Reviewer's report

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

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Reviewer: Tae-Hyun Yoo

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The manuscript by Han et al. examines the impact of dysnatremia on all-cause mortality in patients undergoing continuous renal replacement therapy (CRRT). Patients were divided on the basis of serum sodium concentrations measured at baseline, 24 hours, and 72 hours after application of CRRT. Subsequently, 30-day mortality was analyzed by classifying patients as moderate to severe or mild hyponatremia/hypernatremia, while the normonatremia group was used as reference. This study demonstrated the well-known associations between dysnatremia and mortality in CRRT patients. The present study is interesting but has some issues to be addressed:

1. Confounding factors including for multivariate analysis should be mentioned in the manuscript and table.
2. During the follow up, does any difference in mortality rate according to unchanged sodium groups? Rather than evaluating the impact of changes in sodium levels, author can analyze the mortality rate in three groups such as hypo-hypo, normo-normo, hyper-hyperNa groups. If possible, readers can understand the impact of sodium on the mortality rate in this population.
3. Please describe mortality rate according to sodium groups.
4. Were all the patients positive I/O balance?

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'