Reviewer’s report

Title: Observational study of a new strategy and management policy for measles prevention in medical personnel in a hospital setting

Version: 1 Date: 03 Dec 2018

Reviewer: Vicky Sheppeard

Reviewer's report:

This paper contains a large range of information about a local response to imported measles. While I am sure that much of this information is very useful for local evaluation I recommend that a published manuscript focus on the aspects which are novel and may provide guidance to other institutions facing similar challenges.

Hence I recommend that the paper focus on the interesting finding of differing seropositivity by age amongst health care workers, and the increased uptake of vaccine amongst those shown to be seronegative.

I suggest that the measles outbreak be reported briefly in the introduction (give context that there is no endemic measles in Taiwan, however occasional imported cases; in the setting of an importation with several generations of spread that several health care workers were exposed) and also briefly outline the vaccination policy of the institution, and the measured level of adherence.

I would not bother with describing models of care, nor dwelling on measles vaccine supply or who paid, although it is informative to include relative serology and vaccine costs.

Just simply describe the vaccination history of the health care workers, how this related to seropositivity and age, and the vaccination response. Remove figures 1, 2, 3, and 5, and amend figure 4 to remove reference to the model.

The paper also requires a discussion of primary and secondary measles vaccine failure, and how these may be contributing to the serostatus of the health care workers, and what risks may persist, even after revaccination.

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.

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:

Not suitable for publication unless extensively edited

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