The study entitled “Simple statistical insights into the COVID-19 data of Saudi Arabia: figures prior to vaccination campaign” tries to evaluate the the official current disease estimates in the Kingdom of Saudi Arabia to anticipate future risks and needs. The manuscript is well organized and the methodology is considerable to accept for publication. However, I suggest some improvements below:

1. Provide some research gaps in the introduction.

2. Please explain all variables and how you categorized them. If needed, provide references.

3. Please follow some recently published papers related to your study from high-impact journals.

4. Please explain, how you reached the final model, do you use any model evaluation techniques like AUROC, multicollinearity, feature selection, P-value, etc?

5. Please, explain the discussion based on your findings in brief. You can follow them:

<https://www.sciencedirect.com/science/article/pii/S2666016423001159>

<https://www.sciencedirect.com/science/article/pii/S2772707623000115>

<https://www.medrxiv.org/content/10.1101/2023.07.16.23292380v1>

<https://pubmed.ncbi.nlm.nih.gov/36721772/>

6. There is a great deal of room for improvement in both writing and grammar. I advise the authors to work with a writing coach or copy editor to improve the flow and readability of the text.