Reviewer's report

Title: Carbamazepine reduces memory induced activation of mesial temporal lobe structures: a pharmacological fMRI-study

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Reviewer: Dr Hermann Stefan

Level of interest: not specified

Advice on publication: Other (see below)

The manuscript contains an interesting topic. The reduction of memory induced activation of mesial temporal lobe structures by carbamazepine: a pharmacological fMRI-study.

The paper is written in clear and well-structured English.

It is not clear in which percentage there is a correlation of activated voxels and type of lesions demonstrated by high resolution MRI or even histology after epilepsy surgery.

The next question concerns the influence on polytherapy because more severe epilepsies might have more cerebral damage and pathology and might be treated more often with polytherapy or with higher dosages. It would be interesting finally if the spatial visual memory was tested and if this function was correlated with the CBZ-levels.

Competing interests:

None declared.