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Femtosecond laser-assisted lens fragmentation: Effects on effective phaco time and postoperative corneal edema

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Purpose: Compare effective phaco time (EPT) and corneal edema between standard, MultiBurst and MultiBurst with femtosecond phacoemulsification using Stellaris phacoemulsification unit and Victus femtosecond laser platform.

Methods: 48 eyes were randomly assigned to each group. Corneal edema evaluated by a masked observer using conventional grading.

Results: Cataract grade was comparable amongst groups. Average EPT was 0.45, 2.5, and 4.8 seconds for MultiBurst with femto, MultiBurst and standard phaco groups respectively. Mean corneal edema score was 0.3, 0.8 and 1.5 for MultiBurst with femto, MultiBurst and standard phaco groups respectively.

Conclusion: MicroBurst using Stellaris phacoemulsification unit and Victus femtosecond laser platform demonstrated significantly less EPT and corneal edema than MultiBurst and standard phacoemulsification.

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