Reviewer’s report

Title: Effects of Homocysteine on White Matter Diffusion Parameters in Alzheimer's Disease

Version: 0 Date: 14 Jun 2017

Reviewer: Pradip Kumar Umar Kamat

Reviewer's report:

The manuscript by Lee et al entitled "Effects of homocysteine on different White Matter diffusion parameters in Alzheimer's Disease" is well designed and significantly relevance for understanding of AD pathogenesis. As per clinical point of view manuscript is well presented. Only I can see that plasma concentration of homocysteine greater than 14 μM increases the risk of Alzheimer disease (AD). While the investigator only found the level 12.7 ± 4.4 μM which is not so upregulated in observed AD patients (data Table 1). Authors also found that Homocysteine level not relate directly to cognitive impairment in their study may be because of not sufficient upregulation of plasma homocysteine level. Hence how the study established the effects of homocysteine on different White Matter diffusion parameters in Alzheimer’s Disease is not making clear interpretation.

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.

No

Are the conclusions drawn adequately supported by the data shown?
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Unable to assess

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