Reviewer’s report

Title: Epidemiological analysis of the Kaohsiung city strategy for dengue fever quarantine and epidemic prevention

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Reviewer: Luzia de-Oliveira-Pinto

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Full Title: Epidemiological analysis of the Kaohsiung city strategy for dengue fever quarantine and epidemic prevention

Although dengue is not considered endemic in Taiwan, the importation of dengue viruses from neighboring countries through close commercial links and air travel is believed to be the cause of local outbreaks. To assess whether this risk is potential in the city of Kaohsiung, Taiwan, the authors intend to assess the relationship between imported and indigenous dengue cases in the city.

Few questions can be pointed out:
Based on the city of Kaohsiung, the authors could put a geographical map showing the distance between the top 5 countries with the most imported cases of dengue (Philippines, Indonesia, Vietnam, Malaysia, and Thailand) and the 5 countries with the least cases (South Africa, Japan, Tuvalu, Marshall Islands and Bangladesh) and discuss the relationship between distance and imported cases.

Considering that the detection of circulating viruses, anti-DENV IgM and anti-DENV IgG are related to the stages of infection, in which virus detection occurs in the early days, anti-DENV IgM antibodies are usually detected in the acute phase, whereas Anti-DENV IgG appear in the convalescent phase, I suggest to the authors to evaluate three groups of dengue cases based on the positivity of laboratory tests.

(1) RT-PCR DENV positive / both IgM and IgG anti-DENV negative;
(2) RT-PCR DENV negative / IgM anti-DENV positive / IgG anti-DENV negative;
(3) RT-PCR DENV negative / IgM anti-DENV negative / IgG anti-DENV positive

Analysis of three groups separately may indicate a high risk of transmission, assessing only viremic patients. Or low risk of transmission, as only exposed individuals would be involved. Discuss this hypothesis based on further analysis.

Each group should be analyzed separately, including correlation analysis.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

No

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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