

# The Weiss ring, a major confounding factor for measurements of peripapillary retinal nerve fiber layer thickness

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**PURPOSE:** To identify how the Weiss ring affects the measurement of mean and sectoral peripapillary retinal nerve fiber layer (pRNFL) thicknesses.

**DESIGN:** Retrospective cross-sectional study.

**METHODS:** Subjects were divided into two groups: controls (control group) and subjects in which a Weiss ring was visible on optical coherence tomography fundus images (WR group) . Mean and sectoral pRNFL thicknesses were compared between the two groups.

**RESULTS:** A total of 205 eyes were enrolled: 131 eyes in the control group and 74 eyes in the WR group. The mean pRNFL thicknesses of the control group and WR group were  $97.2 \pm 6.7$  and  $94.6 \pm 10.8$   $\mu$ m, respectively

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Am J Ophthalmol. 2022 Jan 13;S0002-9394(22) 00003-4. doi: 10.1016/j.ajo.2022.01.001. Online ahead of print.

PMID: 35038416 DOI: 10.1016/j.ajo.2022.01.001