Comprehensive Surgical Treatment of Visual Field Obstruction Due to Brow Ptosis: A Treatment Algorithm

Jessica A Ching, Umbareen Mahmood, Laurie B. Small, Charles B. Slonim, William L. Carter, and Paul R. Albear.

University of South Florida Morsani College of Medicine, Tampa, Florida

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Introduction

 Brow ptosis is a common aesthetic complaint which can also contribute to significant visual field obstruction^{1,2}.

 To our knowledge, there is no currently published algorithm for the surgical treatment of brow ptosis causing visual field obstruction.

Purpose

 Based on review of the literature to date and institutional experience, the authors sought to develop a surgical treatment algorithm for brow ptosis that addresses associated visual field obstruction while yielding an aesthetic result.

Methods

- A review of the literature was performed.
- Inclusion criteria included:
 - >21 years of age
 - presence of brow ptosis
 - description of the surgical technique(s) used
 - outcome data was reported
 - complete article text available in English

Methods

- Exclusion criteria included:
 - pediatric or congenital ptosis
 - preoperative facial paralysis (unilateral or bilateral)
 - revisionary or secondary brow lift procedures
 - complete article text was unavailable or not in English.

Results

• The initial literature search yielded 174 articles.

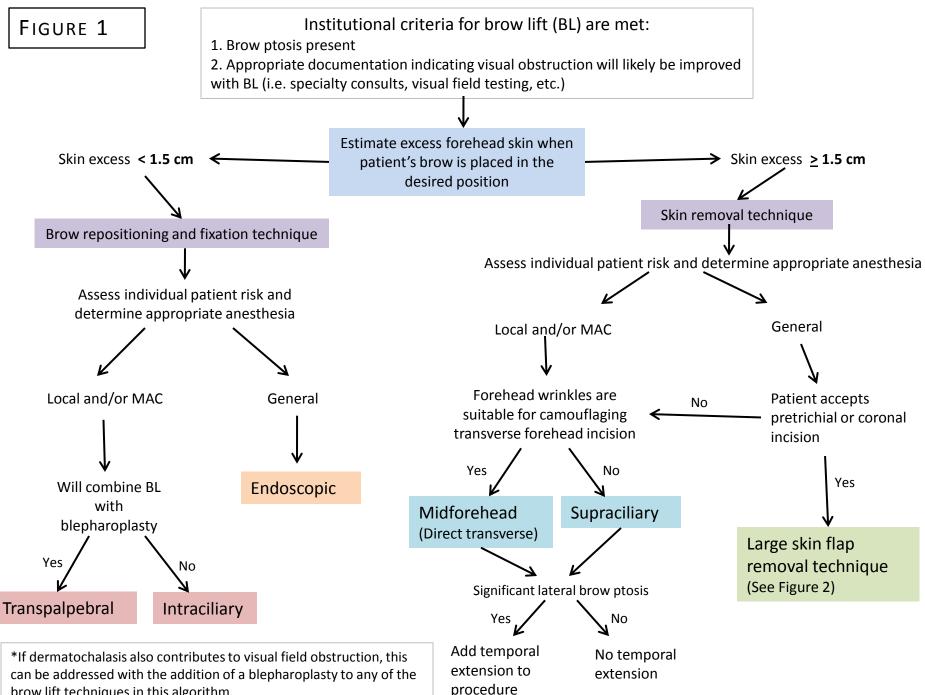
• There were 29 articles that met the inclusion and exclusion criteria.

Results

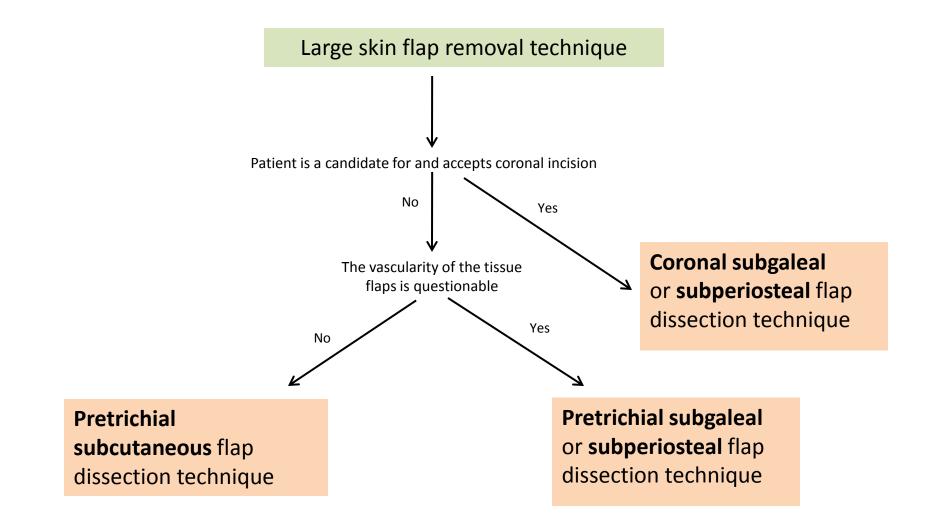
- A wide spectrum of reported techniques and outcome data exist.
- Thus, few findings were directly comparable, but they did prove useful in overall treatment guidance.

Results

 The outcomes reported in the reviewed publications were combined with our institution's experience to construct a comprehensive surgical treatment algorithm (Figures 1 and 2).



brow lift techniques in this algorithm.



*If dermatochalasis also contributes to visual field obstruction, this can be addressed with the addition of a blepharoplasty to any of the brow lift techniques in this algorithm.

Conclusion

 Utilizing available literature on brow ptosis and our institution's experience, the authors describe a comprehensive treatment algorithm that effectively addresses the functional and aesthetic issues of visual obstruction due to brow ptosis.

References

- Knize DM. Anatomic concepts for brow lift procedures. *Plast Reconstr Surg.* 124(6):2118-26; 2009.
- Mellington F, Khooshabeh R. Brow ptosis: are we measuring the right thing? The impact of surgery and the correlation of objective and subjective measures with postoperative improvement in quality-of-life. *Eye (Lond).* 26(7):997-1003; 2012.