



SDI Review Form 1.6

PART 1:

Journal Name:	<u>Ophthalmology Research: An international Journal</u>
Manuscript Number:	2013_OR_4933
Title of the Manuscript:	Postoperative Use of Cyclosporine, Prednisolone or a Cyclosporine/Prednisolone Combination to Treat Inflammation of the Conjunctiva Following Trabeculectomy in Rabbits
Type of the Article	Research paper

General guideline for Peer Review process is available in this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	Introduction – very weak part of the paper. Pathophysiology of wound healing formation is written in very messy way. It is evident that English language editing assistance is strongly recommended. Whole text should be checked again by e.g. native speaker. Detailed description of the trabeculectomy technique is not at all needed here, instead, better explanation why the study was undertaken should be provided. Material and methods: Info about ethics should be placed at the beginning of the paragraph. Description of the technique is lacking. It is not certain why thickness of the conjunctival epithelium has any significance as a marker of wound healing and efficacy of trabeculectomy, why? The same is true of diameter of vessels. It is not certain whether 1 month bimatoprost treatment is sufficient to produce significant conjunctival alteration. No information is given about surgery complications and efficacy of the procedure which can influence on healing processes in particular cases. The parameters were measured twice (line 129). The mean value should be shown.	Introduction: ANSWER: The pathophysiology of wound healing was fixed <u>on the manuscript</u>, the same <u>improvement was made on the part</u> about the reasons <u>why</u> the study was undertaken. Material and methods: Info about ethics was placed at the beginning of the paragraph, and we added information about surgery complications. A <u>description about</u> trabeculectomy technique <u>also</u> was added. Russ et al described inflammatory conjunctival changes in rabbits after 30 days of topical glaucoma treatment with timolol maleate or prostaglandin analogues (Russ et al,2007). In the group treated with timolol, there was a significant increase in conjunctival epithelial thickness and a marked increase of subepithelial collagen density, a finding that is consistent with the literature. This finding may



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	ANSWER: The mean value is now shown Influence of cyclosporine on IL-6 was described previously. There is no need to repeat that relationship again in the present study. Results: In the results statistical analysis is shown only for single treatment vs. double treatment groups. Authors do not hold clearly the aim of the study which is comparison of different strategies diminishing healing processes after trabeculectomy. The information about differences between control and single treatment group could be interesting. Discussion: Authors do not discuss their results. The main information about synergic action of steroids and cyclosporine is only mentioned in the last paragraph (line 284). The side effects of antiglaucoma drops on conjunctiva and their changes after therapy discussed (line 218-224) are not at all shown in the results. Antimetabolites are not connected with the main topic but are described twice, in the introductory and	be secondary to epithelial cell edema, or to the presence of an inflammatory infiltrate. Number and <u>diameter of blood vessels also</u> were evaluated. <u>An</u> increase in number of <u>blood vessels of small diameter (neovascularization)</u> <u>was observed by the same investigators.</u> About <u>the cyclosporine influence on IL-6</u> thank you for your correction. <u>This sentence</u> was removed. Results: ANSWER: There was no control group in this investigation – the animal use committee did not authorize a “no treatment group”. For all purposes, <u>however</u>, in our investigation, the corticosteroid group can be considered as a “control group”. Discussion: ANSWER: Thank you for your suggestions. We re-wrote the discussion <u>part</u>, and we hope we <u>have</u> improved it. Antimetabolites have a high complication rate in post-glaucoma surgery treatment. This is the reason why this was cited in this manuscript. The objective of this investigation was to
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	discussion paragraph.	create alternatives for the use of drug protocols. However, we agree that this needed to be re-written.
Minor REVISION comments	Trabeculectomy is used for over 40 years (not thirty years).	We have corrected this sentence. <u>Thank you.</u>
Optional/General comments	This is very ambitious experimental study study on innovative cyclosporine use (and prednisolone) to modify wound healing after trabeculectomy. However, there are quite a lot of problems as to the study design and the quality of the manuscript to advise acceptance of the paper in the present form.	