Reviewer’s report

Title: Fulminant encephalopathy in a child with hyperferritinemic sepsis: a case report

Version: 0 Date: 22 Nov 2019

Reviewer: Takeshi Yoshida

Reviewer's report:

The authors described a case of 5-year-old girl with sepsis-associated encephalopathy (SAE) and her characteristic MRI findings on day 1. Since sepsis is life-threatening condition, we usually have no chance to obtain MR images during the early course. Thus, the MR images showed in this manuscript are valuable. In addition, it is surprising that her prognosis is excellent for sepsis with encephalopathy. This report shows the possibility of the usefulness of anti-hypercytokinemia therapy in SAE. From these reasons, I think this manuscript is worth publishing. However, the authors should respond to the points listed below before publication.

1. The authors showed characteristic MRI findings on day 1 in Fig. 1. For better understanding of pathogenesis, it would be better if the authors show other MRI sequences, including apparent diffusion coefficient (ADC) mapping on day 1 and discuss the pathogenesis based on the ADC mapping. ADC mapping is very useful to consider the pathogenesis of the brain lesion with high intensities in DWI.

2. How was CRP in the second blood test? Preferably, the authors should show the same combination of items in several blood tests.

3. The authors used many uncommon abbreviations without defining them; for example, CRRT, AKI, CLS, CVVH, and so on. The authors should define all the abbreviations used in the manuscript.

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

Acceptable

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