Reviewer's report

Title: Anti-N-methyl-D-aspartate Receptor Encephalitis Associated with an Ovarian Teratoma: Two Cases Report and Anesthesia Considerations

Version: 4 Date: 9 August 2015

Reviewer: Maribel Acién

Reviewer's report:

MAJOR REVISION

Abstract-Background: “Ovarian teratoma is the only confirmed tumour associated with anti-NMDAR antibodies”. The anti-NMDAR syndrome although initially associated to tumours in the ovary, it has now been described in men and in children.

Abstract-Keywords: “Teratoma” is missing.

Case presentation: Because the title is “case presentation and anaesthesia considerations”, more emphasis should be done in the description of the cases. I am missing the difficulties in reaching the diagnosis, delay and specially, the surgical piece pathology (oophorectomy vs tumour resection, tumour size, histology…)

Discussion: It is mentioned that propofol inhibits NMDAR and that anaesthetics that act at NMDAR should be avoided, but this is one of the anaesthetics that was used in the cases. Further discussion on this point would be interesting.

Table 1-Case 2: Pelvic ultrasound and pelvic MRI are opposite. Also, in the case presentation patient is said to have been operated the 9th of June, but in the Table the NMDAR determinations and examinations are said to have been done afterwards. And finally, it is said patient rejected being tested BEFORE discharge.

MINOR REVISION

There are English misspelling words along the text and some sentences are missing the verb or part of the text, making it not completely meaningful.

Case presentation: It would be easier to follow the complete presentation of one case and then of the other.

Discussion: First paragraph- The sentence ”Ectopic NMDAR expression damages immune tolerance, eventually leading to anti-NMDAR encephalitis” should come earlier in the paragraph. Second paragraph- First sentence is missing the verb or part of the sentence. And lines 142-144, reference [14] second time, is meaningless.

Figure 1: B: Generalized –activity.

Level of interest: An article of limited interest
Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare that I have no competing interests