Reviewer’s report

Title: Fluoroquinolone consumption and Escherichia coli resistance in Japan: An ecological study

Version: 0 Date: 06 Feb 2019

Reviewer: Shazia Jamshed

Reviewer's report:

It is a well planned and well executed study done with a limited time frame of 2015 and 2016. The main concerns and justifications are required:

1) Why spatial dataset from 2015 and 2016 were only analyzed?

2) Generalization of your data is questionable even in the national context. If you consider this study to provide background data for national antimicrobial management policies to reduce antimicrobial resistance then why not an ecological study spanning a decade be considered?

3) Do you consider a digital map for the geocoding of your cases?

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

Yes

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

Yes

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

Yes

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 am able to assess the statistics
Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

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