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PERIPAPILLARY CHANGES OF RNFLT AFTER SUCCESSFUL TREATMENT FOR RRD

Oral

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Purpose:

To evaluate the peripapillary retinal nerve fibre layer thickness (RNFLt) over time after successful repair of rhegmatogenous retinal detachment (RRD).

Methods:

The 45 patients of the study have been successfully treated for RRD with pneumatics retinopexy or pars plana vitrectomy with SF6 gas tamponade. As study sector of peripapillary RNFL was used the sector that corresponds best to the most severely affected part of the detached area. Values of that sector at 1st, 6th and 12th month post-surgery were measured and their change in time was compared to: 1. Values of the same sector of the fellow eye 2. Values of the most unaffected sector of the detached eye.

Results:

From 45 patients, 13 eyes, that have followed the one-year follow-up, and are analysed here. After comparing values of the most affected and the most unaffected sector of the detached eye at 1st, 6th and 12th month post-op, a statistically significant reduction of RNFLt over time was found. On the other hand, comparison of the most affected and the most unaffected sector of the fellow eye did not reveal any change of the RNFL thickness over time.

Conclusions:

It seems, that even after an anatomically successful repair of RRD, changes can be triggered in the retinal tissue including the RNFL and these changes could be reflected in the peripapillary area. RNFLt does not seem to change significantly over time in any sector of the fellow eye.