Reviewer’s report

Title: “Neuromyelitis optica spectrum disorder with massive basal ganglia involvement: a case report”

Version: 0 Date: 10 Nov 2019

Reviewer: Marco Capobianco

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The paper by Shinji Ohara and colleagues describes the pathological features of brain lesions occurring in an old woman affected by NMOSD and died after a large acute lesion of the basal ganglia.

In particular the description of the lesion shows pathological characteristics of NMO (inflammatory infiltrates, loss of AQP4 and GFAP, deposition of complement) that allow the author to make the diagnosis of NMOSD acute lesion insted of stroke, as initially described on the basis of the brain CT.

No original findings have been found and described but the involvement of basal ganglia is rarely described in NMOSD and the paper has the importance of pathologically describe a large basal ganglia lesion occuring in a NMO patient.

More important, the authors open the question whether an ischemic injury could facilitate and enhance the damage linked to anti-AQP4 antibodies deposition.

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.

Yes

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

Yes

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Not relevant to this manuscript

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

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