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Service (sector) GlaucomaNº CEP

Comparison of Visual Field Defects Between Flicker and Frequency Doubling Technology Perimetries in Glaucomatous Patients

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Purpose: To compare the extension and depth of visual field defects detected by Flicker (Medmont M700) and Frequency Doubling Technology (FDT-Matrix) perimetries in open-angle glaucoma. **Methods:** Fifteen eyes of 15 patients were enrolled. Patients were included if they had open-angle glaucoma and a glaucomatous defect in the Standard Automated Perimetry. The patients underwent Flicker and FDT-Matrix perimetries in a random sequence, and the exams were performed twice in each perimeter. The results of the second exams of both perimeters were considered for analysis. Patients who presented abnormal reliability perimetric indices were excluded from the study. The extension and depth of visual field defect were analyzed from the Total Deviation Graph, considering the percentage of points showing defects with probabilities lower than 5% and 0.5%, respectively. **Results:** Twelve patients completed the study; three patients were excluded due to abnormal reliability indices. The mean percentage of points with probabilities lower than 5% in the Flicker and FDT perimetries were 45.6% and 52.0% ($P=0.75$), respectively. The mean percentage of points with probabilities lower than 0.5% in the Flicker and FDT perimetries were 18.3% and 31.0% ($P=0.37$), respectively. **Conclusions:** Flicker and FDT perimetries are not different regarding to depth and extension of visual field defects in glaucomatous patients.