( ) R1 ( ) R2 (X) R3 ( ) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( )
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Service (sector) Cataract Nº CEP

Clinical results in phacoemulsification using the SRK/T formula

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Background and Objective: Better postoperative visual results depend on several factors including accuracy of the intraocular lens (IOL) power formula. The aim of this study was to evaluate the prediction of refraction using the SRK/T formula for IOL calculation in phacoemulsification. Materials and Methods: Prospective study enrolling 43 eyes with nuclear cataract that underwent phacoemulsification. All procedures were performed by one surgeon with the IOL placed within the capsular bag. The achieved refractive error one month after surgery was compared to the predicted postoperative refractive error by SRK/T formula. Results: The ocular axial lengths varied between 21.73 mm and 24.28 mm. The mean predicted refraction was – 0.426 D and the mean postoperative spherical equivalent was – 0.128 D. Twenty-two eyes (54%) had a refractive error between ± 0,50 D and thirty-two eyes (86%) between ± 1,00 D of the predicted refraction. There was a slight tendency toward hyperopic shift (mean ± SD: 0,303 ± 0,733D, p=0,015). Conclusion: SRK/T formula demonstrated a satisfactory accuracy to calculate the error of refraction in eyes with medium axial length.