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

Comparison of energy required in stop and chop and nuclear preslice techniques.

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Purpose: To evaluate the differences in phaco time , phaco power and effective phaco time required in stop & chop and nuclear preslice techniques. Methods: A prospective randomized study of 44 patients divided into 2 groups, comparing the stop & chop with nuclear preslice techniques, in terms of phaco time (minutes), phaco power (%), effective phaco time (calculated time required if 100% power had been used throughout). Results: The results showed that nuclear preslice requires significantly less phaco time (0.25 ± 0.16 minutes) than stop & chop (0.40 ± 0.11 minutes) (P < .001), less phaco power (7.1% ± 2.8% versus 12.9% ± 2.4%)(P< .001), and less effective phaco time (0.02 ± 0.01 versus 0.05 ± 0.02 minutes) (P< .001). Conclusions: This study showed a significant advantage of the nuclear preslice over the stop and chop technique in phaco power , phaco time and effective phaco time.