Reviewer’s report

Title: Association of a placental Interleukin-6 genetic variant (rs1800796) with DNA methylation, gene expression and risk of acute chorioamnionitis

Version: 0 Date: 24 Jan 2019

Reviewer: Omer Faruk Bayrak

Reviewer's report:

In this present study, Konwar et al. revealed that genetic polymorphisms (rs1800796) in IL-6 gene associated with Acute Chorioamnionitis (aCA). They stated that this polymorphism may effective on DNA methylation and expression pattern of IL-6. IL-6 was previously linked with aCA and authors firstly investigated role of rs1800796 in aCA. The major advantage of the study is that Konwar et. al investigated placental genotype instead of maternal material. They have performed several analyses which validate their results. This article is acceptable to be published in this journal. I have some criticisms about the manuscript:

1) Although authors stated that potential variables that might affect the results such as socio-economic status, maternal smoking and alcohol use, PPROM status were not documented for all patients, these information should be collected retrospectively and statistical analysis should be accounted.

2) Conclusion part of both abstract and manuscript should be more clear.

3) Title of the manuscript should be re-edited.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.
Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

**Declaration of competing interests**
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or los financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license
(http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal.