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Service (sector) Glaucoma - HCFMUSP – Glaucoma congênitoNº CEP

**Automated perimetry in patients with primary congenital glaucoma.**

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**Purpose:** Identify and characterize defects in automated perimetry test in patients with primary congenital glaucoma. **Methods:** automated visual fields obtained with Humphrey perimeter and charts of 48 patients (81 eyes) with primary congenital glaucoma were retrospectively analyzed, being 15 normal eyes without glaucoma (group N) and 66 eyes with glaucoma (group G). Eyes with glaucoma were grouped in eyes with early perimetric defects, characterized by MD > -6 dB (group G I = 41 eyes) and eyes with mild/advanced perimetric defects characterized by MD  $\leq$  -6 dB (group G II = 25 eyes). Patients charts data were analyzed to determine automated visual fields characteristics. **Results:** in group G I were observed 68% with normal visual fields, 22% with localized defects and 10% with general reduction of sensitivity. In group G II 56% with general reduction of sensitivity and 44% with localized defects were observed. The most common localized perimetric change was inferior paracentral scotoma. Normal visual fields in group G I had foveal limiar and MD values lower than in group N. **Conclusions:** the automated perimetry exam showed to be efficient in showing perimetric defects characteristic in glaucoma, being important to initial evaluation and giving parameters for following patients with primary congenital glaucoma.