Reviewer’s report

Title: Watch out for the special location of intraventricular silicone oil following an intraocular tamponade - a 10-year follow-up case report based on CT/MRI.

Version: 0 Date: 27 Sep 2019

Reviewer: Yau Kei CHAN

Reviewer's report:

Cao et al. conducted a unique and interesting study on a case of intraventricular silicone oil with a 10-yr follow-up. The finding based on CT/MRI showed an important finding which silicone oil, after migrating to the brain, can keep moving around within the brain and affects different body's functions.

The authors need to clarify the following questions to make the paper being accepted:

- In the case presentation, the authors did not stay clear whether the silicone oil has been stayed in the eye for the entire study period. If the oil was left in patient's eye, may the authors please explain the reason why the oil has not been removed since leaving silicone oil in the eye will expose to the risk of emulsification, which may be the reason why silicone oil can be found in the brain in this case.
- Can the volume or mass of the intraventricular silicone oil detected by CT/MRI be estimated?
- On page 3, line 22, please clarify what "density" of silicone oil and "impressive" changes mean.
- The authors mentioned on page 3, line 32 "that silicone oil droplets 'in lens' could migrate to retina…". Why did the authors so confident that the silicone oil droplets were from the lens? Are there any results supporting this? Also, can the authors comment how big the size of silicone oil droplets can migrate to retina or optic nerve or brain?
- Please elaborate what "binding degree of silicone oil to water molecules" as stated on page 3, line 46 means.
- In the discussion about the results from Fig.5, the authors suggested that silicone oil keeps moving around within the brain. It would also be interesting to know if there was a change in the total amount of silicone oil in the brain. Can this be estimated by calculating the sum of the CT values at each time point?

There are other minor issues including:
- In the background, the authors mentioned that silicone oil has been used for over one century. Indeed, silicone oil has only been used since 1962 by Cibis et al. Please revise.
- May the authors please check the spellings very carefully throughout the manuscript. The word "intraventricular" has been misspelled as "intaventricular" for many times including the one in the title. Please also make sure the manuscript is free of grammatical errors.
- Figure 5 needs to be significantly improved. The labelings of both x- and y-axis with units were missing. The design on the figure gives an impression that the authors did not prepare it attentively.

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?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

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

Acceptable

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