

**SAFETY AND EFFICACY OF PROPHYLACTIC,  
ULTRAVIOLET A IRRADIATION (UVA) CROSS LINKING  
(CCL) COMBINED AT THE COMPLETION FOR HIGH RISK  
MYOPIC LASIK CASES**

---

*V. Skouteris, MD,*

*A. Kanellopoulos, MD,*

*G. Chatzilaou, MD*

*Laservision.gr Institute , Athens, Greece*

***Purpose:***

*To evaluate the safety and efficacy of ultraviolet A irradiation (UVA) cross-linking (CCL) combined at the completion for high risk myopic LASIK cases*

***Methods:***

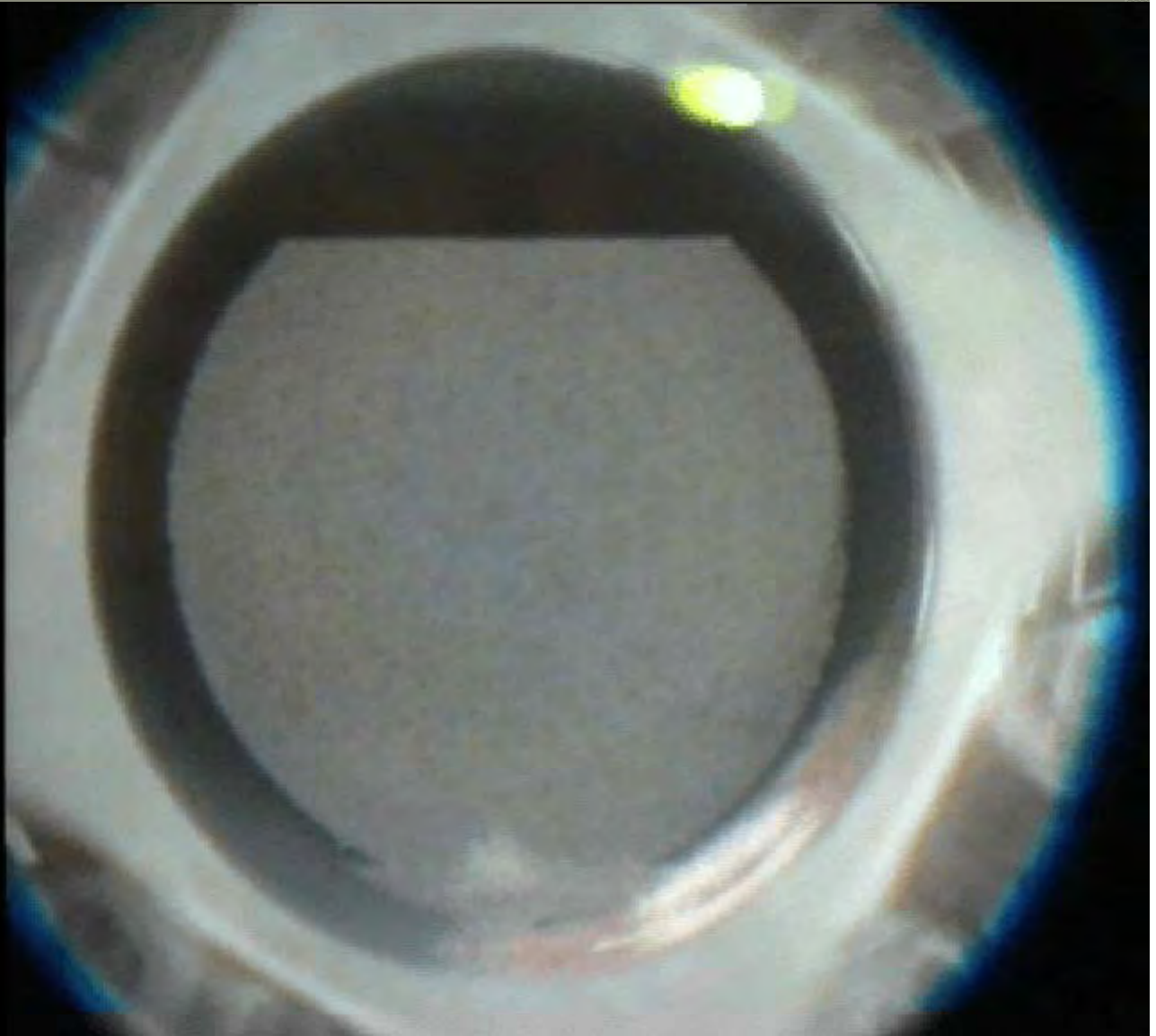
*25 LASIK cases treated with femtosecond laser flap and the Wavelight excimer platform were evaluated peri-operatively for UCVA, BSCVA, refraction, keratometry (K), topography(T), total and flap pachymetry (tP & fP), endothelium(ECC).*

*All eyes at the completion LASIK were CCL with 7mW/cm<sup>2</sup> for 10 minutes following a single instillation of 0.1% riboflavin in the flap interface.*

*Mean follow up was 1.5 years (1 to 3)*

# Video

---



---

## **Results**

*Mean values: UCVA changed from 0.2 to 1.2, BSCVA 1.1 to 1.2, spherical equivalent -7.5D to -0.2D, K: 44.5D to 38D, fP: 105, tP: 525 to 405, ECC: 2750 to 2800.*

*None of the cases developed signs of ectasia during the average 1 1/2 year follow-up (1-2.5)*

## **Conclusions**

- *Prophylactic collagen cross-linking (CCL) for high risk LASIK cases appears to be a safe and effective adjunct treatment against potential ectasia.*
- *This application may be viewed as the prophylactic customization of the biomechanic behavior of the cornea collagen*
- *It appears not to affect our treatment nomogram as all cases were within treatment goal*
- *With this novel technique we did not encountered any refractive surprises*