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OPEN PEER REVIEW

Investigation of Polymorphisms in the Upstream Sequence of LIF and LIFR Genes in the Infertile Women

Nahid Tajeddin, Ali Mohammad Ahadi, Gholamreza Javadi, Hoda Ayat

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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

0 comments

No public comments in this round.

2

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.

Responses to Reviewer 1:

comment: I have read the manuscript. In this study the authors investigated the association between LIF and LIFR genes polymorphisms and infertility.

Explanation: this study is carried out on **the upstream sequence or control region of these genes.**

Q1- In abstract mentioned that this study was done on 100 healthy women as control group while in the material and methods they stated 50 people as control group.

R2. This error was resolved.

Q 2- Results are not presented in the results section and they don’t have mentioned that how much of patients or control groups have these polymorphism.

R2: Two polymorphisms were identified but not in the control group. Also, a clear explanation was added to the end of discussion section.

Responses to Reviewer 2:

Q. This article is descriptive.

R. With respect, this manuscript is not a just descriptive analysis. As it is highlighted in the title, we investigated presence of probable polymorphisms in the up region or regulatory sequences of LIF and LIFR genes. This study was originally designed as an association study. But we just identified two new variation in these regions. Also there was any polymorphisms in control group. So the results are presented in the present form. However, the bioinformatics studies before design of laboratory experiments, must be consider.

Responses to Reviewer 3:

Q1- The title is not appropriate.

R1. The title was improved

Q2-The abbreviations, written in full format for the first time in Abstracts and Introduction (LIF, LIFR)

R2: Abbreviations was included.

Q3- Refer to previous studies in this area

R3. The study of the promoter regions of these genes was performed for the first time and there were no cases. However, we referred to some similar studies.

Q4- Inclusion criteria in the case group are not clear

R4. Inclusion criteria was added to the sampling part of material and method section.

Q5- Results are not written clearly and explicitly

R5- in the result section, we mentioned the identification of two polymorphisms. Also, a clear explanation was added to the end of discussion section.

Q6- Figures 1. 2 are not required and Fig. 2b and C are not of the quality

R6. Figure 1 was deleted, however, this paper presents detailed bioinformatics work on the promoter region of LIF and LIFR genes. Therefore removing Figures will not provide important information. And in fact, these results have led to the careful design of the areas under study. In addition, we did not present some results due to their overlap, so omitting the more figures would cause the paper to be defective. However, if the editorial board insists, we will remove these figures.

2 Revision 1

0 comments

No public comments in this round.

3

Revision 2

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 / Reviewers

Greetings and Regards!

The changes were made to the article as follows:

1- Manuscript was full reviewed.
2- References updated and added.
3- There were some changes and improvement in the discussion.
4- The results were further explained.

Your Sincerely

3 Revision 2

2 comments · 14 Dec 2019 – 14 Dec 2019

Associate Editor

ACCEPT 14 Dec 2019

accept

Editor-in-Chief

ACCEPT 14 Dec 2019

accept