Reviewer's report

Title: Status epilepticus induced by treatment with dopamine agonist therapy for giant prolactinoma: a case report

Version: 0 Date: 15 Nov 2018

Reviewer: Joyce Jimenez-Zambrano

Reviewer's report:

This is a case report describing a rare complication for a male with a giant prolactinoma. The manuscript includes relevant details so that reader may understand what occurred throughout the case, and the literature review is sufficient to provide education on the diagnosis, treatment and the management of seizures after an adverse reaction due to a rapid reduction of a giant prolactinoma induced by a dopamine agonist.

As far as the greater structure of the paper, it is presented in a logical manner overall. There are minor grammatical issues that I address below, but otherwise, the case sequence is easy to follow. The abstract is a good representation of the case itself. The discussion and conclusion sections were well structured.

Specific suggestions are noted below:

Page 2, line 23: recommend that you change "Dopamine agonist is" to "Dopamine agonists are".

Page 2, line 23: recommend that you change "systemic convulsion" to "general seizure".

Page 2, line 33: recommend that you change "following rapid reduction of the tumor." to "following the rapid reduction of the tumor.".

Page 2, lines 34-35: recommend that you change "We speculated that rapid reduction of the tumor resulted in retraction of the surrounding brain structure and the epileptic seizure was then induced by dopamine agonist therapy." to "We speculated that the rapid reduction of the tumor resulted in the retraction of the surrounding brain structure and the epileptic seizure was then induced by dopamine agonist therapy."

Page 4, lines 68-70: to improve clarity, change "A 27-year-old man with mental developmental retardation presented with a 1-year history of visual disorder of the bilateral eyes as well as gradually progressive general fatigue for 3 months. There was no history of epileptic seizures." to "A 27-year-old man with (INSERT MILD, MODERATE OR SEVERE) mental retardation presented with a year history of bilateral visual impairment as well as a 3-month gradually progressive general fatigue. There was no history of epileptic seizures."
Page 4, lines 74-75: to improve clarity, change "from the pituitary and extended to the bilateral anterior skull base," to "from the pituitary and extended bilaterally through the anterior skull base,"

Page 4, line 77: What was the dosage of levetiracetam used for seizure prophylaxis?

Page 4, lines 85-86: recommend that you change "Eight days after starting DA therapy, he had a tonic-clonic seizure with a loss of consciousness that shifted to status epilepticus." to "Eight days after starting DA therapy, he had a tonic-clonic seizure with loss of consciousness that developed into status epilepticus."

Page 4, lines 86-87: to improve clarity, change: "Incubation and general anesthetic therapy were required and entered to intensive care unit." to "Incubation and general anesthetic therapy were required. The patient was admitted to the intensive care unit.".

Page 4, line 87: Add "was" after "Electroencephalogram examination".

Page 4, lines 88-89: recommend that you change "There was no abnormality which cause the status of epilepticus in the laboratory analysis" to "There was no abnormality which may have led to status epilepticus in the laboratory analysis".

Page 5, line 93: recommend that you change "shrinkage" to "reduction".

Page 5, line 94: recommend that you change "the hyperintense area" to "a hyperintense area".

Page 5, line 111: recommend that you change "drug for DA therapy" to "a drug for DA therapy".

Page 6, lines 118-119: to improve clarity, change: "According to attached document of CAB, neurologic and psychiatric side effect were somnolence, aggression and psychotic behavior." to "According to the attached document regarding CAB, neurologic and psychiatric side effect were somnolence, aggression, and psychotic behavior.".

Page 6, lines 125-126: to improve clarity, change: "The mechanism of epileptic seizure in this case is speculative and may be multifocal." to "The mechanism of the epileptic seizure, in this case, is speculative and might be multifocal.".

Page 6, lines 130-131: recommend that you change "The appearance of hyperintense area in left frontal lobe on T2-weighted images may support our hypothesis of the pathogenic mechanisms of epileptic seizure in this case." to "The appearance of a hyperintense area in left frontal lobe on T2-weighted images may support our hypothesis on the pathogenic mechanisms of the epileptic seizure in this case."

Minor recommendations:

1. I would add a table for the laboratory values.
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