Reviewer's report

Title: Prognosis and therapy of tumor-related versus non-tumor-related status epilepticus: a systematic review and meta-analysis

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Reviewer: Marco Riva

Reviewer's report:

The manuscript addressed a highly interesting topic in the clinical practice of neuro-oncology, encompassing distinct specialities.

It also looked into the available literature for the most robust evidence in this regard.

The research questions are nicely clarified in the introduction as well the clinical and biological premises. They are then followed by clear outline of the research methods.

The authors well acknowledged the paucity of the available results to perform a wide meta-analysis, and this is stated in the final remarks.

One limitation, which is possibly due to the original reports searched and analyzed, is that brain tumours are considered as a whole entity, while, for instance, intra-axial lesions can have distinct epileptogenic behaviour compared to extra-axial lesions.

In addition, the role of the different therapeutic options (surgery, radiation therapy, chemotherapy) is not considered nor mentioned.

Despite the actual results are apparently poor, since no robust conclusions can be drawn to reply to the original research questions given the limited number of heterogenous studies included, points of interests can be found in the current manuscript, which are the following:

- it pushed the continuous effort for refining current clinical practice towards evidence-based decisions
- it stresses the need to further refine the understanding of the clinical and biological aspects of tumour-related epilepsy
- it underline the need to specifically address the therapeutic power of the different commercially available compound, compared to the effect of the different therapeutic options.

Therefore, I think the manuscript to deserve publication to support the discussion and the research in this field.

Level of interest: An article whose findings are important to those with closely
related research interests

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I have nothing to disclose