Reviewer’s report

Title: Paraoxonase serum level activity in women with endometriosis: an observational study

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Reviewer: Fernando Luiz Affonso Fonseca

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Minor Essential Revisions

The authors showed an observational study on the activity of PON and endometriosis.

Although the authors do not check this relationship. The study is interesting and well designed.

I suggest in the Title to insert "there is no relationship of PON with endometriosis"

The results call attention two points and the authors showed no relationship:

1) Does the PON was not related to endometriosis due to the low average age of the patients. Although the disease this enzyme activity is not affected due to other factors including the low age. Advancing age is related to oxidative stress and consequently affect the enzymatic activity. The studies cited have worked with ages over the study. Please, to insert it in discussion.

2) They showed the average glucose. Interestingly, this result was classified as normal. But since most patients with a mean age of 33 years with a mean glucose concentration of 93 mg/dL to be highlighted in the discussion. Another point, was measured total cholesterol, cholesterol fractions and triglycerides in these patients?

In most, I believe the authors showed an interesting study about clinical biochemistry and endometriosis.

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I do not have conflict of interest.