Reviewer’s report

Title: Macular retinal and choroidal thickness in unilateral amblyopia using swept-source optical coherence tomography

Version: 0 Date: 12 Jun 2017

Reviewer: Jinling Xu

Reviewer’s report:

1. page 7 line 6th: “spherical interocular difference in refraction of less than 2.0 D”, was it spherical interocular difference in refraction or spherical equivalent?, please clarified.

2. The scan length reported by SS-OCT systems in mm is calibrated to a model eye with fixed axial length. Anisometropic amblyopic eye included in the study was associated with shorter axial length than in normal controls and the fellow eye. And, as a result, shorter axial length, affects the lateral scale of all OCT data sets. For a hyperopic eye, the prediction would be measurement of greater CT due to minification relative to the model eye. To obtain accurate measurements along a lateral scale (i.e., 1.5mm, 6mm) from SS-OCT data, one must incorporate individual axial length correction (Wagner-Schuman et al IOVS 2011).

**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.

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.

I am able to assess the statistics

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