

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo PIBIC

Last Name - Stumpf
First Name - Simone
Middle -

Service (sector)
Cataract

Nº CEP

Endothelial damage after extra capsular cataract extraction and phacoemulsification in hard cataracts.

(Stumpf, S.; Nosé W.)

Purpose: To evaluate intraoperative endothelial damage after planned extra capsular cataract extraction (ECCE) and phacoemulsification in hard cataracts.

Methods: In this prospective randomized study 37 patients with same and very hard cataract scheduled for cataract surgery were divided into two groups. Group 1 (10 patients) had ECCE and Group 2 (18 patients) phacoemulsification. Both had capsular bag interlobular lens (IOL) implants. Preoperatively and 30, 90 and 180 days postoperatively, a complete ophthalmologic examination, endothelial specular microscopy and ultrasonic pachymetry were done. Visual acuity, endothelial and corneal thickness were studied.

Results: In both groups cell loss significantly differed from the preoperative values but there were no significant differences among the postoperative values. Mean cell loss was 31.5% in Group 1 and 33.3% in Group 2. Postoperative pachymetric measurements were not significant.

Conclusions: There was no statistically significant difference between the endothelial response of the two studied groups.