

10th International Conference on

Clinical & Experimental Ophthalmology

November 21-23, 2016 Dubai, UAE

Femtosecond laser assisted cataract surgery followed by coaxial phacoemulsification or microincisional cataract surgery: Differences and advantages

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Purpose of review: This review outlines the advantages and the differences of femtosecond laser-assisted cataract surgery. (FLACS) following a coaxial or microincision cataract surgery phacoemulsification in the surgical outcome and greater control of cataract surgery.

Recent findings: FLACS offers minimal tissue damage and extreme precision during corneal incision creation, continuous circular capsulorhexis (CCC) and nuclear fragmentation. It also allows diminishing the mean average ultrasound power to emulsify the nucleus followed by a coaxial or a biaxial procedure. The impact of reduced phacoemulsification energy on the corneal endothelium is an interesting topic that is being investigated. Despite its benefits, this technology has relevant financial issues and a high learning curve.

Summary: FemtoMICS appears to be surgically and statistically more efficient than the Femt-coaxial technique and Femtoincisions prove to be stable and do not change the corneal high order aberration significantly with favourable results of the triplanar configuration.

Biography

Irina Mocanu is a Romanian Ophthalmologist, graduated from the Bucharest Emergencies Eye Hospital. She has done a fellowship in University of Crete - Institute of Vision and Optics Heraklion, with Prof.Pallikaris. Also she did a fellowship in Advanced Microincision Phacoemulsification in Instituto de la Vision, University of Montemorelos - Mexico, having Dr. Felipe A. Soria as a tutor. Currently, she is a PhD student, doing a research on the effects of intraocular foreign bodies with forensic implications. She works in her own private practice dedicated mainly to anterior segment cases.

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