

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo PIBIC

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Service (sector)
Retina and Vitreous

Nº CEP

Combined phacoemulsification, pars plana vitrectomy and posterior chamber intraocular lens insertion in one procedure for patients with proliferative diabetic retinopathy

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Purpose: to evaluate the outcomes and the best technique for a combined phacoemulsification (phaco), pars plana vitrectomy (ppv) and posterior chamber intraocular lens insertion (pciol) in one procedure for patients with proliferative diabetic retinopathy

Methods: we reviewed charts of 47 patients with proliferative diabetic retinopathy who underwent combined phaco, ppv and pciol performed between january 1991 and march 1997 at the bascom palmer eye institute . 40 patients and 43 eyes were elected to participate in the study. Results: the follow up range was 3 to 60 months (mean 19,8 months).the age ranged from 37 to 77 years with mean of 59,2. Preoperative visual acuity improved two lines or more in 26 eyes (60,4%), remain the same in 09 (20,9%) got worse in 08 (18,6%). In 10 eyes (23,2%) visual acuity improved to the level of 20/40. The sign test showed to be statistically significant to the improvement at final visual acuity. The recurrent vitreous hemorrhage was the most frequent postoperative complication found in a 12 eyes (27,9%) and it was followed closely by transitory anterior chamber reaction in 09 eyes (20,9%). Intraoperative and postoperative complications related to phacoemulsification were rare. lol capture was found in 02 eyes (4,6%) nd iol subluxation in 01 eye (2,3%)

Conclusions: combined phacoemulsification,pars plana vitrectomy and pciol in proliferative diabetic retinopathy is a well tolerated procedure and usually presents significant visual improvement. One single procedure, to remove the cataract and to perform vitrectomy is safe , improves visual acuity and is less aggressive for the patient, than to perform a second surgery only to remove the cataract after the vitrectomy. Better results in final visual acuity are due severity of retinopathy.