Reviewer’s report

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

Version: 2 Date: 20 Jun 2017

Reviewer: Alena Buretić-Tomljanović

Reviewer’s report:

1) The authors improved their manuscript regarding language and other technical details.

2) There is an error in Table 2: "APOE genotype" should change its position in the Table Heading.

3) There is still a problem with sex effect. The authors showed significant differences between males and females regarding lipid markers (page 10). The mean LDL value reported for females is even higher than any group value (Table 3). Their results (Table 4) show significant effect of male sex, ApoEε2-genotype and atypical antipsychotic use on lipid markers. It means that ApoEε2-genotype was associated with significantly lower lipid values in male subjects (page 11, lines 224-226: "The results showed that male gender was a protective factor for abnormal cholesterol status and abnormal low-density lipoprotein status (odds ratio 226 [OR] = 0.366 and 0.563, respectively."). Therefore, I suggest authors to point out sex effect and to modify the manuscript title: "....in male ApoEε2-genotype Senile Patients with Schizophrenia".

4) Table S1 seems unnecessary to understand the data because all conclusions given in lines 216-228 can be deduced from Table 4.

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.

Yes

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?

Yes
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

**Declaration of competing interests**
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests.

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license ([http://creativecommons.org/licenses/by/4.0/](http://creativecommons.org/licenses/by/4.0/)). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal