

Partial versus complete resection of the m. corrugator in the surgical treatment of migraine headaches

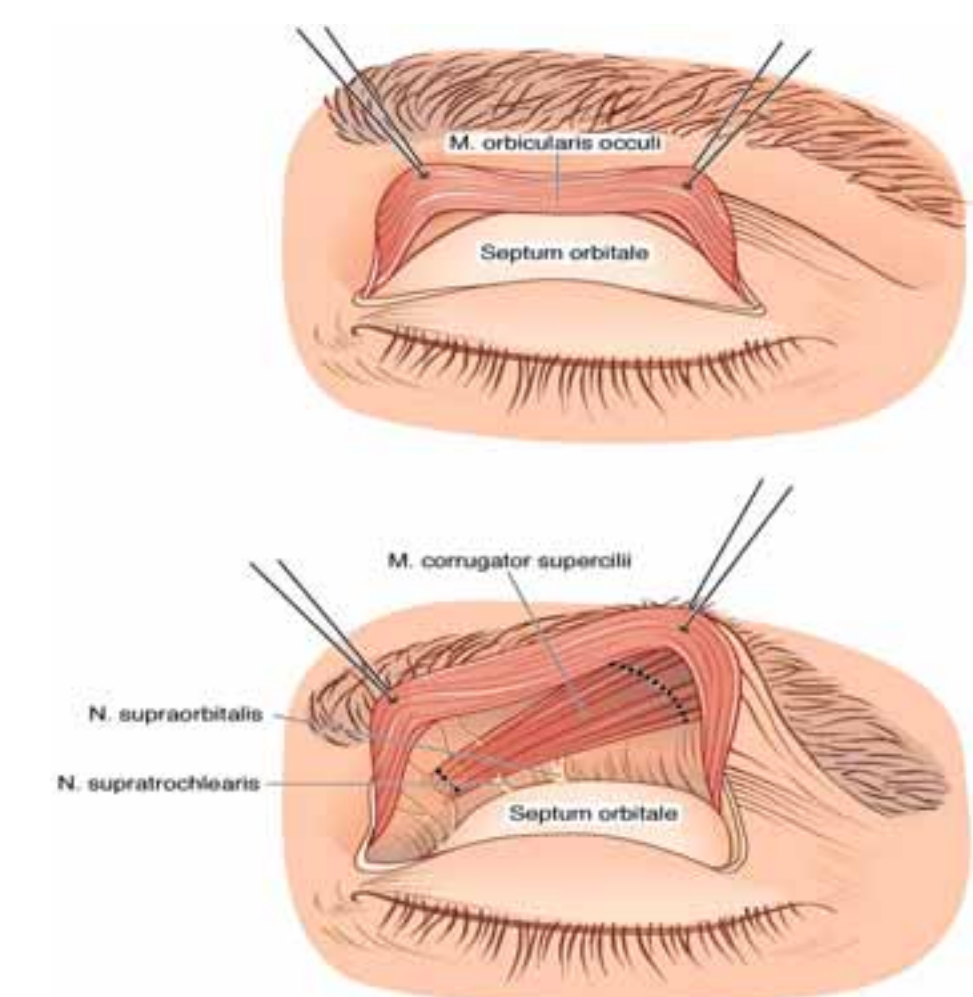
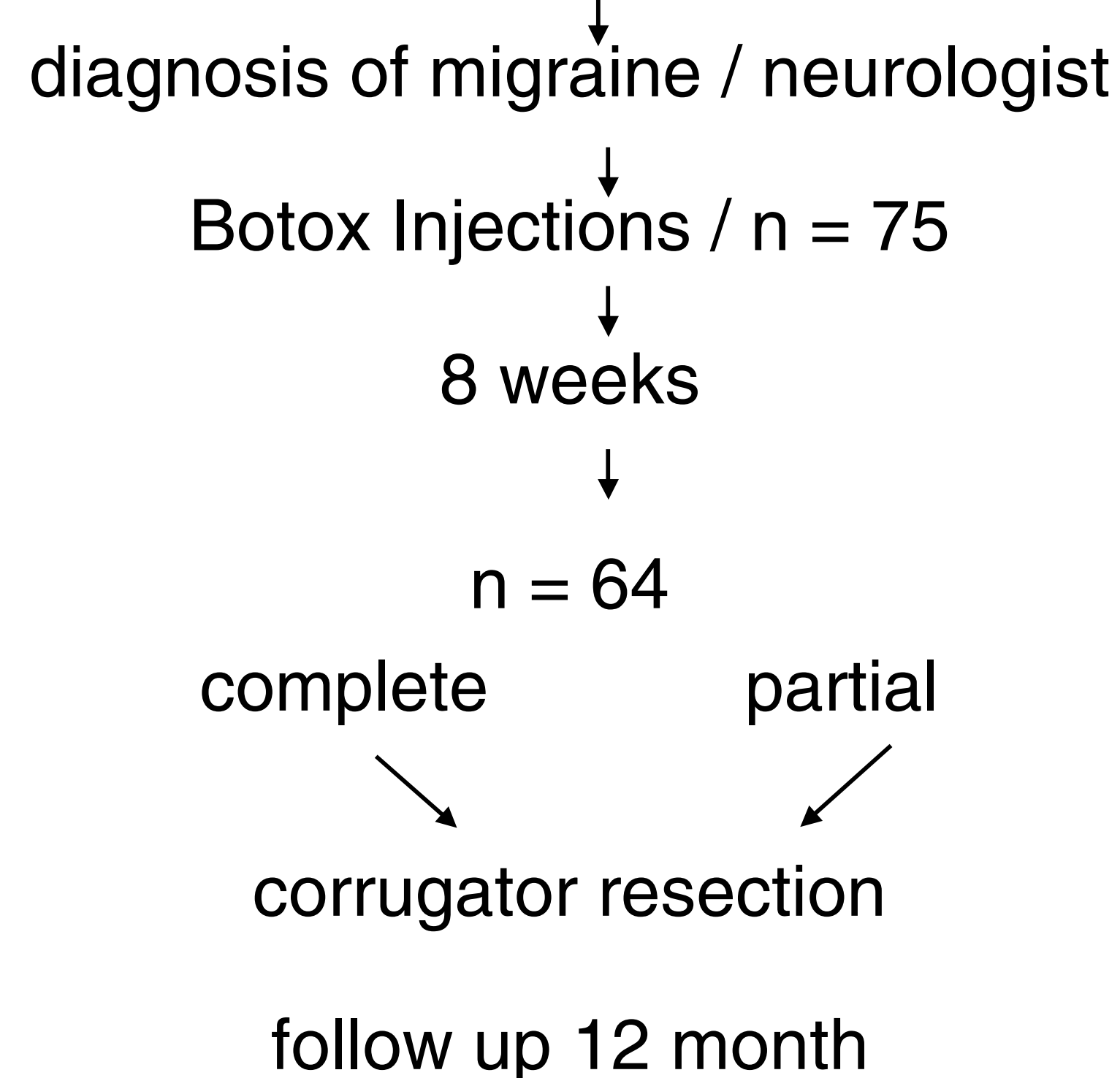
Muehlberger T, Toman N, Eichhorn-Sens J

Department of Plastic- and Hand Surgery, Park-Klinik Weissensee, Charité Medical School Berlin

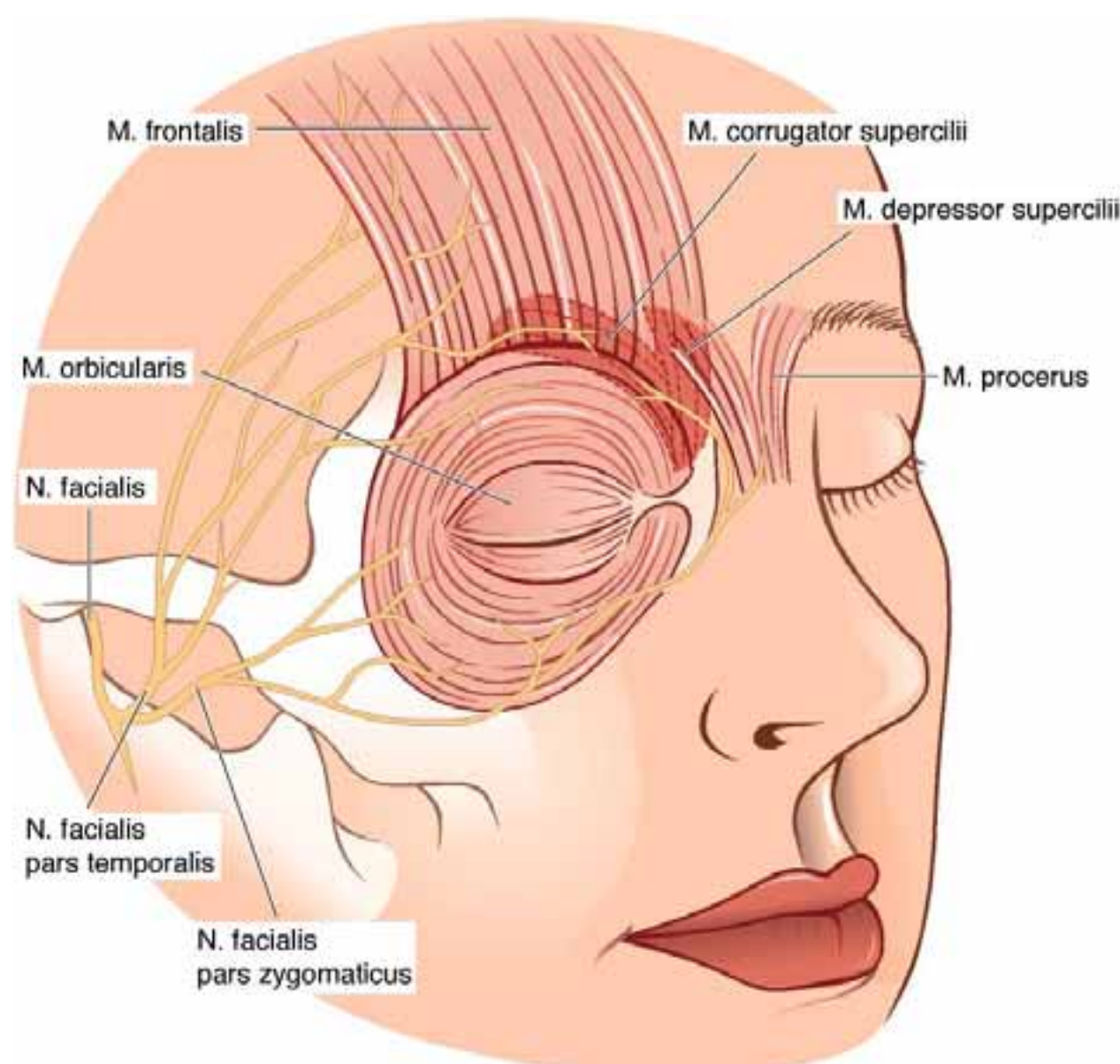
Objective

This prospective, randomized study was conducted to compare the efficacy of a complete, transpalpebral resection of the corrugators with the partial removal of these muscles at their medial and lateral aspects thus performing a complete denervation

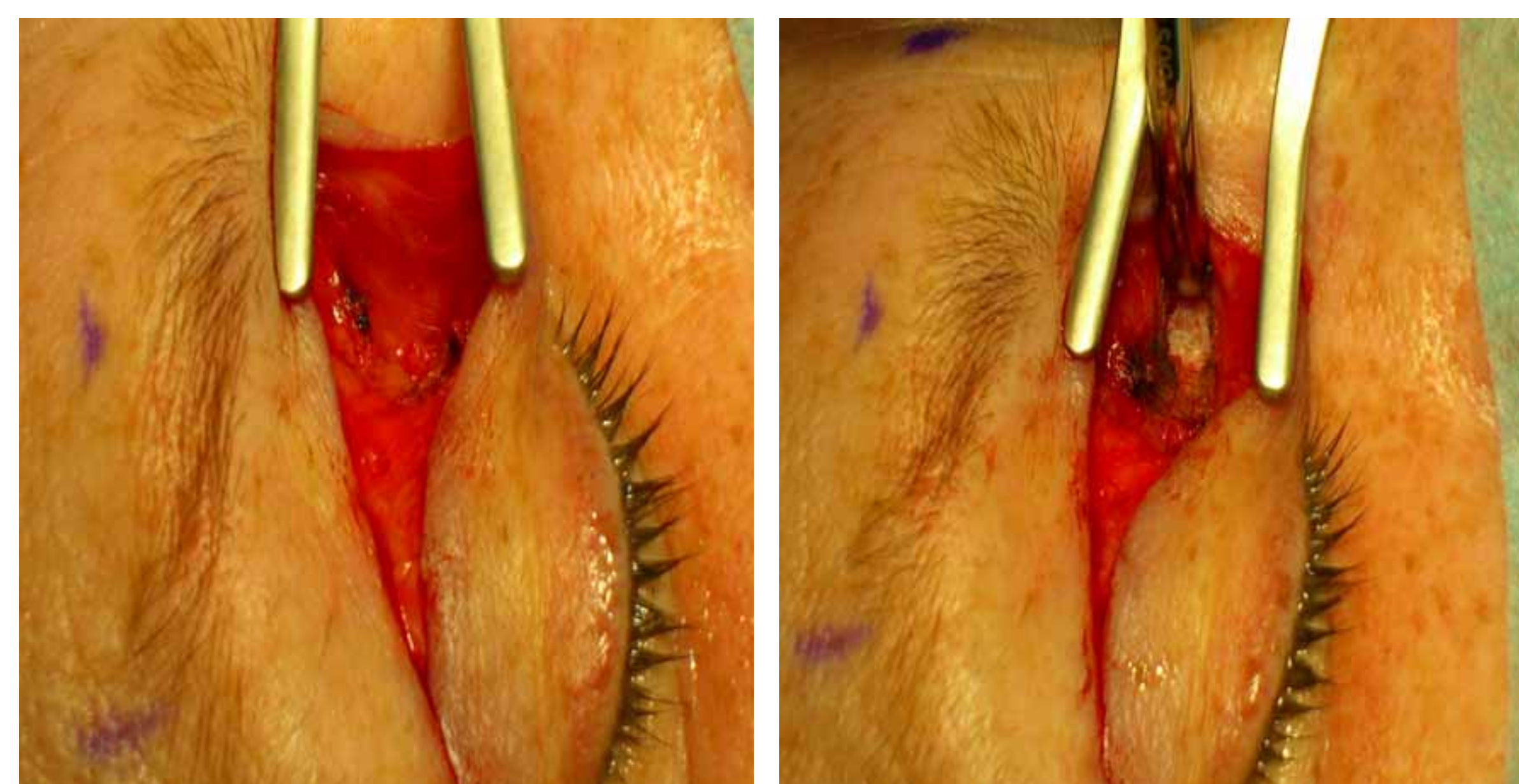
Methods



transpalpebral approach for complete corrugator resection



dual nerve supply of the corrugator



Periosteal window at the medial origin

Demographics

- f 57 / m 7
- age 21-61
- mean age 52,3 ± 2,8
- migraine attack frequency
- pain intensity
- medications



Transsection of the corrugator at the lateral insertion

Linkage analysis

- Advanced age is a negative predictive factor
- 89 % of „failures“ were grade IV migraine patients
- 78 % of „failures“ had a migraine history > 20 years

Conclusions

- no significant differences between partial versus complete resection
- no clinically detectable perineural scarring
- partial resection is easier and quicker with less swelling
- the selection of patients is more relevant than the surgical method

Results

