Reviewer's report

Title: Impact and clinical profiles of Mycoplasma pneumoniae co-detection in childhood community-acquired pneumonia

Version: 0 Date: 05 May 2019

Reviewer: Hong Kai Lee

Reviewer's report:

Well done for the significant efforts in this study.

Line 147-8: It would be useful to know if there is statistical difference in age and gender between the 176 Mp CAP children and the 4148 population CAP children.

Table 3: Please use median/IQR to describe ages and non-parametric stats test for inferential testing in all groups. In particular, the MP-Bac and Mp-Bac-Vir groups with only sample size of 8 do not qualify for a parametric description or testing.

Table 4 & 5: Please use median/IQR to describe all the continuous data and non-parametric stats test for inferential testing in all groups. In particular, the MP-Bac and Mp-Bac-Vir groups with only sample size of 8 do not qualify for a parametric description or testing.

Line 200-2: Please state the stats from the Wuhan study.

Summary Results and Discussion Line 224-5, 261-4: This study may have overly amplified the significance of Mp-HRV coinfection but inevitably underweighed the Mp-Vir coinfection group caused by other respiratory viruses. Such claims may pose a risk that underestimates the clinical impact of other potential viruses lacking of supporting sample sizes in this study. In fact, the significance of clinical manifestations including complications (0.057 vs 0.02) of Mp-Vir and Mp-HRV appear to be quite similar when compared to the Mp monoinfection group. The significance of Mp-HRV coinfection over other MP-Vir coinfection by other resp viruses should be tested separately by comparing Mp-HRV group against Mp-Vir group separately.

Please note that HRV is a prevalent respiratory virus detected in many parts of the world. it is certainly appropriate to highlight the HRV prevalence in overall Mp-Virus infection as part of study observation and discussion.

Minor:

Proper formatting is required for the Table 2 footnote, i.e. all Genus should start with Capital Letter. If possible please split the Genus and Species properly, i.e. to allow a single spacing between Genus and sp, "S.epidermidis
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.
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None declared.

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