

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 ± 6.7 and 94.6 ± 10.8 μ m, respectively

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