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OPEN PEER REVIEW

Analysis of Drug Resistance, Virulence, and Phylogeny of *Klebsiella pneumoniae* in Patients with Different Infections

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

1 comment · 19 Dec 2022

Associate Editor

MAJOR REVISION 19 Dec 2022

According to the reviewer's comments, the manuscript needs Major Revision.

2

Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear Mr. Jianing Xi,

Thanks for submitting your valuable manuscript to the journal. As a result of this, we would like to inform you that the review of your manuscript is finished, and based on the editorial decision, you need to do a "**Major Revision**" on your manuscript. Even though this manuscript has enough quality to enter the review process, it needs some significant **(major) revisions** in some points of view.

> Reviewers' Comments:

Reviewer 1:
This manuscript is in line with the scope of journal studies. Overall, the paper needs modification according to following comments.
The major concerns are:
- Provide structured abstract with following headings: Background, Objectives, Methods, Results and Conclusions.

Reply: Thanks for your review and comment. We have revised the abstract in accordance with your comments.

- The name of bacteria in must be italic. Italics are used for bacterial at the level of family and below. All bacterial are italicized (for more information visit: https://wwwnc.cdc.gov/eid/page/scientific-nomenclature*).*

Reply: Thanks for your review and comment. We have revised the name of bacteria in accordance with your comments.

- The gaps and importance of the study are not properly analyzed in the introduction section.

Reply: Thanks for your review and comment. We have added this part content in the background section in accordance with your comments. (Please see the line 35-69)

- Antimicrobial susceptibility testing section, please mention the amount of each antibiotic (by µg).

Reply: Thanks for your review and comment. We conduct the antimicrobial susceptibility testing by VITEK-2 Compact automatic

bacterial analyzer. We just need to add samples into the matched susceptibility test card provided by manufacturer, put the card into the bacterial analyzer and obtain results according to the manufacturer's operation. The manufacturer don't specify the concentration of each antibiotic and we have revised the relevant statement (Please see the line 88-89) .

- Please add a proper reference for CLSI. In this regard, references 11 and 12 should be deleted.

Reply: Thanks for your review and comment. We have added a proper reference for CLSI and deleted the references 11 and 12 *in accordance with your comments.*

- The dendrogram in figure 3 has no clinical data, resistance, and resistance gene correlations. The legend and labelling do not give enough information.

Reply: Thanks for your review and comment. We have supplemented the Figure 3 with legend and label related information in accordance with your comments.

- In the methods section, the authors have mentioned the pulsed field gel electrophoresis (PFGE), while there is no result from it. If it is not used, why was it mentioned in samples instruments and equipment section?

Reply: Thanks for your review and comment. The PFGE was not used in the construction of the pneumogram library and has since been deleted

-The blaKPC, blaNDM, blaVIM, blaOXA-48, and blaIMP carbapenem resistance genes were mentioned in the methods section, but not mentioned in the summary section.

Reply: Thanks for your review and comment. We have added the part in the summary section in accordance with your comments. (Please see the line 169-176, 214)

- The abstract needs significant modifications and updating and should be the mirror image of the entire manuscript and contents covered.

Reply: Thanks for your review and comment. We have modified and updated the abstract.

- There are many statements that the authors just speculate, with no real evidence to be related or compared.

Reply: Thanks for your review and comment. We have added some related papers to supported or compared with our findings.

- In Material and Methods section-Paragraph "Data analysis"- It is not clear on which data the kind of statistical analysis has been applied, please specify and add in the end of material and methods.

Reply: Thanks for your review and comment. We have specified and added in the end of material and methods.

- No limitations of the study are indicated. Please add "limitation and suggestions at the end of the paper.

Reply: Thanks for your review and comment. We have added limitation and suggestion of our work at the end of the paper. (Please see the line 216-218, 239-241)

Reviewer 2:
1. Genus and species names should be in italics, revised in the title and whole manuscript.

Reply: Thanks for your review and comment. We have revised the name of bacteria in accordance with your comments.

2. Add background to the abstract part.

Reply: Thanks for your review and comment. We have added background to the abstract part in accordance with your comments.

3. Keywords should be in alphabetical order.

Reply: Thanks for your review and comment. We have revised keywords in accordance with your comments.

4. Statistical values are needed to be added to the abstract.

Reply: Thanks for your review and comment. We have revised this part in accordance with your comments.

5. Add the more recent statistic about the incidence of this disease.

Reply: Thanks for your review and comment. We have added the more recent statistic about the incidence of this disease in background part in accordance with your comments.

6. Provide text in the introduction "on what will be the value addition of the current research in the field".

Reply: Thanks for your review and comment. We have added contents to discuss the value addition of the current research in the field. (Please see 59-67).

7. The manuscript lacks novelty, the authors should point out and focus on the novelty side of the work.

Reply: Thanks for your review and comment. We have pointed out the novelty side of our work. (Please see line 61-67)

8. The authors should add a more deeper concept to the Introduction part it's too short.

Reply: Thanks for your review and comment. We have revise the introduction part in accordance with your comments.

9. Genus and species names should be in italics, in the introduction parts too.

Reply: Thanks for your review and comment. We have revised this

part in all manuscript in accordance with your comments.

10. Please define abbreviations after the first time writing of completed words everywhere including figures like ICU, or Figure 1 (VFDB??/ ST??)

Reply: Thanks for your review and comment. We have revised this part in all manuscript in accordance with your comments.

11. Don't start the sentences with the number, check section 2.1. (70 ???)

Reply: Thanks for your review and comment. We have revised this part in accordance with your comments (please see lines 58).

12. Sample collection and other tests could be addressed to the proper references.

Reply: Thanks for your review and comment. We have added the references at the corresponding locations in accordance with your comments.

13. Please explain more about the details of DNA extraction, primer sets and PFGE and conditions.

Reply: Thanks for your review and comment. We have revised the part contents in accordance with your comments (see lines 122-131).

14. Add the sequence of the primers that you used as a Table.

Reply: Thanks for your review and comment. We have added the sequence of the primers in the supplementary table 6

15. Results of the study have not been compared with the findings of earlier scientists

Reply: Thanks for your review and comment. We have compared our findings with earlier scientists in the discussion part.

16. The manuscript is full of grammatical mistakes, there are many typing and grammatical mistakes were observed.

Reply: Thanks for your review and comment. We have carefully revised and checked the whole text for grammatical errors.

17. In the references part, the name of the journals should be in abbreviations.

Reply: Thanks for your review and comment. We have revised in accordance with your comments.

18. Replace the references of older years with the reference of latest years.

Reply: Thanks for your review and comment. We have replaced the references of older years with the reference of latest years in accordance with your comments.

> Associate Editor's Comments:

Associate Editor 1:
According to the reviewer's comments, the manuscript needs Major Revision.

> EIC Decision:

Thank you for submitting your manuscript to JJM. I have completed the review of your manuscript and a summary is appended below (Pleases find attached files). The reviewers recommend the reconsideration of your paper following major revision. I invite you to resubmit your manuscript after addressing all reviewer comments.
1. Please answer point by point to the reviewer's comments on a separate sheet under WORD format and write your modifications in the revised version (WORD format) in colored or highlighted

letters.
2. Your answers to reviewers' queries are not only for the Editorial Board but for the readers and should be included, when appropriate, in the manuscript for improvement and a better understanding. Moreover, add continuous line numbers for text and put suitable line numbers for each response.
3. When resubmitting your manuscript, please carefully consider all issues mentioned in the reviewers' comments, outline every change made a point by point, and provide suitable rebuttals for any comments not addressed.
4. In addition, JJM INSTRUCTION is attached to the mail, please find it.
5. Please add the ORCID number into you and your collages account, then automatically appear in your published papers in JJM both in HTML and pdf. Pleases follow the below link for the process.
https://sites.kowsarpub.com/jjm/knowledgebase/category/tree.html#orcid.html

2 Revision 1

0 comments

No public comments in this round.