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OPEN PEER REVIEW

Phenotypic and Molecular Characterization of Vancomycin and Linezolid Resistance in Clinical Isolates of *Staphylococcus aureus*

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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 · 3 May 2023

Masoumeh Navidinia Reviewer

MINOR REVISION 3 May 2023

Title

-The title isn't accurate and informative.
The conclusion of the abstract doesn't contain the most important points regarding methods and results.
-Please prepare your keywords according to the MeSH system.

Methods
The type of the study was not indicated.
Methods already published should be indicated by a reference: only relevant modifications should be described.
The study population was not specified.
The time and place of the study were not stated.
Inclusion/exclusion criteria were not explained.
The sample size and its calculation formula were not stated.

Discussion
The main findings of the study were not indicated at the beginning of the discussion.
The limitations of the study and suggestions were not addressed at the end of the discussion.

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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,

Point-by-point response to reviewer

Thank you for giving us the opportunity to submit a revised draft of the manuscript "**Prevalence and molecular characterization of vancomycin and linezolid resistance in Staphylococcus aureus clinical isolates** " for publication in **Archives of Clinical Infectious Diseases**. We appreciate the time and effort that you and the reviewer dedicated to providing feedback on our manuscript and are grateful for the insightful comments on and valuable improvements to our paper.

We have Considered the comments and suggestions made by the reviewer to improve and clarify the manuscript.

Please find below a detailed point-by-point response to all comments (reviewer' comments in black, our replies marked in yellow)

Reviewer Responses:

Title

- **The title isn't accurate and informative.**

Response: thank you. Title was corrected and highlighted in the manuscript.

- **The conclusion of abstract doesn't contain the most important points regarding methods and results.**

Response: The results of this study demonstrated that the prevalence of MRSA isolates was high, which can lead to treatment failure. Also, the spread of VRSA and VISA isolates can be considered as a serious concern for the health system. Therefore, the findings of this research emphasize appropriate monitoring and control measures to prevent the emergence and transmission of MRSA and VRSA strains.

- **Please Prepare your keywords according to MeSH system.**

Response: Dear reviewer, keywords were selected according to MeSH system.

Methods

- **The type of the study was not indicated**

Response : Thank you for your attention. Dear reviewer, The type of study in this research was descriptive-epidemiological and added.

- **Methods already published should be indicated by a reference: only relevant modifications should be described**

Response: Dear reviewer, we added material and method references.

- **The studied population was not declared**

Response: Dear reviewer, The study population consisted of all non-repetitive strains of *Staphylococcus aureus* that were isolated from clinical samples of patients admitted to different hospitals in Qazvin and Tehran during 4 years. Based on the statistical parameters of the study to determine the sample size, the number of samples is approximately 300 samples, which are randomly selected from each hospital.

- **The time and place of the study were not stated**

Response: Dear reviewer, Thanks for bringing this, to my attention, and the necessary changes are made in manuscript. The time and place of the study was added.

- **Inclusion/exclusion criteria were not explained**

Response: Dear reviewer, thank you for your attention. in this study, The inclusion criteria was all samples of *Staphylococcus aureus* isolated from the ICU and all outpatient and repeat patient samples were considered as exclusion criteria.

- **The sample size and its calculation formula were not stated.**

This number was based on the prevalence of 15% insensitivity and the confidence factor 95% and the accuracy 0.07 with values of α:0.5, d:0.07 and: 1,96 $Z1-\alpha/22$, the sample size was about 300; that Considering the limited resources and based on the conditions of the study and the amount of collected and accurate samples during this period, Therefore, the study started with 300 samples, but during the study we lost some samples and the study continued with 270 samples.

$$\frac{1.96 \times 15 \times (1-15)}{0.07^2} = 300$$

$$\frac{Z^2_{1-\alpha/2} \times P \times (1-P)}{d^2} = 300$$

P=١٥٪

d=٠.٠٧

α=٠.٥

Z_(1-α/2)^2=١.٩٦

Discussion

- **The main findings of the study were not indicated in the beginning of discussion.**

Response: Dear reviewer, I appreciate your suggestion about adding the main finding of the study in the biggining of discussion section and “According to this study, the most important findings included checking the frequency of isolates resistant to methicillin, vancomycin and linezolid in *Staphylococcus aureus* that isolated from clinical samples and checking the frequency of genes that cause resistance to them” added and it is highlighted in the manuscript.

- **The limitations of the study and suggestions were not addressed at the end of discussion.**

Response: Dear reviewer, some of the limitations and suggestions that existed in this study were given in the manuscript.

Sincerely yours

2 Revision 1

0 comments

No public comments in this round.