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OPEN PEER REVIEW

Three-Year Evaluation of *Pseudomonas aeruginosa* Bacteremia in Patients Admitted to a University-Affiliated Hospital, Mashhad, Iran

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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 · 14 Jun 2022

Referee 1 Reviewer

MINOR REVISION 14 Jun 2022

The manuscript titled " Three-year Evaluation of Pseudomonas Aeruginosa Bacteremia in Patients Admitted to a University-Affiliated Hospital, Mashhad, Iran " is well-written and well-executed. It can be accepted after minor revision.

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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 Editor,

Thank you for considering our manuscript for revision. The changes are highlighted in blue in the manuscript. Also, the comments are addressed below:

Reviewer 1:

Dear authors

-There are many Editing errors in the text.

Response: The manuscript has been revised by an expert English editor and errors have been edited.

-What is your statistical analysis between P.aeroginosa and other pathogens?

Response: Our study is about various aspects of clinical , laboratory and … characteristics of *Pseudomonas* bacteremia and no other bacteria.

-Correct total No of Shivering and Received appropriate treatment in Table 1. Response: Done
-Make a new table showing the antibiotic resistance and multiple antibiotic resistance of P.aeroginosa. Response: Done

my final decision :Major revision

Reviewer 2:

Dear authors

Three-year Evaluation of Pseudomonas Aeruginosa Bacteremia in Patients Admitted to a University-Affiliated Hospital, Mashhad, Iran

-The time of study (Three-year Evaluation)Is short ,it's better for 5-year evaluation.
-Abstract:
-Number of samples must be written in Material and methods

Response: Number of samples has been added to method section of abstract.

-Name of antibiotic resistances and multiple drug resistances must be written(of course after statistical analysis) Response: Done

Key Words:

-Sepsis must be omitted Response: Done.

In text:

-There are many Editing and grammatical mistakes in the text.

Response: The manuscript has been revised by an expert English editor and errors have been edited.

-Name of multiple antibiotics resistance to P. aeruginosa and also antibiotic sensitive ones. Response: Done

My decision: Minor revision

Reviewer 3:

The manuscript titled " Three-year Evaluation of Pseudomonas Aeruginosa Bacteremia in Patients Admitted to a University-Affiliated Hospital, Mashhad, Iran " is well-written and well-executed. It can be accepted after minor revision. Response: Thank you very much.

> Associate Editor's Comments:

Associate Editor 1: Dear Authors

There are many grammatical and editing errors in the text; such as(" figure " to "Figure" - Spices of bacteria must be written Italic in the whole text and ……)

Response: The manuscript has been revised by an expert English editor and errors have been edited.
The authors have written : One of the limitations of the present study was the small sample size and selecting participants from one center, which reduces the generalizability of the results. Secondly, the data were retrospectively collected from the medical records, and any bias during data recording could affect the results of the study.

It seems the other limitation "that is important " is the short time duration of study (2012-2015). Response: Your comment has been added to the study limitations.

Abstract:
Number of samples must be written in Material and methods.

Response: Number of samples has been added to method section of abstract.

-Name of antibiotic resistances and multiple drug resistances must be written(of course after statistical analysis). Response: Done

The appropriate keywords: Pseudomonas aeruginosa, bloodstream infection, community-acquired infection Response: The suggested keywords have been replaced.

Background:
Omit “2.Objective”that added the following paragraph to the background part. Response: Done.
Material and methods: The authors of this article did not mention the confidentiality of patients' information Response: It has been added to method section.

- What is statistical analysis between P.aeroginosa and other pathogens

Response: Our study is about various aspects of clinical , laboratory and … characteristics of *Pseudomonas* bacteremia and no other bacteria.

Results:
-Authors has shown in figure 3, P. aeruginosa had a high resistance to multiple antibiotics and was sensitive only to few antibiotics.
Are they from different classes? If yes, mention the name of antibiotic families. Which antibiotics?

Response: In our study, *Pseudomonas* was 100% sensitive to colistin, which was corrected and mentioned in the article and table.

-The authors should mention information about MDR properties of their studied bacterium, and also the prevalence of multidrug resistant P. aeruginosa among alive and deceased patients as well as BSI and CAI.

Response: Although no analysis was performed exactly as noted by the reviewer, there is an indirect but important finding in this regard that is noted in the article, namely a significant difference in mortality of nosocomial infections vs community-acquired infections.

-Correct total No of Shivering and Received appropriate treatment in Table 1. Response: Done

-Make a new table showing the antibiotic resistance and multiple antibiotic resistance of P.aeroginosa. Response: Done (Table 1)

-in Conclusion: please add:

For prevention, it is necessary to educate : frequent hand-washing ; personal hygiene principles and disinfection of hospital environment and equipment. Response: Your comment has been added to the conclusion.

References:
A quarter of references used in this paper were for 2019 and 2020. Please use new ones and correct font of them. Response: References have been updated and more 2021 and 2022 studies have been used; the font has been changed, as well.

2 Revision 1

0 comments

No public comments in this round.