

# Perbandingan efisiensi dan keamanan fakoemulsifikasi transversal-longitudinal sistem peristaltik dengan sistem venturi pada katarak derajat sedang-keras = Comparison of transversal longitudinal peristaltic and ventury system of phacoemulsification in moderate hard grade cataract efficiency and safety

Maulia Fitra Purnama, author

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## Abstrak

Tujuan: mengetahui tingkat efisiensi dan keamanan antara teknologi Ellips FX-Peristaltik dengan Ellips FX-Venturi pada fakoemulsifikasi katarak derajat sedang-keras.

Desain: Penelitian ini merupakan uji klinis randomisasi.

Metode: sebanyak 48 pasien dilakukan randomisasi untuk dilakukan fakoemulsifikasi. Setiap subjek diukur densitas sel endotel dan ketebalan kornea sentral. Efisiensi dinilai dari effective phaco time EFX. Mesin fakoemulsifikasi yang digunakan adalah Signature Ellips FX.

Hasil: Tidak terdapat perbedaan yang signifikan untuk median phaco time, penurunan densitas sel endotel dan peningkatan ketebalan kornea sentral. Tidak terdapat komplikasi pada penelitian ini.

Kesimpulan: tidak ada perbedaan efisiensi dan keamanan antara sistem Ellips FX-Peristaltik dengan Ellips FX-Venturi.

.....Purpose: To know the level of efficiency and safety of the technology Ellips FX peristaltic with Ellips FX Ventury in phacoemulsification of moderate to hard grade cataract.

Methods: 48 outpatients were eligible selected by RCT at CM hospital in periods of January 2016 ndash June 2016. Impacts of pumps system setting difference were observed by objective measurement of endothelial cell density ECD and central corneal thickness CCT. Efficiency was recorded as effective phaco time EFX. Signature Ellips FX were used as phacoemulsification machine.

Result: The total sample that has been analyzed was 46 patients. There is no significant difference in median phaco time, a decrease in endothelial cell density and an increase in central corneal thickness. There were no complications in this study.

Conclusion: There is no difference between the efficiency and safety of Ellips FX peristaltic with Ellips FX Ventury system

Keywords peristaltic, Ventury, Ellips FX, efficiency and safety