Clinical Bulletin

Avellino Corneal Dystrophy Exacerbated After LASIK
Scanning Electron Microscopic Findings

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“[In patients with heterozygous ACD, the corneal deposits increase after laser in situ keratomileusis (LASIK) ... All the findings in our study indicate that the abundant deposition of abnormal material was related to LASIK in the ACD patients ... However, the existence of similar granular deposits and progression in the cornea opacities in ACD patients without LASIK suggests that the abnormal materials produced might attach to the collagen fibers of cornea, which is continuously damaged and repaired during one’s lifetime by environmental factors such as the ultraviolet light].”

A, Slit-lamp photograph of the cornea before removal of the corneal flap
E, High-magnification SEM of ACD corneal flap.