

# Review of: "A population-based model for rationing COVID-19 vaccine"

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**Potential competing interests:** No potential competing interests to declare.

- The introduction must expand more clearly on the research problem and present literature on what has been done in this area so far. For example what are the current prioritization techniques and what are the gaps in such methods and how they may be ineffective.
- The connection between COVID-19 vulnerabilities and pneumonia's vulnerabilities must be clearly stated. Also, how can this research be applied to covid prioritization?
- The methods need to be organized better and explain what is the purpose of each analysis and why it is important to conduct it and how can these results be translated for other vulnerabilities.
- The conclusions from the analysis are not clearly listed. It is important to explain these in a way that helps public health policymakers understand how they can use these results to make actionable decisions.
- The connection between the pneumonia vulnerabilities and Covid is not clear. A small case study or application of this analysis on Covid data data will help the reader understand how conclusions can potentially change with disease.