Reviewer’s report

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

Version: 0 Date: 07 May 2019

Reviewer: Ching-Chi Lee

Reviewer's report:

This manuscript is, "Impact and clinical profiles of Mycoplasma pneumoniae co-infection in childhood community-acquired pneumonia" by Dr. Zhao and his colleagues. This is an interesting study that substantially addresses a comparison of clinical manifestation in pneumonia child caused by mycoplasma alone and coinfection with other pathogens. This work comprehensive collected various pathogens and analyze numerous clinical characteristics, such as patient demography, comorbidities, symptoms/signs, image presentations, lab data, pneumonia severity, and complication

My primary concerns are the following:

First, because of fewer patient number in mycoplasma group, such as Mp-Vir (47 patients), Mp-HRV (30), Mp-Bact(8), and Mp-Bcat-Vir (8). These small population size indeed diminish the statistic power. You should collect more patients to diminish this type II error and calculate the power.

Second, in Figure 5, several parameters was graded for pneumonia severity, but all were not suitable and standard. In my opinion, pneumonia severity, such as PSI, or sepsis severity, such as ASPS, APACH, and SOFA, was suggested.

Third, numerous comorbidity types were analyzed in your work, but the comorbidity severity is necessary to compare between Mycoplasma mono-infection and its co-infections.

Fourth, in the Figure 3 and 4, continuous variables should be expressed as the mean values ± standard deviations and compared by the Student's t test. The address in the format of median (IQR) was not analyzed by Student's t test.
**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.

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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