Reviewer's report

**Title:** Cotrimoxazole plasma levels, dialyzer clearance and total removal by extended dialysis in a patient with acute kidney injury - Risk of under-dosing using current dosing recommendations

**Version:** 2  **Date:** 3 February 2013

**Reviewer:** Jeffrey Lombardo

**Reviewer's report:**

Thank you for allowing me to review your work. I found the case report interesting and informative. However, I have a few discretionary comments.

The comments in the conclusion suggest that the negative outcome of the patient was the result of an ineffective course of treatment using TMP/SMZ. However, it is very plausible that the demise of the patient was due to other bacterial and viral infections that occurred later in treatment. Therefore, the dosing regimen quite possibly could have been effective. In critically ill patients that do not behave in a normal physiological manner - the pharmacodynamic response to therapy is essential for adequate drug therapy choices. I strongly agree that additional PK/PD case studies and trials are necessary to validate the authors' conclusions in terms of adequate dosing for extended daily dialysis. Another comment to consider might be which form of dialysis is best suited for the critically ill patient in general and the literature to support these recommendations.

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests.