Reviewer’s report

Title: Prevalence and Associated Risk Factors of Chronic Bronchitis in First Nations People

Version: 0 Date: 06 Feb 2017

Reviewer: Gaetan Deslee

Reviewer’s report:

The authors describes the prevalence of chronic bronchitis (CB) in two First Nations communities located in the province of Saskatchewan, Canada. This is an interesting paper. Chronic bronchitis is an important respiratory condition associated with significant impact on quality of life, and deserves specific research. The findings from this article are important. I have a few comments/suggestions.

1) The definition of chronic bronchitis is based on an interviewer-administered survey using the question "Has a doctor ever said that you had chronic bronchitis?". The authors should discuss this point as a potential limitation of this study. Indeed, this study did not specifically use the definition of CB based on an assessment of the symptoms in the patient, and was based on a physician based diagnosis in the past. Some patients may not have been diagnosed by a physician as having CB whereas they have symptoms of CB. This point is important for comparison with other studies on CB.

2) It is not clear to me how the two communities A and B were defined. Would it be possible to be more precise in the location of these two communities? What is the explanation for choosing these two communities in this study?

3) There are no data in this study regarding hospitalization, exacerbation, use of antibiotics or other medications, quality of life, comorbidities, and pulmonary function tests. These data would have been interesting in the context of the assessment of CB. I understand it is complicated to obtain these data from these kind of studies. However, the authors should at least comment on these points, and discuss this as a limitation of the study.

4) The results presented in Figure 2 (obese/overweigh/nortmal) should be interpreted with cautious, and may be related to multiple statistical analyses. This should be discussed a limitation;

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?**
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I recommend additional statistical review

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