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Retreatment after PRK for low and medium myopia. Results and study of contrast sensitivity

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PURPOSE: To examine the results of retreatment with excimer laser photorefractive keratectomy (PRK) on refraction, visual acuity, haze, and contrast sensitivity.

PATIENTS AND METHODS: Excimer laser photorefractive keratectomy was performed in 18 patients, once for one eye and twice for the other eye due to undercorrection or regression. Outcome was compared between the two eyes.

RESULTS: Uncorrected visual acuity was above 20/40 in 94.4% of the retreated eyes. There was no statistical difference between the two eyes for haze and contrast sensitivity.

CONCLUSION: Retreatment with laser photorefractive keratectomy is a safe procedure and should be performed when regression or under correction occurs after the first laser excimer treatment.