Reviewer's report

Title: On-line hemodiafiltration did not induce an overproduction of oxidative stress and inflammatory cytokines in intensive care unit-acute kidney injury

Version: 0 Date: 06 Apr 2017

Reviewer: Alexander Kirsch

Reviewer's report:

This observational study studied pre and post levels of various uremic toxins and inflammatory mediators in patients with sepsis induced AKI.

I believe a number of important pieces of information are missing.

Major concerns:

Important information about the dialysis treatments is missing. Total convection volume (Qb was 300 mL/min), treatment time.

Sessions were done with Qb=300mL, since all patients did not have previous CKD or HD dependency I assume they all had central veinous catheters as HD access. Was recirculation measured? It is questionable whether sufficient sub volumes were achieved during these kind of dialysis conditions.

The authors conclude that online IHDF can be used safely in septic AKI on the ICU. I do not believe this statement can be made on the basis of their data. This is an observational study without a comparison group and it is not known whether the same patients if placed on continuous RRT would not have experienced less hypotensive episodes.

Minor concerns:

The discussion needs to be expanded and it should be discussed why there was no decrease in the levels of circulating inflammatory markers (molecular size, clearance mechanism etc).
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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