

Review Form 1.6

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|--------------------------|----------------------------------------------------------------------------------------------------------|
| Journal Name:            | Ophthalmology Research: An International Journal                                                         |
| Manuscript Number:       | Ms_OR_88320                                                                                              |
| Title of the Manuscript: | Efficacy Analysis for presbyopia correction using noninvasive scleral softening by infrared diode lasers |
| Type of the Article      | Original Research Article                                                                                |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalor.com/index.php/OR/editorial-policy> )

PART 1: 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) |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Compulsory</b> REVISION comments | The title of the work does not reflect the factual material presented in it. The article contains only theoretical considerations. The same applies to the formulas proposed by the author for calculating the energy parameters of an infrared diode laser for local softening (depolymerization) of the sclera during the correction of presbyopia. The legitimacy of the given formulas for calculating the energy parameters of an infrared diode laser when exposed to the sclera requires confirmation in ex vivo and in vivo experiments. This material is not included in this work. Experimental confirmation is necessary for the method of correcting presbyopia (increasing the refraction of the eye) by applying local effects on the sclera, without or in combination with exposure to the cornea of infrared radiation from a diode laser. From the theoretical considerations of the author, it is not clear what the spot diameter should be at the point of local impact on the sclera and what refractive effect can be achieved depending on the number and topography of laser impacts only on the sclera. The same applies to strengthening the corrective effect with additional exposure to the coagulation mode on the cornea. This also requires a complex of special optometric studies in experiments in vivo. All references to published works and patents are based on theoretical considerations only. |                                                                                                                                                                               |
| <b>Minor</b> REVISION comments      | The work needs to be revised with the inclusion of factual material that confirms the theoretical reasoning.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                               |
| <b>Optional/General</b> comments    | The submitted work cannot be published.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                               |

PART 2:

|                                              | 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) |
|----------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Are there ethical issues in this manuscript? | (If yes, Kindly please write down the ethical issues here in details) |                                                                                                                                                                               |

Reviewer Details:

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|----------------------------------|----------------------------------------------|
| Name:                            | Igor Kornilovskiy                            |
| Department, University & Country | National Medical and Surgical Center, Russia |