Reviewer's report

**Title:** Chronic effects of ambient air pollution on respiratory morbidities among Chinese children: a cross-sectional study

**Version:** 2  **Date:** 14 October 2013

**Reviewer:** Xiao-chuan PAN

**Reviewer's report:**

Major Compulsory Revisions#
1. Methods: Page 4, last 4 lines: the selection criteria for the subject is "living for more than 12 months in the district", used10 years air pollution data annually. But the subject children may live in the subject district in different years, i.e. different exposure time and level to air pollution. So the subjects should be stratified by living years (exposure years) for analysis.

2. Statistical analysis: What are the "dependent variable" and what are the simple size for each variable? it should be described.

3. results: the difference of air pollution level in LPD, MPD and HPD seems not significant statistically, so its association with health effects of the schoolchildren were uncertain.

4. "We hypothesised that air pollution in the past 12 months would have major influences on occurrences of respiratory morbidities in the same time period"? what is scientific evidences?

Minor Essential Revisions
1. the table 3,4 should be improved.

**Level of interest:** An article of limited interest

**Quality of written English:** Acceptable

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.