Reviewer’s report

Title: Adverse drug reactions due to opioid analgesic use in New South Wales, Australia: a spatial-temporal analysis

Version: 0 Date: 20 May 2019

Reviewer: Deborah McDonald

Reviewer's report:

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Please overwrite this text when adding your comments to the authors.

Thank you for the opportunity to review manuscript PHAT-D-19-0010 entitled, Adverse drug reactions to opioid analgesic use in New South Wales, Australia: a spatial-temporal analysis. The use of a spatial temporal analysis to examine opioid adverse drug responses is innovative and has potential to inform healthcare policy and practice. The manuscript is generally well written. There are a few areas that need to be addressed prior to publication.

* Figures 1 and 2 are difficult to read online or in print,

* Page 8, lines 40 - 42, the trend appears to be increasing throughout the 10 years rather than only in comparison to the second five years compared to the first five years. Please clarify and address.

* The findings on page 9, lines 17 -29 are very interesting. More discussion on the findings would be helpful.

* Page 11, lines 5-12 the sentence needs to be written more clearly. Pages 12 and 13 need to be broken into appropriate paragraphs.

* Please add to the discussion content on how the method can be combined with other data and methods to address opioid ADR identification and prevention efforts.

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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