Reviewer’s report

Title: Effect of Sex and Age on Traumatic Brain Injury: A Geographical Comparative study

Version: 1 Date: 25 Jun 2017

Reviewer: A Ruet

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Effect of Sex and Age on Traumatic Brain Injury: A Geographical Comparative study

Authors took care to my comments and have given an answer to each. I only have to minor comments for the revised manuscript.

Revision 2

Comment 1:

Results

Sex

"The odds of unfavorable outcomes for women were 0.74 (0.86 ~ 0.64), 0.91(0.81 ~ 1.03) and 0.97 (0.82 ~ 1.14) in the logistic regression, the proportional odds model and the sliding dichotomy model respectively."

There is a mistake in the confidence interval of the first odd. Just an inversion probably. Could you correct it?

Comment 2

Figure 1

Could you please give the legend of the figure (data set? Meaning of "treatment A", "treatment B")?

Authors' Response: This figure is a general graph to visually describe the sliding dichotomy model. Treatment A and B generally represents the target covariate. For example, in a proper clinical trial "Treatment A" will be "Placebo group" and "Treatment B" will be "Treatment Group". In this study, we did not apply any treatment. Rather the sex and age groups worked as target covariates.
As we are only applying the model, providing the detailed algorithm of each model will derail the focus of the study. The reference should provide more details. However, the authors formulated the figure. Therefore, there is no issue of copyright.

It didn't appear so clearly in your manuscript that Figure 1 is "a general graph to visually describe the sliding dichotomy model".

"However, the authors formulated the figure".

Could you please cite the authors of the figure? Otherwise, making the same kind of graph with the CRASH data and "male" "female" instead of "treatment A" and "treatment B" would be of great value to illustrate your explanation.

**Level of interest**

Please indicate how interesting you found the manuscript:

An article whose findings are important to those with closely related research interests

**Quality of written English**

Please indicate the quality of language in the manuscript:

Acceptable

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