Author's response to reviews

Title: Epidemiology and health economic analysis of injury in Shandong Province, China

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Responds to Professor Mei wen’s comments:

I still think it is not appropriate to use YPLL without age weighting and discounting to evaluate such a rare event as injury death and morbidities. I agree that age adjusted YPLL is necessary especially for small samples. Our sample was strictly selected by stratified, multi-stage random sampling method. The difference of age distribution was not significant between the sample and population. So we didn’t calculate the age adjusted YPLL.

How representative this study is to Shangdong Province? Hope some discussion will be included. For it is only a very small portion of the whole population. Yes, the sample is relatively small compared to the large population in Shandong. I suppose that the stratified multi-stage sampling method can make a sense on this question.

It is assumed the multivariate logistic regression is linear in Table 5, how about goodness of fit to the data? Besides, for this table, whether the regression is run including all the variables? The result of the goodness of fit to the data has been shown under table 5. Yes, all variables in the table were included in the analysis.

For severity of the injury, it is hard to measure based on self-reported data. And using whether to go to hospital and days of rest as a measure of severity can be misleading. It has been mentioned in discussion.

Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct) Corrections have been made. Reference for the first paragraph in the background should be included. Reference has been added. What is the standard for classifying rural areas into 1, 2, 3? It was added in methods.

It would be better to write in more detail about the calculation of direct cost and the two indirect cost. It has been done according to suggestion.

On top of page 9, there is estimation on the cases and deaths of injury in Shangdong in 2003, just wonder whether the reported number by the government is available to see how good this estimation is. It isn’t a surprise to the government. They have already pay attention to such problems. Effective measures need to be further developed.
Responds to Professor Peter Byass’s comments:

*Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)*
I have tried. I wonder if I have made the right correction.

There are very many small language errors, which I do not have time to point out individually. You will need to have the manuscript professionally edited to come up to the required standard for publication.

Same as above.