Reviewer's report

Title: Effects of sex hormones on bronchial reactivity during the menstrual cycle

Version: 3  Date: 14 January 2014

Reviewer: Claudio Maria Sanguinetti

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Major Revisions:
This is an original investigation on the role of hormonal changes in young women affected with pre-menstrual asthma. The study has been correctly and interestingly carried out and in my opinion no compulsory revisions should be done. The demonstration here of the role of testosterone in this respiratory alteration is a breakthrough for eventual studies on the role and ways of action of this hormone.

Minor revisions:
- The first citation of PDE, while the acronymus should be well known, must be preceded by the extended name phosphodiesterase;
- It seems that a discrepancy does exist between the percentage of women with alteration of respiratory function results between the text and the legend of the fig.1 This issue must be clarified.
- When reporting the results, Authors indicate at first the title human study, but there is not an eventual section entitled "in vitro study" as already done in method section.

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

Quality of written English: Needs some language corrections before being published

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

Declaration of competing interests:
I declare I've no competing interest.