

**A Customized Approach for Surgical Management of
Upper Eyelid Cicatricial Entropion**

Thesis

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Abstract

Purpose: To present and evaluate the outcome of a customized approach for surgical management of upper lid cicatricial entropion that is based on addressing the commonly associated lid problems such as; dermatochalasis, brow ptosis, blepharoptosis, and lid retraction and on the post-surgical aesthetic concerns in combination with ALR with complete lid split.

Methods: Sixty eight (97lids) patients diagnosed as having cicatricial lid entropion were operated by ALR with complete lid split with simultaneous correction of associated lid problems in each case. There was concurrent dermatochalasis in 64 eyelids (66.0 %), orbicularis oculi muscle hypertrophy/blepharospasm in 22 eyelids (22.7%), blepharoptosis in 19 eyelids (19.6%), upper lid retraction in 18 eyelids (18.6%), and brow ptosis in 31 lids (30.9%). All patients were followed up for 6 months. Outcome measures included surgical success rate, preoperative and postoperative eyelid position (Palpebral fissure height), and surgery-related complications.

Results: Mean follow-up time of 17.8 months (range, 6.0–24.0 months). Concomitantly, levator tucking was performed for 19 eyelids (19.6%), upper lid retractors recession for 18 eyelids (18.6%), and internal browpexy for 31 eyelids (32.0%). The procedure was a complete success for 86 lids (90.5 %). The overall success rate for the lid surgery was 95.8% (CI: 0.85–0.96). Surgical failure occurred in 4 eyelids (4.2%) that required surgical intervention. Complications included flap necrosis (n=5), overcorrection (n= 2), recurring rubbing lashes (n= 2), and madarosis (n=2).

Conclusion: Based on the principles of lamella repositioning with addressing the associated lid problems concurrently through an upper lid crease incision, this technique is an effective and safe for the treatment of the upper eyelid cicatricial entropion.

Keywords: upper lid cicatricial ectropion, trichiasis, trachoma, associated lid problems, blepharoplasty, browpexy