Reviewer's report

Title: Severe paraneoplastic hypereosinophilia in metastatic renal cell carcinoma

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Reviewer: Carsten Kempkenstetten

Reviewer's report:

The manuscript entitled „Severe paraneoplastic hypereosinophilia in metastatic renal cell carcinoma“ by Todenhöfer T. et al. represents the first reported case of paraneoplastic hypereosinophilia in a renal cell cancer patient.

This case report is interesting from a scientific as well as from a clinical point of view. It is well written and tables and figures are comprehensive. However, minor essential revisions are recommended before publication of the manuscript:

1. The authors should clarify, whether the tumor really "infiltrated the vena cava" or whether they mean the presence of a tumor thrombus (level ?). I suggest to show a representative CT-scan of the primary ,either as an additional figure or as a replacement of Figure 1 ,which appears to be of minor interest. Moreover, the status of the resection margins following radical nephrectomy is missing and shoud be added to the TNM-status.

2. To better characterize the patients risk profile, the authors are encouraged to state the Motzer Score or Heng criteria.

3. I would suggest, that the therapeutic concept for cystoreductive treatment of leucocytosis and hypereosinophilia was developed in close collaboration with medical oncologists. If so, the authors should mention that.

4. The authors do not give any explanations or suggestions, why the count of WBCs steadily increased following the resection of the primary. This aspect should be discussed, at least briefly, in the discussion section of the manuscript.

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.