Reviewer’s report

Title: Prognosis of AKI in malignant diseases with and without sepsis

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Reviewer: Sebastian Dolff

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The present well written manuscript by Heeg et al. deals with acute kidney injury (AKI) admitted to a single centre ICU. 1017 patients were retrospectively analysed according to an underlying malignant disease. Acute kidney injury was defined according to the AKIN criteria. The authors found that a malignant disease is an additional risk factor to sepsis and AKI. The data are sound but minor issues should be addressed.

As the authors state on page 4 in the introduction patients with hematologic disease are at risk to develop an AKI due to their disease and to their potentially nephrotoxic treatment. What was the underlying disease? How many patients had a bone marrow transplant recently which is a risk factor per se? It would be interesting what the baseline creatinine before the AKI occurred. Additionally, the KDIGO guidelines of 2012 classified the AKI in 3 stages. This information would be helpful for the patients enrolled. A table with these information should be included.

Regarding the results one result is worrying „no sepsis, no AKI and no sepsis with AKI patients had both a mortality of 15 % (page 9, line 6). That does not fit with the introduction that AKI increases mortality in hospitalized patients. The authors should discuss that result at least in the manuscript.

All in all the data are descriptive but interesting and the presentation clear.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

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