Reviewer's report

Title: Adoption of Direct-Acting Antiviral Medications for Hepatitis C: A Retrospective Observational Study

Version: 1 Date: 23 Apr 2019

Reviewer: Research Square

Reviewer's report:

"STATISTICAL REVIEWER ASSESSMENT:

Is the study design appropriate for the research question (considering whether the analyzed population accurately reflects the design and whether you see any problems with control/comparison groups, e.g., likely confounders)?

No - there are minor issues

Are methodologies adequate and well implemented (considering whether assumptions are addressed and whether analyses are robust)?

No - there are minor issues

Are the analyses adequately communicated (considering whether reporting details are adequate and whether figures and tables are well labeled and described)?

No - there are minor issues

Does the interpretation accurately reflect the analyses without overstatement (considering whether limitations/bias are acknowledged and whether accurate descriptors, e.g., 'significant', are used)?

No - there are minor issues
Could an appropriately REVISED version of this work represent a statistically sound contribution?

Probably - with minor revisions

STATISTICAL REVIEWER COMMENTS:

The author stated that R software was used for statistical evaluations in the method section but it is not mentioned which package or packages are used. Table 1 and 2 are not clear. In Table 1, the test results of the comparisons should be shown separately for each comparison. Was the normal distribution of median income in a zip-code? In the descriptive representation of continuous variables, only the average seems to be used. Continuous variables should be shown as mean and ±standard deviation. In the text and tables, p values should be shown such as p = 0.123, instead of p = 0.05, p <0.05 or p <0.01. The p values should be displayed in 3 digits decimals in all tables and text. In multivariate ordinal logistic regression model, beta, standard error of beta, wald test statistics, odds ratio, confidence interval of OR and p-values must be shown in table 2. A sample size of approximately 6500 people, and hence chi-square tests, and ANOVA may be unrealized. It is more accurate if the effect size is also shown in these analyzes.

REQUESTED REVISIONS:

ADDITIONAL REQUESTS/SUGGESTIONS: No need"
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 am able to assess the statistics

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

Acceptable

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

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No