Reviewer’s report

Title: Toxicity of insulin-derived amyloidosis: a case report

Version: 0 Date: 14 Apr 2019

Reviewer: Akinobu Nakamura

Reviewer's report:

Authors described the case of toxic insulin-derived amyloidosis. Histological and immunohistochemical studies showed that the mass had typical characteristics of amyloid and necrotic findings were seen adjacent to the amyloid deposit in this case. Furthermore, the amyloid tissue of the present case showed significant toxicities against both HEK293T cells and HeLa cells compared to the control skin tissue. This case report is interesting in essence. There are, however, some points which should be addressed for publication in this journal.

Specific comments

Criticism 1: Please describe the type of insulin preparation in Table 1.

Criticism 2: Please provide the photographs of skin findings.

Criticism 3: In the toxicity studies, Student's t-test is inappropriate.

Criticism 4: "Additionally, the two samples from Case 5 showed more significant toxicity than the four other samples." Are there any significant differences in cell viability between the two samples from Case 5 and the other four samples (Case 1-4) both in HEK293T cells and HeLa cells?

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No
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.

I am able to assess the statistics

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

Acceptable

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