

Review of: "Nasal Carriage of *Staphylococcus aureus* and Antibigram among Medical Undergraduate Students of a Private University in Ogun State, Nigeria"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

Review on the article entitled '**Nasal Carriage of *Staphylococcus aureus* and Antibigram among Medical Undergraduate Students of a Private University in Ogun State, Nigeria**'

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The study is generally good and interesting however I think that the manuscript needs to be revised before it is publishable. There are some parts that are not clear which needs further clarification. Some grammatical errors were also observed in the manuscript.

ABSTRACT

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Some important information is found missing from the abstract section.

- 'A total of 200 nasal swabs were collected from the consenting study..' . The author did not state the total number of *aureus* cultures that were successfully isolated from these nasal swabs.
- "Percentage occurrence of *S. aureus* among the study participants was 34%'. Is this the answer to the previous question? If yes, then this sentence should come immediately after the first statement.
- 'Antibiotic sensitivity was performed by both disc diffusion and agar dilution methods'. The author should include the names of all the six antibiotics (with their concentrations) used in the study in this section.
- 'The 500 level students were the most colonized by MRSA strains with a prevalence of 66.6%'. This sentence is not clear. What does the 500 level refer to?

SAMPLE COLLECTION AND TRANSPORTATION

- 'Swab samples were collected aseptically from the nostrils of study participants'. It is not clear of how the swabbing was performed in the study. Please elaborate.

METHODOLOGY

- “For Vancomycin susceptibility testing, vancomycin injection was purchased and incorporated into Mueller Hinton agar at concentration of $\mu\text{g}/\text{m}$ ”. What is the concentration used?
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- “Briefly, using a sterile wire loop, 2- 3 well isolated colonies of test organism was be picked and emulsified in 5 ml of sterile normal saline’ What is the age of the colonies used? 18 -24hrs? Please also note that the sentence is grammatically incorrect.
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- Include the reference for the definition of resistant, intermediate and sensitive.
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- Why is there two sections on results in the article?
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- The method for agar dilution for vancomycin is rather confusing, best to rewrite this section.
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RESULTS

- Refer to Table 1. What does the level of study mean? Does the author refer to the semester or the year of the students involved in the study?
- Refer to Table 1. There was no explanation of the tribe in the methodology section hence the significance of such classification is unclear. The total number of the three tribes shown is 210 and not 200.
- The author needs to explain what it means by 100L, 200L, etc..
- How is the nose hygiene or nasal hygiene among the participants determined? On what context is nose hygiene defined; how do one determined if a person is practicing ‘nose hygiene’ or not? Any reference to this?
- Figure 3,4, 5, 6 and 7 are not properly labeled. These pictures should come first in the results section. The zones of *S. aureus* against vancomycin were not clear.

DISCUSSIONS

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The author tried to discuss by comparing with other studies however, the explanation on the findings is missing. There is no explanation or suggestions on why the carriage rate of MRSA was higher among females than the males or why the carriage of *S. aureus* and MRSA was highest among the age group of 21–25-year-olds. The significance of the tribes is not discussed as well and the ‘nose hygiene’ practice as claimed is unclear. The conclusion section needs to be revised as well.