Reviewer’s report

Title: Health-related quality of life varies in different respiratory disorders: a multi-case control population based study

Version: 1 Date: 30 May 2018

Reviewer: Sebastien Chanoine

Reviewer's report:

The authors answered most of the comments raised by the reviewers. However, some changes should be done. Specific comments are as follows.

Major comments:

The authors did not answer the question about the stability of their result over time. The quality of life being variable over time, do they think that the differences in quality of life found between the different groups are stable over time?

I do not consider that the authors did a hierarchical classification of cases and controls. Can they explain this term?

The authors did not discuss why COPD cases had the highest percentage of current smokers while stopping smoking is one of the first therapeutic measures to put in place. Had they non-severe COPD?

The findings are interesting and highlight that not only physical dimension but also psychological dimension should be considered in clinical practice. The authors should further develop this point in the discussion.

Minor comments:

Abstract:

o The authors should precise that it is a single-centre study.

o P-values should be removed from the abstract (there are now RRR with 95%CI).
Line 207: There is an inversion of age between the two groups. According to Table 1, individuals without SF-36 were older than those with SF-36.

Line 217: I do not agree with this sentence. Individuals with COPD had not a greater number of non-respiratory comorbidities than those with other respiratory diseases. According to Table 2, they had more often non-respiratory comorbidities than the other groups.

Line 241: There is probably a misleading in the sentence "subjects with AR were protected from having a higher HRQL".

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

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Please indicate the quality of language in the manuscript:

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