Reviewer’s report

Title: Etiologic spectrum and occurrence of coinfections in children hospitalized with community acquired pneumonia

Version: 0 Date: 08 Sep 2017

Reviewer: Benoît Visseaux

Reviewer's report:

The authors provide a monocentric descriptive study describing the epidemiology of respiratory pathogens identified in community acquired pneumonia in children. The study is well conducted and fulfil its objectives. The degree of novelty is not so high, but the patient definition is clear and they associate clinical, virological, bacteriological and radiographic data. The study was also conducted on an whole year, which is interesting as such studies are often limited to winter periods. The observations are clear and put in the light of previous works. This study also adds some information into the debate on viral and virus + bacteria coinfection severity and worth publication.

Major comment:

1- Is it possible to add a quick word or a simple figure to depict the number of included case over time as well as the epidemiology of the pathogens across the study period? This can be useful to discuss the importance of respiratory testing outside the winter period.

2- A short word should be added about coronaviruses epidemiology in China. They are not detected by the authors but seems not so frequent in children in some previous work outside of China.

3- The PCR primers are not given in the methods section. They should be added, or the reference of the paper describing them, as the primers' choice can greatly influence the sensitivity of the test.
Minor comment:

1- Page 5, line 42. Regarding the nasopharyngeal samples, a word should be added regarding the maximum tolerated delay between the sampling and the reception in the lab.

2- Page 9, line 34. The first sentence of the paragraph need to be rephrased.

3- A word can be added in the limitation of the study about the heterogeneity of the tests used for virus detection as some are detected by immune-fluorescence and some other by in-house PCR.

4- I am curious about the sentence on traditional Chinese hospitals (page 4, line 42) which present lower levels of mix infection rates. Is this because of the severity of the patients that is different or because of testing practice?

**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.

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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I received reimbursements for scientific congress inscription from bioMerieux and StatDx, involved in respiratory viruses testing.

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