Lamellar Keratoplasty for Excision of Limbal Dermoids

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**PURPOSE**

To assess the surgical outcomes of patients that underwent limbal dermoid excision with lamellar keratoplasty.

**MATERIALS AND METHODS**

The charts of 8 consecutive patients (mean age: 13 years, range 6-33) who underwent limbal dermoid excision with lamellar corneoscleral graft transplantation were retrospectively reviewed.

Comparison of visual acuity, spherical equivalent and astigmatism before and after the surgery was done.

**RESULTS**

Indications for surgery were cosmetic appearance, high astigmatism and ocular irritation.

Mean visual acuity (in LogMAR units) before and after the surgery was 1.8 and 1.7, respectively (p=0.79). Spherical equivalent was 1.3 D before the surgery and 0.7 D after the surgery (p=0.52). The mean astigmatism before and after the surgery was 2.4 D and 1.5 D, respectively (p=0.37).

Vector analysis revealed mild change in astigmatism with mean ‘d’ of 3.2 (0.56-6.89). None of the patients had graft complications and patients had good cosmetic outcome.

**CONCLUSIONS**

Lamellar keratoplasty for limbal dermoid is safe and offers good appearance and tectonic stability.

Significant improvement in the amount of astigmatism is not expected following the surgery.

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