

# ***Interactive comment on “Quantification of uncertainty in rapid estimation of earthquake fatalities based on scenario analysis” by Xiaoxue Zhang et al.***

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Thank you very much for reading the article carefully and putting forward many key points. In response to your questions and opinions, we make the following responses: 1. This method is not purely for China, because the model data is used in China, so the results of some parameters are for China. But if we use other countries' data, we can adjust the parameters according to the method. And the difference between earthquake casualties is very large, so the different models are to consider the difference between time and space. 2. In this paper, we use the first-time acquired basic seismic parameters to evaluate the earthquake as it occurs before other loss

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data are obtained, so we select the intensity rather than the ground motion. Intensity is more macroscopic. 3. In this paper, two widely used empirical evaluation models in China are selected for comparison. The principle for the model selection is according to the data, because the empirical model has a great relationship with the selected data, so the model with the data in the same region was selected. 4. We will modify the errors that you put forward in the manuscript.

Please also note the supplement to this comment:

<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2018-187/nhess-2018-187-AC2-supplement.pdf>

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