X) R1 ( ) R2 ( ) R3 ( ) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( ) PIBIC

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Intra-ocular pressure measurements differences after radial keratotomy using Goldmann, Pascal and Ocular Response Analyser tonometry.

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PURPOSE: To compare the intraocular pressure (IOP) using Goldmann applanation tonometry (GAT), the ocular response analyzer (ORA), and the Pascal dynamic contour tonometer (PDCT) in eyes treated with radial keratotomy (RK).

METHODS: Patients with glaucoma history or glaucomatous optic disc head were excluded. IOP was measured in eyes after RK by GAT, ORA, and PDCT in a randomized sequence. Measurements of corneal biomechanical properties (corneal hysteresis [CH], corneal resistance factor [CRF] were recorded. Static ocular refraction, biomicroscopy, fundoscopy, ultrasonic pachymetry and corneal topography were also performed.

RESULTS: Preliminary results showed mean IOP values of 13,1 mmHg for the GAT, 14,35 for PDCT and 22,6 for ORA measurements. Seventy five percent of PDCT had low quality measures and had to be excluded.

CONCLUSIONS: These preliminary results indicate that GAT values are lower than ORA and PDCT ones and that PDCT might have problems generating reliable measurements in post RK patients.