Reviewer’s report

Title: The Use of a Multiple Imputation Method to Investigate the Trends in Histologic Types of Lung Cancer in Songkhla Province, Thailand, 1989-2013

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Reviewer: Zhanwei Wang

Reviewer's report:

Hutcha and colleagues explored the use of a multiple imputation Method to investigate the trends in histologic types of lung cancer in a Thailand population. It is an interesting study. I have some major concerns:

1. There were some predictor variables shown in Table 3, the author should add them into Table 1, do statistical analysis, and describe in the text.

2. In line 12 on page 6, the author mentioned the two p values 0.235 and 0.968, I can not get them in Table 4, the author need add the p values in Table 4.

3. In this study, sex, age, religion, other district, and year of diagnosis were included. Could the author explain the reason? How about the other factors related to lung cancer?

4. Figure 1 and Figure 2 shown the trend of lung cancer incidence by major histologic type. The author also concluded that "a rapid increase in the incidence of ADCA was found while the incidence of SCC in males showed no significant change and it was declining in females". How to test the different trend change using statistical methods.

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.

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:

Needs some language corrections before being published

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