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Last Name - Sarraff
First Name - Eduardo
Middle - Pantaleão

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(Comitê de Ética em Pesquisa da Universidade Federal de São Paulo – UNIFESP)

Randomized comparison of the efficacy of cataract surgery using Ozil technology with miniflared vs tapered phaco microtips

Eduardo Pantaleão Sarraff, Fábio Henrique Casanova

Purpose: To compare the outcomes after phacoemulsification performed with Ozil technology using two different Kelman phacotips: miniflared vs tapered microtip.

Methods: Forty eyes underwent phacoemulsification using Ozil technology were divided in two groups: miniflared group (MF) and tapered microtip (TM). A control group (21 eyes) used Legacy system. All the surgeries were performed by the same surgeon and using the same technique (phaco chop). Best corrected visual acuity, surgery time, intraoperative phaco parameters, endothelial cell loss, pachymetry were evaluated at months 1, 3 and 6 after surgery.

Results: Patients have been followed by 3 months. Final results are still pending.

Conclusion: Preliminary results have shown that MF group presents higher intraop parameters, longer surgical time and induces greater cell loss in harder nucleus. Ozil technology is a safe, effective and predictable method for phacoemulsification. Kelman microtip seems to be the best option, especially in dense cataracts.