Reviewer’s report

Title: Case Report: GABAB receptor encephalitis in a patient diagnosed with Amyotrophic Lateral Sclerosis

Version: 1 Date: 03 Jun 2018

Reviewer: Tim Hagenacker

Reviewer’s report:

The authors describe an interesting case which addresses a clinically relevant question. If there are new forms of ALS-phenotypes which are caused by autoantibody production this suggests immunotherapies as treatment option.

Although the manuscript describes the case in detail, I have some concerns that has to be added, or addressed in the discussion.

Has a tumor been ruled out by other methods, than CT-scan? PET? Autopsy? Breast radiography?

Has a immunofixation been performed to rule out a lymphoma which is known to cause ALS-phenotype as well?

Please give where GABA-B ab has been tested? In which laboratory, which assay has been used?

Minor:

1. 39-40: I think here is meant nerve conduction studies as well as myogram. In detail a electromyogram does not offer insights in sensory nerve function.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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