



April 30, 2014

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 10405-revised.doc).

Title: Glaucoma and Alzheimer's disease: their clinical similarity and future therapeutic strategies for glaucoma

Author: Tetsuya Sugiyama

Name of Journal: *World Journal of Ophthalmology*

ESPS Manuscript NO: 10405

The manuscript has been improved according to the suggestions of reviewers:

1 Format has been updated

2 Revision has been made according to the suggestions of the reviewer

Reviewer 00505106

1- Abstract: "Since normal tension glaucoma (NTG) is the most common glaucoma in Asia," It does not seem to be correct. NTG is the most common type of glaucoma in Japan and with regard to the China population; the most common type seems to be PACG.

Answer: Thank you for your appropriate suggestion. I changed the sentence in the Abstract.

2- In the review manuscripts, it is not common to include figures from the past works of authors.

Answer: Your comment might be correct in case of ordinary review articles. But I think including figures of authors can be accepted since this is "topic highlight", not a usual review article. In addition, as another reviewer suggested, including these figures enable readers can understand the topic more easily. I also added new figures only for this article. Therefore, I dare to keep these figures in spite of your comment.

3- CEREBRAL BLOOD FLOW (CBF) IN GLAUCOMA AND AD: a-"Impaired cerebral autoregulation might contribute to an increased risk of cerebrovascular disorders in glaucoma patients." This statement needs a reference.

Answer: Thank you for your comment. This statement is related with the reference just before it. So I added "They suggested that" in this statement.

b-The last paragraph in this section needs to be re-written.

Answer: As I answered to your comment #2, I would keep this paragraph as it is.

4- NEW THERAPEUTICAL STRATEGIES FOR GLAUCOMA: "Several types of new therapeutic strategies for glaucoma have been suggested on the basis that similar pathological mechanisms underlie neuronal death in both AD and glaucoma." As far as I am concerned, Alpha-2 agonists do not seem to be new therapeutic strategy for glaucoma therapy.

Answer: Thank you for your appropriate comment. Alpha-2 agonists might not be a new

therapeutic strategy in many countries except Japan. So I changed “NEW THERAPEUTICAL STRATEGIES....” into “RECENT THERAPEUTICAL STRATEGIES....”

Reviewer 00505222

1. “NTG is the most common type of glaucoma in Asia” may not be correct. It is true in Japan and South Korea but not in other population.

Answer: Thank you for your appropriate suggestion. I changed the sentence into “NTG is the most common type of glaucoma at least in Japan and South Korea” and revised the references regarding this point.

2. In figure 1A and 1B, it is better to show 3 types of SPECT study : normal SPECT study, SPECT of AD patients and SPECT of NTG patients with AD-like cerebral perfusion pattern. Without SPECT of AD patients, readers can not know how similar glaucoma and Alzheimer’ disease are.

Answer: Thank you for your constructive suggestion. I added SPECT of AD patients in Fig. 1 as you suggested.

3 References and typesetting were corrected

Thank you again for publishing my manuscript in the *World Journal of Ophthalmology*.

Sincerely yours,

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