Reviewer’s report

**Title:** Spectral domain optical coherence tomography in patients after successful management of postoperative endophthalmitis following cataract surgery by pars plana vitrectomy

**Version:** 2

**Date:** 1 April 2014

**Reviewer:** MARIA ANGELES A ASENCIO

**Reviewer’s report:**

**Major compulsory Revisions**

1. Abstract. Third Paragraph: the background is disjointed.

Intravitreal antibiotics are crucial for successful treatment of postoperative endophthalmitis, and its efficacy depends both on the time it takes the antibiotic to reach an effective concentration in vitreous and the time it takes corticosteroids to block the inflammatory response. Patients who get more benefits from early vitrectomy are those with significant loss of vision at presentation, so that this technique is more suitable to other types of endophthalmitis involving more severity consequences as traumatic and endogenous types. Furthermore, vitrectomy carries the risk of complications from surgery.

It is unclear whether the authors always treated the patients with acute postoperative endophthalmitis by vitrectomy or whether they administered other treatments.

**Background:** Objective, third paragraph: the main goal of this study....

The authors do not define a therapeutic or diagnostic purpose. That is, they do not explain the purpose of analyzing the retinal and choroidal microstructures in this kind of patients. What is the benefit to the patients? Does it improve the visual outcome?

3. Methods. Third Paragraph: a cross sectional observational study was carried out ....

Why have the authors chosen that period of time? Were there more cases of endophthalmitis in this period?

The authors do not explain how they estimated the sample size. They neither indicate how the independence of the operator is guaranteed to evaluate each eye of the same patient nor the use of masking mechanisms.

4. Discussion. The authors do not include the limitations of the study.

**Level of interest:** An article whose findings are important to those with closely
related research interests

**Quality of written English:** Acceptable

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

**Declaration of competing interests:**

I declare that I have no competing interests’ below