Reviewer's report

Title: Effects of Endogenous Sex Hormones on Lung Function and Symptom Control in Adolescents with Asthma

Version: 0 Date: 01 Feb 2018

Reviewer: Joerg Mattes

Reviewer's report:

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This is a well-written paper and the following suggestion are to be considered:

1) Please provide information on add-on treatments (e.g. montelukast, LABA)

2) The definition for severe asthma was modified with regard to two aspects, one is that add-on treatment were not considered to be necessary to make the diagnosis of severe asthma, and secondly if the child needed to have uncontrolled asthma despite being on maximum inhaled steroids therapy. Can the authors clarify how many asthmatics labeled severe were uncontrolled (eg based on ACQ) and discuss any potential implications of a modification of the ERS definition of severe asthma for the result interpretation in greater detail.

3) Presumably the authors did not measure FeNO which would have allowed to correlate hormone levels with activity of Th2-high airways inflammation?

4) Can the authors comment to what extent age versus puberty was relevant for predicting ACQ6. In that regard as GLI reference values are age-adjusted, would this potentially have lessened the puberty stage effects on lung function?
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

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