Reviewer's report

Title: Case Report of One month and 15 days old baby with Type V Hyperlipoproteinemia

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Reviewer: Takatoshi Anno

Reviewer's report:

In this manuscript, the authors reported a case of one month and 15 days old baby with marked hypertriglyceridemia (serum TG 31,400 mg/dl). Such a very severe hypertriglyceridemia was rare case. The authors diagnosed the infant as Familial Chylomicronemia Syndrome (FCS) with ratio of triglycerides to total cholesterol, refrigerator test and FCS diagnostic score system without genetic testing. However, this report includes several problems that should be addressed.

1. It seemed that the serum TG levels was measured with diluted sample. It was rare that serum triglyceride level was 31,400mg/dl. Therefore, authors should describe more details data of another dyslipidemia marker (for example LPL activity, RLP-Cholesterol, ApoII-C and lipoprotein fractions etc.) for diagnosis of FCS without genetic testing.

In addition, please provide laboratory data (peripheral blood, blood biochemistry and urinary test) with another Table.

2. In many case, primary FCS were caused by disorder of metabolisms of chylomicron. Therefore, chylomicron's metabolisms markers of subject with FCS were deficiency or decreased even improved and/or decreased triglyceride levels.

Another did not perform genetic test, therefore they should describe that point with limitation, and provide current chylomicron's metabolisms markers for diagnosis of primary FCS.

3. The patient was dramatically improved triglyceride level at 2 months. Did triglyceride level improve after Cholesystramine therapy? It was not clear the relation improved triglyceride and therapy.
Authors should describe more details for education of Dietary Modification and describe more details the Cholesystramine therapy (from when Cholesystramine therapy was started etc.).

4. On DISCUSSION AND CONCLUSION session (line 208-217), the authors describe similar case reported. However, these reports were very severe hypertriglyceridemia which they did not perform genetic test. I think that most important point of this case reports were very severe hypertriglyceridemia caused in infant and improved with Dietary Modification and Cholesystramine therapy.

Please discuss this point on DISCUSSION AND CONCLUSION session.

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

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Please indicate the quality of language in the manuscript:

Needs some language corrections before being published
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