Reviewer’s report

Title: Septicemia, necrotizing fasciitis, and peritonitis due to Vibrio vulnificus treated with early use of polymyxin B hemoperfusion in a patient undergoing CAPD: A case report

Version: 0 Date: 01 Dec 2019

Reviewer: Talerngsak Kanjanabuch

Reviewer's report:

This is an interesting case with good discussion on the related topic.

General revision

1) Please detail more on the patient's demographics and PD-related parameters, including, BW, PD prescription, PD vintage, RRF, dosage of ESA and iv iron therapy, etc.

2) There were 3 case reports of V. vulnificus-associated peritonitis in PD patients from different literatures (Kim et al., BMC Infectious Dis 2015; Wong et al, AJKD 2005; Jung et al, NDT 2007); all of the reported patients survived with a combination of ciprofloxacin and third generation cephalosporin without hemoperfusion. The beneficial effect of the hemoperfusion in the presented study might be extrapolated since the authors started the polymyxin B hemoperfusion at the same time as swapping the antibiotics and starting the CRRT. Moreover, the role of hemoperfusion in treatment of V. vulnificus septicemia is debated in the review literature.

3) What are the roles of HVPD or CEPD in this case?

4) Please detail on the patient's severity during the ICU admission, including SOFA score, APACHE, CAI, SAPII, etc.

5) If the proposed mechanism of the polymyxin B hemoperfusion is absorption of endotoxin. Do you have endotoxin levels before and after each treatment?
Specific revision

1) Please take care of the ref. in the manuscript, such as #4, #7, #8, etc.

2) Adding the figure in the case report will increase the readers' attraction.

Please confirm that you have included your review in the ‘Comments to Author’ box?
As a minimum standard, please include a few sentences that outline what you think are the authors’ hypothesis/objectives, their main results, and the conclusions drawn. Your report should constructively instruct authors on how they can strengthen their paper to the point where it may be acceptable for publication, or provide detailed reasons as to why the manuscript does not fulfill our criteria for consideration. Please supply appropriate evidence using examples from the manuscript to substantiate your comments. Please break your comments into two bulleted or numbered sections: major and minor comments.

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- Are the description of any error bars and probability values appropriate?
- Are all error bars defined in the corresponding figure legends?
- Has a sample size calculation been included, or a description and rationale about how sample sizes were chosen?
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