Reviewer’s report

Title: Aerobic exercise and intraocular pressure in normotensive and glaucoma patients.

Version: 3 Date: 22 April 2009

Reviewer: Ahmet Akman

Reviewer’s report:

4/22/2009

Dear Editor,

I have reviewed the study entitled “Aerobic exercise and intraocular pressure in normotensive and glaucoma patients” by Natsis et al. Following are the key points that must be corrected before the publication of the manuscript. I will be happy to re-review the manuscript after these corrections.

Main drawback of the study is the big age difference among the normotensive study subjects and glaucoma patients. Authors must point this problem in the discussion section.

A study by Ozmerdivenli et al. can be considered for the discussion section. (Ozmerdivenli R, Simsek E, Bulut S, Karacabey K, Saygin O. Comparison of the effects of acute and regular exercise on intraocular pressure in Turkish athlete and sedentarians. Int J Neurosci. 2006 Mar;116(3):351-60.)

Authors abbreviated beta blockers as b-blockers or #-blockers the same abbreviation must be used throughout the text. This same apply for alpha mimetics.

Prostaglandin analogs decrease IOP by matrix metalloproteinase up regulation. Because of this mechanism IOP reduction after prostaglandin analogs requires certain time (1-2 weeks depending the patients’ genetics). This point should also be addressed in the discussion section.

Authors used the term simple glaucoma in the first part of the manuscript. Primary open angle glaucoma could be the correct term.

Graphical illustration instead of the tables provided at the results section could be more demonstrative for the reader.

Yours Sincerely,
Ahmet Akman, MD
Professor of Ophthalmology
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:

I declare that I have no competing interests