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**Service (sector) Glaucoma N° CEP**

**COMPARISON AMONG DIFFERENT DIAGNOSTIC METHODS TO  
DIMENSION GLAUCOMATOUS OPTIC DISK DAMAGE: FUNDUS  
BIOMICROSCOPY, PAPPILLA'S STEREOGRAPHY, HRT, OCT AND OCULAR  
ULTRASOUND .**

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**PURPOSE:** To investigate the ability of the B mode ultra-sonography by means of 10MHz and 20MHz transducers in detecting evidenced excavation in the optical disk in comparison with evaluations by using diagnosis methods as: fundus biomicroscopy, papilla's stereophoto, Heidelberg Retina Topography (HRT) and Optical Coherence Tomography (OCT) analysis.

**MATERIALS AND METHODS:** Study accomplished at the glaucoma and ocular ultra-sonography section of the Department of Ophthalmology at the Federal University of Sao Paulo - Paulista School of Medicine. The protocol was previously submitted for the approval of the Committee on Medical Ethics of the Federal University of Sao Paulo (UNIFESP). Two groups have been constituted: normal and glaucomatous. Glaucoma bearers group was formed by 40 patients with better, higher or equal to 20/60 correction. The diagnosis has been based on high levels of intraocular pressure (Po) (above 21mmHg), existence of anatomical alterations in the optical disk and alterations of the visual field. The group of normal subjects was formed by 40 individuals with visual acuity, higher or equal to 20/40, with Po below 21mmHg in more than one measure with the Goldmann Aplanation Tonometry (GAT) and without alterations in the visual field according to Anderson's criteria. Both groups were evaluated to fundus biomicroscopy by two examiners, papilla's stereophoto by three examiners, and the HRT, OCT and B mode US with 10MHz and 20MHz transducers by an experienced examiner.

Exclusion criteria: presence of media opacities that disable exams accomplishment, existence of surface disease, and recent ocular surgery.