ESCRS 2008

Laser Refractive Surgery - 6 minutes

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Venue:Hall 2

Comparison of UCVA in standard and custom treated eyes, one year post-LASIK using the 213 nm solid state refractive laser

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Purpose: To compare the UCVA of standard and custom treated eyes, one year after LASIK using the 213 nm solid state refractive laser.

SETTING: Refractive Surgery Section, Quezon City Eye Center, Quezon City, Philippines.

METHODS: LASIK was done in 41, 19 and 26 eyes using standard, topography guided and wavefront guided treatments. The eyes were evaluated for UCVA and accuracy of correction 1 year after LASIK treatment. The UCVA were compared between treatment modalities. The correlation coefficient between target and achieved correction was calculated for each modality and compared.

RESULTS: 92.68% of the eyes treated using the standard mode had an UCVA of 20/40 or better compared to 94.74% and 96.15% for topography guided and wavefront guided modes. The average deviation from target was 0.54 D for standard treatment, 0.46 for topography guided and 0.54 fopr wavefront guided treatments. The correlation coefficient bet ween target and achieved correction was 0.98 for standard, 0.96 for topography guided and 0.97 for wavefront guided treatments.

CONCLUSIONS: Custom treated eyes showed higher proportions of UCVA of 20/40 or better. All three modalities showed precise correlation between target and achieved correction. The 213 nm solid state refractive laser is highly efficient in correcting refractive errors using standard aspheric, topo guided or WF guided parameters.