**Author’s response to reviews**

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

**Authors:**

Chun-Hong Chen (chunhong@gmail.com)

Chao Ying Pan (panjoe2000@gmail.com)

Wei-Liang Liu (weiliangliu58@gmail.com)

Matthew P. Su (matthew.su@ucl.ac.uk)

Te Pin Chang (tepinchang@gmail.com)

Hui-Pin Ho (huipin@kcg.gov.tw)

Pei-Yun Shu (pyshu@cdc.gov.tw)

Joh Jong Huang (jjhua@seed.net.tw)

Li Jen Lin (eight@kcg.gov.tw)

**Version:** 2  **Date:** 21 Feb 2020

**Author’s response to reviews:**

Dear editors,

We received further reviewer comments for our manuscript entitled “Epidemiological analysis of the Kaohsiung city strategy for dengue fever quarantine and epidemic prevention” (Manuscript Number: INFD-D-19-01893) and have made further adjustments to the document.

The authors would like to thank the editor and reviewers for their thorough and expert review of our manuscript, and for their constructive suggestions for improvements. We have edited the manuscript in accordance with these suggestions, and below present a point-by-point response to the editor’s and reviewers’ comments. We believe the review process has significantly strengthened the main conclusions of our manuscript.

Yours sincerely,

Chun-Hong Chen, PhD
National Institute of Infectious Diseases and Vaccinology,
National Mosquito-Borne Diseases Control Research Center
National Health Research Institutes (NHRI).
35 Keyan Road, Zhunan, Miaoli County 35053, Taiwan.
Tel.: 886-37-246166 ext 37777
Editor Comments

1. Corresponding author email
We noticed that the corresponding author’s email address provided on your title page is different to the one you indicated in the editorial submission. Please amend one so that they match.
A1: Following the editor’s comment, we have changed the email address to "chunhong@gmail.com" for the editorial submission.

2. Consent for publication
Currently, the statement in your “consent for publication” section of your declarations is incorrect. Consent for publication refers to consent for the publication of identifying images or other personal or clinical details of participants that compromise anonymity. Seeing as this is not applicable to your manuscript please state “Not Applicable” in this section.
A2: We agree with the editor’s suggestion that the “consent for publication” should will be marked as “Not Applicable” and have made appropriate changes.

3. Ethics
Please clarify whether any administrative permissions were required to access the raw data from Taiwan CDC and the Kaohsiung City Health Department. If so please state who granted permission in the Ethics approval and consent to participate section.
A3: All case data is freely available online, with information regarding Kaohsiung Dengue fever cases being found on the CDC website (http://www.cdc.gov.tw/english/index.aspx). Our annotated databases used for analyses can also be made available to all interested parties via contacting either Director Lin of the Health Bureau or the corresponding author.
We have revised this section as follows:
All case data is freely available online, with information regarding Kaohsiung Dengue fever cases being found on the Taiwan CDC website (http://www.cdc.gov.tw/english/index.aspx).

4. Availability of data and materials
In 'Availability of data and materials' please add links/references to all databases used in the study. Please state whether public access to the database(s) is open or closed. If closed, please state whether your received administrative permission to access and use these.
A4: We have revised this section to reflect this:
Information on all dengue cases identified from 2013 to 2018 is publicly available via the Taiwan Centers for Disease Control (http://www.cdc.gov.tw/english/index.aspx) and Taiwan Government Open Data (http://data.gov.tw/en) websites. Annotated datasets used and/or analyzed during this study are also available from the corresponding author on request.

5. Source of Fig S1
Please state in the Figure Legend whether the Image depicted in Figure S1 is your own or taken from another source. If taken from another source please acknowledge the source in the figure legend, and if it is under copyright also state the written permission given to use and adapt it. If the above conditions are not met the image needs to be removed. Please note the editors may request proof of permission at any time. Should you require an alternative source you may wish to try Wikimedia Commons: http://commons.wikimedia.org/wiki/Main_Page
A5: The basis for this image is a dengue map constructed by Taiwan’s CDC and the world map was
created using OpenStreetMap, though we utilised the datasets we analyzed in this study. We have therefore edited the supplementary figure legend (lines 426-430) to clarify this:
Supplementary Figure 1. Map showing the distance between the top/bottom 5 countries from which Dengue was imported and Kaohsiung city. The analysis chart was created after analyzing all collected imported Dengue fever data from 2013 to 2018 and referring to the Dengue map constructed by the Taiwan CDC (https://cdcdengue.azurewebsites.net/Imported.aspx). The world map is publicly available via OpenStreetMap (https://www.openstreetmap.org/).

6. Clean manuscript
At this stage, please upload your manuscript as a single, final, clean version that does not contain any tracked changes, comments, highlights, strikethroughs or text in different colors. All relevant tables/figures/additional files should also be clean versions. Additional files should remain uploaded as separate files. Please ensure that all figures, tables and additional/supplementary files are cited within the text.
A6: We will follow the editor's instructions to upload the full final manuscript.

Reviewer 1 Comments
Lin Wang, Ph.D. (Reviewer 1): Please include all comments for the authors in this box rather than uploading your report as an attachment. Please only upload as attachments annotated versions of manuscripts, graphs, supporting materials or other aspects of your report which cannot be included in a text format.
Please overwrite this text when adding your comments to the authors.
A1: We thank the editor for their advice and will follow it during the resubmission process.

Reviewer 3 Comments
Reviewer (R) 1: Lines 240-241- the authors should add the word- "short-lived" when they state this fact about short lived cross protection because in case of Dengue infection it is extremely crucial to emphasize that secondary infections (with different serotypes) are potentially more dangerous.
Authors response (A) 1: Follow the reviewer' recommendations, we have added the word "short-lived" to lines 240-242:
“…, though other factors (such as the emergence of short-lived cross-protection between heterologous Dengue serotypes following disease outbreaks) may have also contributed to the extent of this reduction.”

R2. Table 2- "Total" column seems cutoff- please fix.
A2: We thank reviewer for this comment. We have now revised Table 2 in the Figures and Tables section accordingly.

FORMATTING CHANGES
Q1. We notice the order of authors in the submission system is different from the order listed on the title page of your manuscript. Please provide the correct order in both the metadata and on the title page. To change the order of authors, please use drag and drop option.
A1: We thank editor remind. we have corrected the order of authors in the submission system.
Q2: Please state clearly the role the funder(s) had in your study in the "funding" section of the
declarations.
A2: We thank reviewer for this comment and revised the "funding" section in line 315-317, CHC, WLL, MPS and TPC were funded by grant 07A1-MRPP09-035 and 08A1-MRGP12-035. CYP, HPH, PYS, JH and LJL were funded by grant 07A1-MRAP06-035 and 08A1-MRAP04-035 (National Health Research Institutes, Taiwan).