Reviewer's report

Title: An unusual case of infective pneumocephalus: case report of pneumocephalus exacerbated by continuous positive airway pressure

Version: 1 Date: 22 Nov 2017

Reviewer: Mats Lindberg

Reviewer's report:

This version is better, but you still need to work on it.
Firstly the article needs a thorough language check.

For instance:
Page 3,
line 31: There was no "growth" of S. salivarius, but a finding of the bacteria via PCR.
line 33: How do you know the "growth" of S. salivarius was exacerbated by CPAP?
line 35: Did the patient really eliminate the causative factors? How did she do that?
line 40-42: Why do you use Capital letters for Metronidazole and Teicoplatin but not for ceftriaxone?
Page 5
line 58-60: You write: "A mechanism of irritation meriting further discussion include the exacerbating effects of assisted breathing devices..." The sentence is long, hard-to-read and I don't think it adds value. I think you should delete it.
Page 6
line 28: Have CPAP been linked to traumatic pneumocephalus?? Or do you mean atraumatic pneumocephalus?
Page 7
line 26: "a history of presenting symptoms" - why don't you just write "presenting symptoms".
Page 8:
line 49: "Findings for the lumbar puncture revealed a turbid fluid...". Why don't you just write: "Lumbar puncture revealed turbid fluid..."
These are just some examples: There are very many of this kind of linguistical problems and also many spelling errors.

I suggest you:
1. Focus on the serious CNS-infection with S. salivarus and the probably causative association with CPAP, and that (if I undertand you right) the finding of pneumocephalus indicates that there might be a sinus wall osteomyelitis causing a valve mechanism instead of hematogenous spread.

2. Shorten the article - delete all Words, sentences and sections that don't add value. I think cut at least 30% of your letters.

3. Have a thorough language check by a person that is trained in written English.

4. Drop the part about neurogical symptoms being a challenge in the ED-unit.

**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.
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?**
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