Reviewer’s report

Title: Low Prevalence of Lipid Metabolism Abnormalities in APOE ε2-genotype and Male Patients 60 years or older with Schizophrenia

Version: 1 Date: 12 Apr 2017

Reviewer: Perrie Adams

Reviewer’s report:

I have two major concerns regarding this manuscript:

1. You have not defined the criteria used to determine 'Senile' sample. It appears to be based on age but there is no description of how senility was defined. Without knowing the nature of the cognitive state and what the underlying neuropathology may be it is difficult to interpret your conclusions.

2. The conclusion that the ApoE 2 genotype is significant is based on only 2 subjects having the 2/2 genotype. This makes interpreting the results difficult.

There is a huge literature on the role of apoE genotypes on LDL and cholesterol in a variety of patient populations in a range of age groups as well as different disease conditions.

Given the concerns identified above I do not feel this study adds to the scientific literature on the role of ApoE genotypes in schizophrenia or 'senility'.

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.

Unable to assess

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 recommend additional statistical review

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

Acceptable

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