

Pituitary tumor case series

A study included 197 eyes of 197 patients with [chiasmal](#) compression due to [pituitary tumors](#). No patient showed complete [visual field](#) (VF) [recovery](#) in group 1 with a preoperative peripapillary retinal nerve fiber layer (pRNFL) thickness $<65\text{ }\mu\text{m}$ or a ganglion cell-inner plexiform layer (GCIPL) thickness $<55\text{ }\mu\text{m}$ regardless of age. These groups showed the worst VF outcome (pRNFL, $p = 0.0001$; GCIPL, $p < 0.0001$). However, a significant recovery in VF (greater than 2 dB) was observed in 45% of group 1 patients based on pRNFL thickness and in 61.54% of group 1 patients according to GCIPL thickness. In groups 2 and 3 with a preoperative pRNFL thickness of $65\text{ }\mu\text{m}$ or more and a GCIPL thickness of $55\text{ }\mu\text{m}$ or more, the rate of complete VF recovery decreased as subjects' ages increased. Group 3 with a preoperative pRNFL thickness of $85\text{ }\mu\text{m}$ or more and a GCIPL thickness of $77\text{ }\mu\text{m}$ or more were 2.5-fold and 4.0-fold more likely to completely recover VF, respectively, compared with group 2.

Stratified preoperative peripapillary retinal nerve fiber layer (pRNFL) and ganglion cell-inner plexiform layer (GCIPL) thicknesses measured via [optical coherence tomography](#) (OCT) in different [age](#) categories are effective [biomarkers](#) for predicting visual functional outcomes ¹⁾.

¹⁾

Lee GI, Park KA, Lee D, Oh SY, Kong DS, Hong SD. Predicting visual outcomes after decompression of pituitary tumours based on stratified inner-retinal layer thickness and age. Acta Ophthalmol. 2022 Nov 18. doi: 10.1111/aos.15281. Epub ahead of print. PMID: 36398459.

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Last update: **2024/06/07 02:51**

