Reviewer’s report

Title: The Effect Of Primary Vascular Dysregulation On Retinal Venous Pressure.

Version: 4 Date: 14 May 2014

Reviewer: Luca M Rossetti

Reviewer’s report:

This is a nice paper reporting the finding that patients with POAG and PVD tend to have increased values of RVP. The results are very straightforward and well commented. I have few comments about this paper, mostly aimed at improving the readability of the manuscript.

- 1. Introduction: although pertinent literature is quoted, it should be preferable for the reader to have the estimates of prevalence of PVD in glaucoma and non-glaucoma populations.

- 2. Most of the readers are not familiar with ophthalmodynamometry. Please provide data about reproducibility and repeatability of RVP measurements with the device.

- 3. Again, something should be mentioned about diagnosis of PVD and about test results using DVA.

- 4. Why treated IOP had to be less than 23 mmHg in the POAG group?

- 5. Some information about POAG groups should be presented. Were all POAG cases? It could be interesting to see the MD, BCVA in glaucoma PVD+ and – groups.

- 6. From Table 2, RVP in POAG PVD+ was almost double than in healthy PVD-. Could the authors compare the values of RVP from the present study to what has been observed in other studies?

Quality of written English: Acceptable

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