Reviewer’s report

Title: Neuromyelitis Optica Spectrum Disorder with Increased Aquaporin 4 Microparticles Prior to Autoantibodies in Cerebrospinal Fluid: A Case Report of a PANDAS patient

Version: 0 Date: 12 Oct 2018

Reviewer: Hernando Raphael Alvis Miranda

Reviewer's report:

1. Do you believe the case report is authentic?
   Yes

2. Do you have any ethical concerns? Please consider if local Institutional Review Board approval or ethical approval was obtained (if appropriate) and if the patient (or their parent or guardian in the case of children under 18) gave written, informed consent to publish this case and any accompanying images. A statement to this effect should appear in the manuscript.

   Comments: I consider no ethical issues/problems.

3. Does the Introduction explain the relevance of the case to the medical literature?
   Yes

4. Does the article report the following information? Where information is missing, please specify.

   a. The relevant patient information, including: Yes, in a very well description-manner
      - De-identified demographic information (age, gender, ethnicity)
      - Main symptoms of the patient
      - Medical, family and psychosocial history
      - Relevant past interventions and their outcomes

   b. The relevant physical examination findings: Yes, in this particular case, the patient had a myriad of neurological problems, that were well described through the manuscript
c. Important dates and times in this case (if appropriate, organized as a timeline via a figure or table); if specific dates could lead to patient identification, consider including time relevant to initial presentation, i.e. initial presentation at $T = 0$, follow up at $T = 1$ month: The evolution of the neurological problems were described in a "date by date" way, so the natural history if the disease, was clearly stated.

d. Diagnostic assessments, including:

- Diagnostic methods: Yes
- Challenges (e.g., financial, language/cultural): Yes
- Reasoning and prognostic characteristics (e.g., staging), where applicable: Yes

e. Types and mechanism of intervention: Yes

f. A summary of the clinical course of all follow-up visits: Yes

Comments:

This is a neurological case report in regard Neuromyelitis Optica Spectrum Disorder, in a patient with a broad semiology, in a date by date manner the author refers the evolutive manifestations of the problem until the diagnosis, and more importantly making emphasis in paraclinic data that is not usually performed.

5. Is the interpretation (discussion and conclusion) well balanced and supported by the case presented?

Comments: Yes, the discussion cover all the issues related to the neurological deterioration and amelioration in this patient

6. Is the anonymity of the patient protected? Please consider any identifying information in images such as facial features or nametags, whether the patient is named etc. If not, please detail below.

Yes
7. Is the Abstract representative of the case presented?

Comments: Yes

8. Does the case represent a useful contribution to the medical literature?

Comments: Yes, particularly because arises the awareness of physio-pathological phenomena that are not clearly understood

9. Additional comments for the author(s)?

Level of interest
Please indicate how interesting you found the manuscript:

An article of importance in its field

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

Acceptable

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

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Were you mentored through this peer review?

No