

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo
PIBIC Last Name - Lagrasta First Name - Juliana Middle - Marques de Souza

Service (sector) Glaucoma N° CEP

Inter and intraobserver reproducibility of the Heidelberg Retina Tomograph II (HRT II) with and without optic disc stereophotographs

Authors: Lagrasta, JMS, Magosso, L, Paranhos-Jr, A

Purpose: To assess the intraobserver and interobserver reproducibility of four HRT parameters, with and without optic disc stereophotographs

Methods: We randomly selected one eye of 26 patients from the Glaucoma section who had already had stereophotographs and HRT. Six measurements from the optic disc of one image in the HRT exam were obtained by each of two examiners. Each examiner repeated the optic disc contour line three times without the photographs and three times looking simultaneously at the photographs. We evaluated four parameters of the HRT software for each contour line.

Results: Six patients were male and 7 were female, with a mean age of 57,6 years (range 16-78 years). All patients had glaucoma or risk factors for glaucoma. The four parameters evaluated were: disk area, cup volume, rim volume, cup shape and linear cup/disk ratio. MANOVA model was used in statistical analysis (Tukey HSD for multiple comparison). We found a statistically significant difference when the examiner is not taken into account, the use of the retinography seems to improve the reproducibility of the disc area measurement value ($p=0,007$). We could not find any statistically significant difference with the other parameters: neither for intra nor for interobserver.

Conclusions: The reproducibility of the measurements was good for most of the tested stereometric parameters. Only the disc area measurement seems to have better agreement when using the stereophotographs.