

Name: Allison Jung

Series or Group sponsoring rounds: Department of Medicine Grand Rounds

Rounds Title: "Does this adult patient need blood cultures"

Presenter(s) name: Dr. Shaqil Peermohamed

Date: October 3rd, 2024

Please give a very brief overview of the subject presented:

Dr. Peermohamed talked about how a shortage in blood culture supplies lead to analysis of whether patients really need blood cultures or not. He presented different clinical scenarios and past studies to demonstrate the thinking process behind determining if blood cultures are necessary. He provided statistics on the usefulness of blood cultures, specifically how 90% of blood cultures don't grow any organisms. Although blood cultures are useful in diagnosing bloodstream infections, it's also important to make good use of medical resources. Dr. Peermohamed spoke about this along with an algorithm for determining if a recommendation for blood cultures would be appropriate.

What was the most useful or relevant piece of information you learned from the presentation?

I found it interesting to see how taking somewhat of a medical crisis (a lack of resources) lead to research being done on its necessity in the first place and then subsequently to changing practices in the medical field.

What questions remain in your mind at the end of the presentation?

I wonder if this can lead to possibly missing a diagnosis in the future. Although many of the blood cultures end up being negative, what is to say that that patient does not have an infection? I agree that we want to make smart choices in terms of using medical resources, but is there something which can be implemented to ensure the health and safety of patients still?

Do you envision being able to integrate any of the tools, theories, lessons into your own research project? If yes, please give a brief description. If no, please indicate why not.

I think that while my project does not directly relate to blood cultures, the analysis behind determining necessities of certain procedures is valuable to all research, including my own. Additionally, since my project involves using research to implement protocols in the medical field, I found that hearing the

process in which analyzing the necessity of blood cultures and implementing that in clinical practice was very interesting.

Do you feel this is an important topic/area of interest which should be considered for future versions of the ExpMed course?

I think this presentation topic was a really great demonstration of using evidence and research-based information to implement practices in clinical medicine settings. Therefore, although it was not focused on a specific methodology or study, I do think that this would be an interesting addition to the ExpMed course.

The format above is similar to a 1 minute paper. The purpose of this form is to help you reflect on the information you have learned during the presentation and consider how you can use this information in the future.

Please note that you will receive credit for rounds which you attend either in person or via videoconferencing. Please submit the completed form via Canvas.