Reviewer's report

Title: Being unvaccinated and having a contact history increased the risk of Measles Infection during an Outbreak: A finding from a Measles Outbreak Investigation in Rural district of Ethiopia

Version: 0 Date: 15 Nov 2018

Reviewer: Melissa Baggieri

Reviewer's report:

Following there are some main issues related to each section. The authors should avoid the use of "we" all over the text. The language has to be revised by a native English.

ABSTRACT

- Line 8: "as of May 17" the authors should date the outbreak only by "May 2016"

- Line 9: the authors should write that Sekota Zuria district belongs to Northern Ethiopia (here in spite of line 17)

- Line 17: "A confirmed case.. antibodies" the authors should remove this sentence. The authors should describe that cases involved in the study were lab confirmed and epidemiologically linked both.

- Line 34: "While.. years" the period is not necessary here.

- Lines 35-36: the authors should write that 5 samples were collected for the confirmation of the diagnosis.

BACKGROUND

- Line 51: please specify how many doses the vaccination coverage (76 and 84%) refers to.

- Line 61: please specify that 16702 cases were notified to the Ethiopian surveillance system.
- Line 4 pg4: 13301 cases were not confirmed cases, otherwise 13301 is the sum of lab confirmed, epidemiologically linked and clinically compatible.

- Lines 11-24 pg4: these sentences are confused. The authors should present these data describing the distribution of Ethiopian zones in a better way. "Between 2000 and 2014, In Amhara region, a total of 2412 cases were lab confirmed, 23842 were epidemiologically linked and 9699 were clinically compatible. As one of the 11 zones of Amhara, Wag-Himra alone reported 629 cases…"

- Line 44: please specify if the vaccination coverage (74.2%) refers to 1 or 2 doses.

RESULTS

- Line 6 pg7: please provide the definition for the abbreviation AOR and COR

- Line 17: please specify if the vaccination coverage (74.2%) refers to 1 or 2 doses.

- Table 1: please specify the abbreviation COR-AOR

- Line 12 pg8: the same as above

**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?
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I recommend additional statistical review

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