Here are some suggestions for improvement:   1. Background: Ensure the therapeutic superiority claim of Lixisenatide over other GLP-1 receptor antagonists is supported by literature. 2. Methods: The statistical details can be streamlined to focus on key points. 3. Results: Specify the types of malformations and statistical significance clearly. 4. Conclusion: Clarify the implications for human health more succinctly. |  |
| **Are subsections and structure of the manuscript appropriate?** | The subsections and structure of the manuscript seem generally appropriate, but a few adjustments could enhance clarity and readability. Materials and Methods section can be more structured; Table 1 and Figure 1,2 legends in Result section can be more appropriate. Discussion section can be more informative and easy to understand for the readers, if it can be sequentially arranged like: comparison of results with existing literature (in first paragraph), then discussion of implications of the findings and stating the limitations and future research directions of the study (in last paragraph). |  |
| **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 due to its rigorous methodological approach. The study employs a well-defined interventional design and includes a sufficient sample size determined through G Power analysis, ensuring the results are statistically significant and reliable. The use of control and experimental groups allows for clear comparison and the identification of specific effects caused by Lixisenatide. Additionally, the detailed statistical analysis and the reporting of p-values provide strong evidence supporting the findings, enhancing the manuscript's credibility within the scientific community. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references provided cover a range of relevant topics, including the effects of various substances on chick embryos, the therapeutic use of Lixisenatide, and general teratogenic studies. However, some of the references are quite old (from 2000 and 2002), and a few more recent and specific studies could be added to strengthen the  manuscript. |  |
| Minor REVISION comments  **Is the language/English quality of the article suitable for scholarly communications?** | The language quality is mostly suitable but could be enhanced by refining grammar, ensuring clarity, and maintaining a formal tone throughout the manuscript. Following these recommendations will improve the readability and professionalism of the article, making it more appropriate for scholarly communication. |  |
| **Optional/General** comments |  |  |

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| **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)* |  |

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| **Reviewer Details:** | |
| Name: |  |
| Department, University & Country |  |