Reviewer's report

Title: Detection of decreased glomerular filtration rate in intensive care units: serum cystatin C versus serum creatinine

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Reviewer: Sebastjan Bevc

Reviewer's report:

Delanaye and co-workers presented interesting observation. They performed study in critically ill patients at Intensive care units and discussed different GFR markers for detection of decreased kidney function in this population. The authors used correct methodology, found some very interesting results and added some novelty to the knowledge of already available information in this field. Therefore, presented manuscript could be accepted for publication in BMC Nephrology after revision.

Major Compulsory Revisions
1. Authors should explain the abbreviation SOFA.
2. Authors should explain the creatinine cut-off for inclusion criteria (why 133 micromol/L).
3. Bland Altman analysis and accuracy, percentage of estimates within 30% of measured GFR [P(30)] are missing.
4. Results of bias, precision, accuracy should be discussed.
5. Since mean level of measured GFR was > 90 ml/min, higher cut-offs for analysis would be appropriate also (like 90 ml/min).
6. Basic characteristic of patients are insufficient, ethnologies of critically ill patients are missing.
7. Authors should define the steady state condition of critically ill patients.
8. How many patients were underweight, comparison between the patients regarding BMI would be interesting.

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.