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Corneal axis marking of toric IOL with Sunalp YAG laser lens

Murad A Sunalp and Myhidin Shehu
Sunalp Laser Vision Inc., USA

Purpose: We have devised a new method to mark the corneal axis of Toric IOL that is inexpensive and precise.

Methods: In the office, a drop of ophthaine is placed on the eye and the patient is asked to place his/her chin on the chin-rest of the Yag laser. The Sunalp Yag laser lens is placed on the para limbal cornea with 90° lens corresponding to the 90° of the patient cornea. The Yag laser is focused at the mid cornea at 270° and a single laser pulse of 10 m-Joules is aimed at 270° with 1-3 pulses in line, 0.5 mm apart. The laser pulse marks the cornea with a small disruption and blanching of the stroma that remains visible for 48 hours or longer. The Sunalp Yag laser lens is a 1 cm, 12 diopter single-use, acrylic lens, which will be available in the near future.

Results: Presurgical corneal marking using the Sunalp Yag laser lens, a lens specially designed for the Yag laser, allows for accurate alignment of toric IOL during surgical implantation. The markings remain clearly visible throughout the procedure and for an additional 48 hours, giving ample time for pre op marking.

Conclusion: To avoid the pitfalls of preoperative unreliable marking with an ink pen, we have devised a method to mark the cornea using the Yag Laser. Using the Sunalp Yag laser lens, precise, durable marking can be made without the use of expensive equipment.

Biography

Murad A Sunalp has graduated from Oxford University Medical School at St. John's College and continued his Post-graduate medical education in Ophthalmology at Stanford and the University of Southern California. His most recent educational accomplishment has been an MBA at the University of Tennessee. Throughout his career he has remained up to date on medical advancements by both participating and teaching continuing medical education courses. He has provided state of the art ophthalmologic services in the San Joaquin valley for the last 30 years. He has developed innovative techniques to treat common eye diseases in a safe and effective manner.

murad.sunalp@gmail.com

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