

# 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 paper can be accepted after taking the following comments into account:

1. Table 1, Table 2 need to be reformatted.
2. The text (\* Included 11,629,494 unspecified non-diagnosis counts for Pathology/Laboratory/Procedures) should be reconsidered in terms of its position and its size.
3. The text (\*Odds Ratio =  $[(a*d)/(c*b)]$ ) should be reconsidered in terms of its position and its size.
4. The text (Figure 1 shows for females (upper) and males (lower) the visit #1 [(VP+/VP-)] ratios of sample proportions for those with and without VP for each diagnosis. The ratios of diagnoses with over-representation within the linked diagnoses of the VP+ group is given when the dropline ends above the horizontal y line (value one)) should be reconsidered in terms of its position and its size.
5. According to the provided conclusions, could the authors provide a suitable mathematical model related to COVID-19 outbreak? or even an economical model related to such outbreak?
6. Recheck whether there are some typos in the article that need to be corrected.
7. The introduction can be extended in view of the references (<https://doi.org/10.3390/sym14122583>), (<https://doi.org/10.1142/S179352452150090X>) and (<https://doi.org/10.3390/fractalfract6080456>).