Reviewer’s report

Title: Dysnatremia, its correction, and mortality in patients undergoing continuous renal replacement therapy: a prospective observational study

Version: 1 Date: 21 September 2015

Reviewer: Sagar U. Nigwekar

Reviewer’s report:

Authors address an important and well-defined question regarding association between dysnatremia and its correction with short term mortality in critically ill population undergoing CRRT. The methods are appropriate and well described for this observational study. The findings of lack of association between correction of dysnatremia and mortality are rather provocative since clinical practice at present is based on the assumption that rate of sodium correction is an important predictor of outcomes.

Major compulsory revision:
None

Minor essential revision:
My only concern is as follows: Most robust data regarding rate of sodium correction and outcomes are for neurological outcomes and in that regard authors should either report cause specific mortality for neurological conditions and/or incidence of neurological events. If these data are not available then authors should acknowledge this as a limitation.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
None