



**SDI Review Form 1.6**

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Journal Name:            | <a href="#"><u>Journal of Advances in Medical and Pharmaceutical Sciences</u></a>                                       |
| Manuscript Number:       | <b>Ms_JAMPS_29700</b>                                                                                                   |
| Title of the Manuscript: | <b>Induction of heme oxygenase-1 improves glucose tolerance and enhances insulin sensitivity in obese diabetic rats</b> |
| Type of the Article      | <b>Original Research Article</b>                                                                                        |

**General guideline for Peer Review process:**

This journal'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 guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

|                                            | <b>Reviewer's comment</b>                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Author's comment</b> (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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Compulsory</u></b> REVISION comments | <p>The authors demonstrated that treatment with hemin could provide protection effects on type 2 diabetes by the incensement of antioxidant, insulin production and insulin sensitivity. The manuscript has important scientific message, and should be of potential interest to the readers.</p> <p><b>Ethical issues: The authors did not mention in the Manuscript.</b></p>                                                               | <p>The experiment is performed according to the guidelines of the animal care and use committee of the faculty of medicine, Minia University, Egypt. But unexpectedly I forgot to mention in the manuscript. The ethical approval is added at its place in the manuscript.</p>                                                                                                                                                                                                                                                                                                                                                                              |
| <b><u>Minor</u></b> REVISION comments      | <p>1, The "Results" of Abstract Section should be described in detail, e.g. the data of each parameter before and after therapy.</p> <p>2, Rats fed high fat diet (HFD) for 2-week were considered as obese diabetic animal model. However, we can not find data of body weight of these rats compared with control rats.</p> <p>3, Why Hemin were administered 15 mg/kg twice-weekly?</p> <p>4, The English writing should be improved.</p> | <p>- The section of results rewritten and details of parameters and data were added</p> <p>- Rats were fed HFD for 6 weeks but induction of diabetes was done after 2 weeks from the start of the HFD protocol. Data for body weight were taken at the start and end of the protocol and weight significantly increased but hemin treatment has no effect on body weight (hemin did not decreased body weight of obese rats) and we made these data hidden.</p> <p>- Dose of hemin was chosen according to previous studies that proved the protective effect of hemin in some animal disease models and references for the dose are written beside it.</p> |
| <b><u>Optional/General</u></b> comments    |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |