Reviewer’s report

Title: The extra cost of comorbidity: multiple illnesses and the economic burden of non-communicable diseases

Version: 0 Date: 12 Sep 2017

Reviewer: Guenka Petrova

Reviewer’s report:

The article makes an attempt to develop a comprehensive "bottom-up" approach to estimate the costs of chronic diseases using a medico-administrative database. It is rather nationally oriented because it reflects the French health care system and available data bases so the authors needs to highlight one more comment that probably the approach and results will differ if the selected health care system were different.

The second thing that is not clear at the methodological level was hw the patients were imputed in all calculations. Readers are getting the impression that the major variable is the particular disease and the related to it comorbid conditions but it is not clear is it estimate at the patient level or at the disease level. This should be clarified at the beginning of the study because other factors are age for example could influence the cost. People in older ages are with impaired health condition than the younger chronic patients. This also should be commented.

there are 3 supplemented files to the articles but in my opinion authors should incorporate them in the general text. They are not so big but brings interesting information about the population sample and calculation method.

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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