



Take a look at the deviation maps when assessing structural change in glaucoma

The Science behind the Tip

The structural analysis of the thickness of peripapillary retinal nerve fiber layer (pRNFL) and the inner layers of the posterior pole with optical coherence tomography (OCT), either alone or combined, have a very high diagnostic accuracy¹. However, glaucomatous damage and structural progression can be overlooked if we only rely on color-coded sectors evaluation and/or global thickness summary statistical analyses².

Most of the currently available OCT devices offer reports with topographic deviation maps that may help with glaucoma diagnosis and monitoring.

- Combined pRNFL and ganglion cell-inner plexiform layer (GCIPL) wide-field deviation/probability maps can help to detect progression in early glaucomatous eyes³.
- Topographic analysis may also help distinguish glaucomatous from healthy myopic eyes⁴.
- Finally, in advanced glaucoma, where RNFL thickness evaluation cannot detect further progression due to the floor effect, progressive changes in the deviation maps together with GCIPL thickness loss rates may help to identify structural worsening⁵.

References

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