Reviewer's report

Title: Quantitative relations between the eyeball, the optic nerve, and the optic canal important for intracranial pressure monitoring

Version: 2 Date: 1 July 2014

Reviewer: Samson Gwer

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This study attempts to determine the normal values of the eyeball, optic nerve and optic canal measurements, and explores various quantitative relationships of the same. The relationship between these measurements and ICP would likely be the subject of another study. Sufficient rationale is provided for most of the study’s objectives. This is original and useful work in this area.

There are a couple of queries/comments that I would wish the authors to address before publication.

Major Compulsory

1. What are the baseline characteristics of individuals selected for the study e.g. what were the reasons for admission to the department of radiology – why did they need “routine” ct-scans?, are there other measurements of physiological parameters e.g. blood pressure, head circumference, how many individuals belonged to the various age groups?

2. Can there be a clearer description of the methods used to include or exclude patients – were similar protocols used for instance to rule out for instance toxic neuropathies, were they different observers, are there references to standard procedures if any?

3. Please provide a reference for the standard Philips protocols for head and neck imaging used in this study

Minor Essential

4. It is not very clear why the ONSD /ETD should be used. There may be rationale for this but this does not come out clearly in the background or discussion. As much as there is little variation in this index, what is its clinical import? Why this index and not ONSD/head circumference for instance?

5. There are minor grammatical areas that can be easily addressed.

Level of interest: An article of importance in its field

Quality of written English: Acceptable
**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

No, the manuscript does not need to be seen by a statistician.