Reviewer's report

Title: A multi-centre, randomised, double blind, placebo-controlled, parallel group trial of the effectiveness of the nocturnal use of a Temperature Controlled Laminar Airflow (TLA) Device (Airsonett) in adults with poorly-controlled, severe allergic asthma (The LASER Trial): Study protocol for a randomised controlled trial.

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Reviewer: Yong-Qing Yang

Reviewer's report:

The manuscript entitled " A multi-centre, randomised, double blind, placebo-controlled, parallel group trial of the effectiveness of the nocturnal use of a Temperature Controlled Laminar Airflow (TLA) Device (Airsonett) in adults with poorly-controlled, severe allergic asthma (The LASER Trial): Study protocol for a randomised controlled trial " by Storrar WM et al aims to assess whether the new treatment can reduce the frequency of exacerbations in patients with severe allergic asthma by reducing exposure to aeroallergens overnight. Generally, the topic is interesting, however, there are some suggestions as follow:

Major Compulsory Revisions:
1. The objective of this trial is to assess the efficacy of the new treatment, however, there is no waiting list control and positive drug control.
2. Why the study was conduct at night? Will the author compare the effect of the treatment at daytimes?
3. When the author calculated the sample size, how to set the standard deviation? Please provide the formula.
4. What are the limitations of the study?
5. From the registration information of ISRCTN46346208, the overall start date of the study is Dec 1st, 2013 and the registration date is Jan 15th, 2014. Why the registration date is later than the overall start date?

Minor Essential Revisions:
1. The title should be modified in order to avoid redundancy.
2. The citation format should be changed.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.
Declaration of competing interests:

I declare that I have no competing interests