

Dry Eye After LASIK Surgery: Comprehensive Review and Update of Literature

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ABSTRACT

Laser in situ keratomileusis LASIK is an effective method to correct refractive errors; it is safe with good outcomes and few complications. Dry eye is considered by far the most common complication after LASIK. The pathophysiology of this eye dryness involves nerve damage and inflammatory processes. Treatment of dry eye is mainly by the use of artificial tears, botulinum toxin and plasma rich in growth factors. Small incision lenticule extraction SMILE is a new refractive surgery modality with better outcomes and less incidence of dry eye compared to LASIK. An extensive literature search was carried out to achieve the aim of reviewing the relevant literature and updating the current knowledge about post-LASIK dry eye incidence, symptoms, risk factors and possible treatment modalities. Studies included were from 2000 to 2023, with observational, interventional and review study designs. Case reports, case series and commentaries were excluded from this review.

Keywords: Dry eye, LASIK, refractive surgery, SMILE, Review

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