

Peer Review of “Modeling Years of Life Lost Due to COVID-19, Socioeconomic Status, and Nonpharmaceutical Interventions: Development of a Prediction Model”

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Related Articles:

Preprint (medRxiv): <https://www.medrxiv.org/content/10.1101/2021.04.23.21256005v1>

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(*JMIRx Med* 2022;3(2):e38420) doi: [10.2196/38420](https://doi.org/10.2196/38420)

KEYWORDS

COVID-19; pandemic; socioeconomic status; mortality; nonpharmaceutical interventions; prediction model; low-income status; life expectancy; public health; income groups

This is a peer-review report submitted for the paper “Modeling Years of Life Lost Due to COVID-19, Socioeconomic Status, and Nonpharmaceutical Interventions: Development of a Prediction Model.”

Review Round 1

This paper [1] develops a model that compares the years of life lost (YLL) due to COVID-19 and the potential YLL due to the socioeconomic consequences of its containment. The results highlight the importance of socioeconomic status (SES) in evaluating the effect of nonpharmaceutical interventions (NPIs) during COVID-19. However, the methods, especially the empirical sample characteristics from which the life table is derived, are not clear.

Specific Comments

Major Comments

1. Needs to describe more about the data, study design, and study sample in more detail
2. Needs to discuss how the missing data was handled
3. It is important to consider a theoretical framework that can guide the selection of NPIs, indicators of SES, and the equivalent socioeconomic damages (on page 11). Right now, it is more arbitrary than scientific based.
4. The Discussion also needs to consider other factors (eg, pre-existing conditions, neighborhood resources, or occupation types). These are important social determinants of health factors

Minor Comments

1. The tables need to be adjusted in terms of the decimal points and more informative legends to guide readers.
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Conflicts of Interest

None declared.

Reference

1. John J. Modeling years of life lost due to COVID-19, socioeconomic status, and nonpharmaceutical interventions: development of a prediction model. *JMIRx Med* 2022;3(2):e30144 [[FREE Full text](#)]
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Abbreviations

NPI: nonpharmaceutical intervention

SES: socioeconomic status

YLL: years of life lost

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