

Retinal ganglion cell count IDs normal-tension glaucoma

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(HealthDay)—Weighted retinal ganglion cell (RGC) count has higher potential than other parameters for differentiating normal eyes from those with glaucoma, according to a study published online Sept. 19 in *Clinical & Experimental Ophthalmology*.

Mai Yamazaki, from Tohoku University Graduate School of Medicine in Sendai, Japan, and colleagues examined whether estimated RGC counts have a higher potential than other parameters for differentiating normal eyes from those with glaucoma. Data were included from 257 glaucoma patients with open-angle glaucoma (OAG), including 80 with high-tension glaucoma (HTG) and 177 with normal-tension glaucoma (NTG).

The researchers found that the correlation coefficient was significant between weighted RGC count (wrgc) and all other parameters (0.94 with Humphrey field analyzer-measured mean deviation [MD]; 0.85 with circumpapillary retinal nerve fiber layer thickness [cpRNFLT]; 0.70 for microcirculation in the overall optic nerve head measured with laser speckle flowgraphy-measured mean blur rate [MBR] [overall MBR: MA]) (all P parameters, wrgc had significantly higher diagnostic power (P

"Structural and functional changes have unique characteristics in different types of OAG. Here, we demonstrated that wrgc could be used to evaluate NTG damage," the authors write. "This suggests that wrgc may also be a good index of [glaucoma](#) progression in both OAG and NTG."

More information: [Abstract](#)
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