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Glaucoma

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COMPARISON BETWEEN HUMPHREY VISUAL FIELD AND FDT MATRIX AFTER RADIAL KERATOTOMY

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Purpose: To assess whether there are differences in Humphrey Visual Field and Matrix frequency-doubling technology (FDT) after radial keratotomy.

Methods: Eyes that undergone radial keratotomy were included in this study. Patients with glaucoma or optic nerve head with a glaucomatous pattern were excluded. Visual field (Humphrey 24-2 SITA standard) was performed in the first visit after a comprehensive ophthalmology examination. A second visual field (either Humphrey or Matrix frequency-doubling technology (FDT) were performed in the second visit and the other visual field exam in the third visit (second and third visual field exams order were randomized and with a interval of 1 to 10 days) . Mean defect (MD), pattern standard deviation (PSD) and mean threshold sensitivity of baseline were recorded. All the visual fields had to be reliable with Fixation Losses below 20%, False Negatives below 33%, and False Positives below 33%.

Results: Preliminary results showed lower MD values for the FDT – Matrix exams comparing with the Humphrey tests. There is also a higher frequency of GHT alterations in the Humphrey exams.

Conclusion: In the preliminary evaluation it seems that corneal alterations induced by RK might have a higher influence in the Humphrey perimetry than in FDT matrix perimetry.