Reviewer’s report

Title: Impact of thyroid function on Cystatin C in detecting acute kidney injury: a prospective, observational study

Version: 0 Date: 19 Aug 2018

Reviewer: Moritz Schanz

Reviewer's report:

This is an important study looking at the impact of thyroid hormones on diagnostic accuracy of serum Cystatin C in detecting AKI - that's very interesting and original, because larger studies are lacking. The presented data are very informative from a scientific point of view and bring new information about the association between thyroid hormones, Cystatin C and AKI diagnosis.

- eGFR-Formula: Why did you use the MDRD-Formula for eGFR calculation? CKD-EPI seems to be more reliably in reflecting the real GFR in eGFR around 60 ml/min. (PMID: 22560843).

- It would interesting if you could report in how many patients AKI diagnosis was based on serum creatinine, on urine output or both.

- Would it affect your results excluding those with exclusively urine output-based diagnosis?


- Minor point: Page 17 line 313: Looking at your reference list, it seems that you mean Schanz et al. instead of Moritz et al.

Nevertheless the message is clear, statistical methods are appropriate and the paper is well written. I think after some clarifications (see above) this manuscript could be accepted with clear conscience.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

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

Yes

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

Yes

**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 recommend additional statistical review

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

Acceptable

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