

Review of: "Causality Analysis for Non-Communicable Diseases, Obesity, and Health Expenditure: Toda Yamamoto Approach"

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Potential competing interests: No potential competing interests to declare.

Dear authors,

Using a new model for investigating the causality is a good idea and novel, but there are some comments and some questions as follows.

1. In abstract part, there is no need to mention the software name.
2. In the result part, at first it would be better to have some descriptive analysis for obesity, NCDs, and any other variables that were used in this study.
3. Is it possible to have any gender or age-group-specific results? It would make your article more valuable.
4. In the method part, please write about the steps that you need to run this causality test, I mean for example briefly write why the unit-root test was done. In this part, you briefly explain the advantages of this test and reference it somewhere. There is no need to have a background of the causality test in the method part, it would be better to point in the introduction part.
5. In Table 3, it would be better to show the star just on p or insert a column to show the degrees of freedom. Also, insert in the footnotes that the Wald test was used. Additionally, instead of writing H0 rejected in Table 3 last column, it would be better to write causality exists. Also, in this table, in the last row, the p-value is 0.40001. Is it truly reported!!!! If yes, the result is that H0 is accepted if else please edit it.
6. You have reported the unit root test in tables, but there is not any table to show the results that inform us about the information criterion, just shortly pointed out in Table 1. It would be better to have another table, to show these results separately.
7. On page7, it would be better to reference Table3 when you explain its results.
8. In the discussion part, in the first paragraph you should mention the main results you achieved in your study. Then in other paragraphs, you should compare your results with others and say the pros and cons.
9. In the conclusion part, mention the limitations and the advantages of your study.