Reviewer’s report

Title: Progressive multifocal leukoencephalopathy associated with thymoma with immunodeficiency: a case report and literature review

Version: 0 Date: 22 Jan 2018

Reviewer: Jin Nakahara

Reviewer’s report:

This paper describes an important case of PML occurrence in a patient with MG, concomitantly with the development of GS.

1) The authors' suggestion that "neurologists should keep in mind the risk of development of PML in MG patients with thymoma, even if MG symptoms are in remission, and evaluate the immunological status of the patients" provide a particularly important insight into daily clinical management of MG patients. However, it is unclear to this reviewer whether if PML could have been avoided in this case when immunological status was regularly evaluated as the authors suggest. How often GS occurs in MG patients, and when GS was diagnosed what should we do to avoid PML? Should immunological surveillance be considered even in MG patients without thymoma? What kind of immunological evaluations are necessary to avoid PML; I understood that "the incidence of hypogammaglobulinemia in patients with thymoma is 6-11%," but could this also be a risk for PML in addition to GS and if so what should we do?

2) Were there any (clinical or radiological) signs of IRIS in this patient?

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

Unable to assess

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

Acceptable

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