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OPEN PEER REVIEW

Reduced Glutathione Peroxidase (GPx) Activity in Patients with Cutaneous Leishmaniasis

Marziye Pashmforosh, Masoud Foroutan, Shahrzad Soltani, Mehdi Sagha Kahvaz, Mohamad Sabaghan

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

3 comments · 4 Apr 2024 – 14 Apr 2024

Referee 1 Reviewer

MAJOR REVISION 4 Apr 2024

In this manuscript, "the reduction of glutathione peroxidase (GSH-Px) activity in patients with cutaneous leishmaniasis" was evaluated. The manuscript's topic falls within the journal's aims and may be interesting to the journal's broad readership. However, the manuscript also requires some refinement to improve its quality. Suggested comments are listed below:

1. In the first line of the introduction, Leishmania should be changed to Leishmania spp.
2. Were all cases of the disease confirmed only by preparing and staining smears? Can this technique alone, rather than techniques like PCR, confirm the disease?
3. Simply stating "using a kit" in the method is not scientifically or methodologically sufficient; the authors should specify the technique they employed for diagnosis.
4. Words such as H2O2 should be corrected.
5. In the investigation, what species of Leishmania parasite was identified? Please mention it, as it isn't mentioned in the article (major, tropica, etc.). If the parasite species is not determined, the authors should rename it to Leishmania spp.
6. To improve the manuscript, the authors must cite these articles:
10.2174/1871526520666191220114540
10.1016/j.actatropica.2022.106788
10.18502/ijpa.v18i4.14258
7. Explain more about the role of selenium in the introduction.
8. For instance, the procedure for measuring GSH-Px is quite brief and inadequate, and it lacks any explanation.
9. In the statistical analysis section, what parametric test (like Oneway ANOVA) was used to calculate the mean, standard deviation, and significance level?
10. When describing the analysis with SPSS software, it is enough to mention its version, and it is not necessary to mention the country.
11. No references have been used in different parts of the method; please add references.
12. In Line 82 in the result section, the significance level is wrong.
13. The main part of the figure or table should contain the findings, and the mean and standard deviation should be emphasized. However, the results section is extremely short and inadequate.
14. The article should be reviewed in terms of structure and grammar.
15. In Line 93, some words need revision, for example: •O2.
16. In line 119, the reference should be corrected.
17. The overall conclusion should be tied to the article rather than the role other things play in the regulation of leishmaniasis. In the conclusion section, you should relate the specified items to the study's findings.

Associate Editor

MAJOR REVISION 14 Apr 2024

This article needs major revision.

Editor-in-Chief MAJOR REVISION 14 Apr 2024

This article needs major revision.

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear Editor in chief

We would like to thank the reviewers for their detailed feedback to improve our submission. We are submitting a revised version of our manuscript entitled "**Decreased glutathione peroxidase (GPx) activity in patients suffering from cutaneous leishmaniasis**". As a result, the manuscript has undergone a revision with some details indicated below in our response to individual comments.

All comments applied to the paper with descriptions for some of them as following:

Reviewer 1:

Please apply the following minor comments in the article:

1. Please write the full form of GPx abbreviation in the abstract.

Response: Was done.

2. Add the limitations of the studies in the discussion.

Response: Was added (Lines 143-149).

3. Add the strengths of your studies to the discussion.

Response: Was added (Lines 143-149).

Reviewer 2:

In this manuscript "the reduction of glutathione peroxidase (GSH-Px) activity in patients with cutaneous leishmaniasis" was evaluated. The manuscript's topic covers the journal's aims and may be interesting to the journal's broad readership. However, it also requires some refinement to improve the manuscript's quality. Suggested comments are listed below:

1. In the first line of the introduction, Leishmania should be changed to Leishmania spp

Response: Was corrected (Line 28).

2. Did all cases of the disease become positive only by preparing smears and staining? Can just using this technique instead of techniques like PCR confirm the disease?

Response: Please refer to methods, part 2.1 (Lines 60-71).

3. It is not a scientific or methodological requirement to just declare "using a kit" in the method; the authors should specify the technique they employed for diagnosis.

Response: Was corrected.

4. Words such as H2O2 should be corrected

Response: Was corrected (Line 50).

5. In the investigation, what species of Leishmania parasite was identified? Please bring it up as it isn't mentioned in the article (major, tropica, etc.). If the parasite species is not determined, authors should rename it to Leishmania spp.

Response: Was done.

6. To improve the manuscript, the authors must cite these articles,

10.2174/1871526520666191220114540

10.1016/j.actatropica.2022.106788

10.18502/ijpa.v18i4.14258

Response: Was cited in the manuscript (Refs 3).

7. Explain more about the role of selenium in the introduction.

Response: Was added (Lines 45-52).

8. For instance, the procedure for measuring GSH-Px is quite brief and inadequate, and it lacks any explanation.

Response: Please refer to methods, part 2.4.

9. In the statistical analysis section, the mean, standard deviation and significance level were calculated with what parametric test (like Oneway ANOVA)?

Response: Please refer to methods, part 2.5 (Lines 82-86).

10. To use the analysis with SPSS software, it is enough to mention its version and it is not necessary to mention the country.

Response: Was done.

11. No references have been used in different parts of the method, please add references. Line 82 in the result section, the significance level is wrong.

Response: Was corrected.

12. The main part of the figure or table should contain the findings, and the mean and standard deviation should be noted with importance. However, the results section is extremely short and inadequate.

Response: Not applicable.

13. The article should be reviewed in terms of structure and grammar.

Response: Was done and errors corrected by authors.

14. Line 93 Some words need revision, for example: •O2

Response: Was corrected.

15. In line 119, the reference should be corrected.

Response: Was corrected by End note.

16. The overall conclusion should be tied to the article rather than the part other things play in the regulation of leishmaniasis. In the conclusion section, you should relate the specified items with the study's findings.

Response: Was done.

2 Revision 1

3 comments · 12 May 2024 – 19 May 2024

Amir Karimipour-saryazdi Reviewer

ACCEPT 12 May 2024

All changes were accepted.

Associate Editor

ACCEPT 19 May 2024

This article is accepted.

Editor-in-Chief

ACCEPT 19 May 2024

This article is accepted.