

4-in Peacock Surgeries Corneal Incisions by using Femto Laser are More Smoother, Precise with Less Astigmatism on Healing

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Femto Laser, present and future

Introducing Femto laser in ophthalmic surgery gave hope for precise non mechanical surgical intervention. Femto laser was applied in nearly all anterior segment surgeries mainly corneal incisions and lamellar dissection. By time after more than 2 decades of its applications we can summarize the benefits and hazards of its use with over viewing its future role in ophthalmology.

Advantage of F. Laser; a very precise depth and limit of dissection of the anterior eye segment especially the cornea during phacoemulsification, implantation of IOL with its different types and purposes, also all types of lamellar, tectonic, mushroom or even penetrating keratoplasty. Also, lamellar refractive correction as SMILE techniques got good popularity years ago.

Disadvantages

- Delayed healing of tissues is usually observed after corneal incisions with much incidence of postoperative delayed infection. In lamellar corneal refractive correction, delayed healing with fluctuations of response and corneal haze are common, also the surface of Femto wounds are not so smooth as mechanical ones due to the disruptions of tissues which in the Femto mechanism.
- Also, the separation of tissues is incomplete which needs mechanical interference to complete.

Future

- Femto laser as a surgical tool in corneal correction or transplant is much appreciated and give rise to different maneuvers which was nearly impossible before its arrival.
- Future safety use of Femto laser in posterior segment, vitreous membrane or retinal dissection.
- Also, it can benefit in ocular, myotomy or scar correction.
- Femto laser, uses and abuses.

Uses

Femto laser is very important in lamellar keratoplasty either deep or superficial techniques. It gives very precise depth of the dissection even if it is uneven or in presence of facets or dissection membrane wounds. Mushroom corneal transplants also can be performed easily with Femto dissection of both recipients and buttons. How?

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