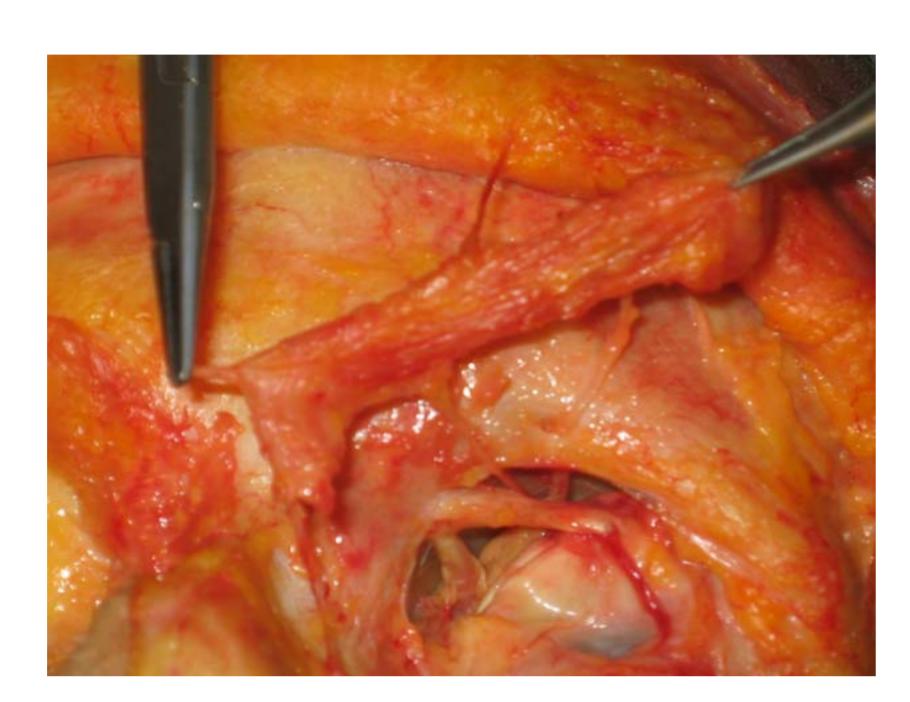


ADEMISCHES LEHRKRANKENHAUS DER CHARIT

Background:

The transpalpebral resection of corrugator and depressor the supercilii muscles is new а treatment option for migraine headaches.

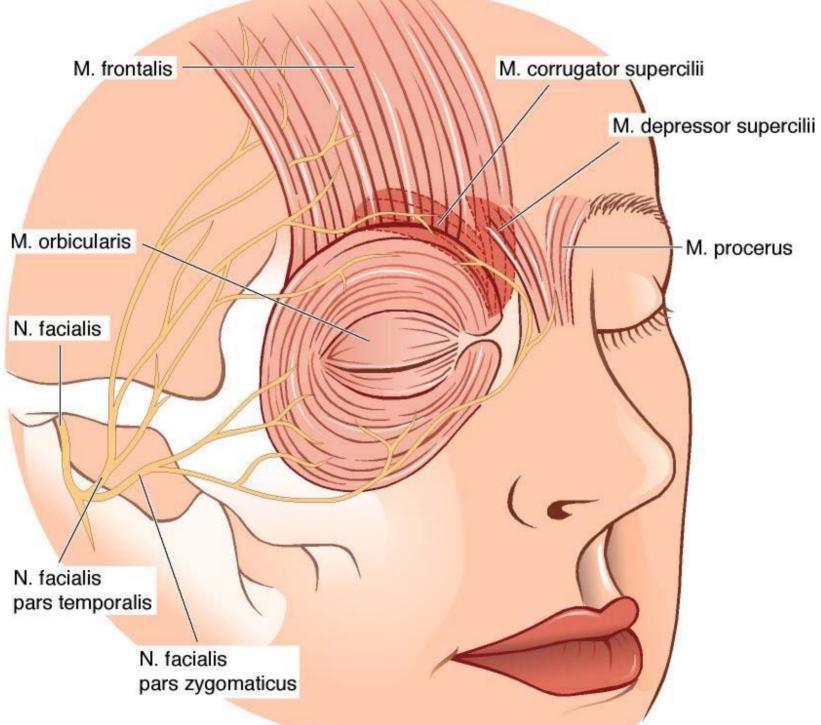
Hyperactive contractility of these muscles can provoke the peripheral compression of the supratrochlear nerve and induce a neurogenic inflammation triggering the symptoms of migraine





Dual nerve supply through branches of the facial nerve.

medially-zygomatic VII laterally-temporal VII



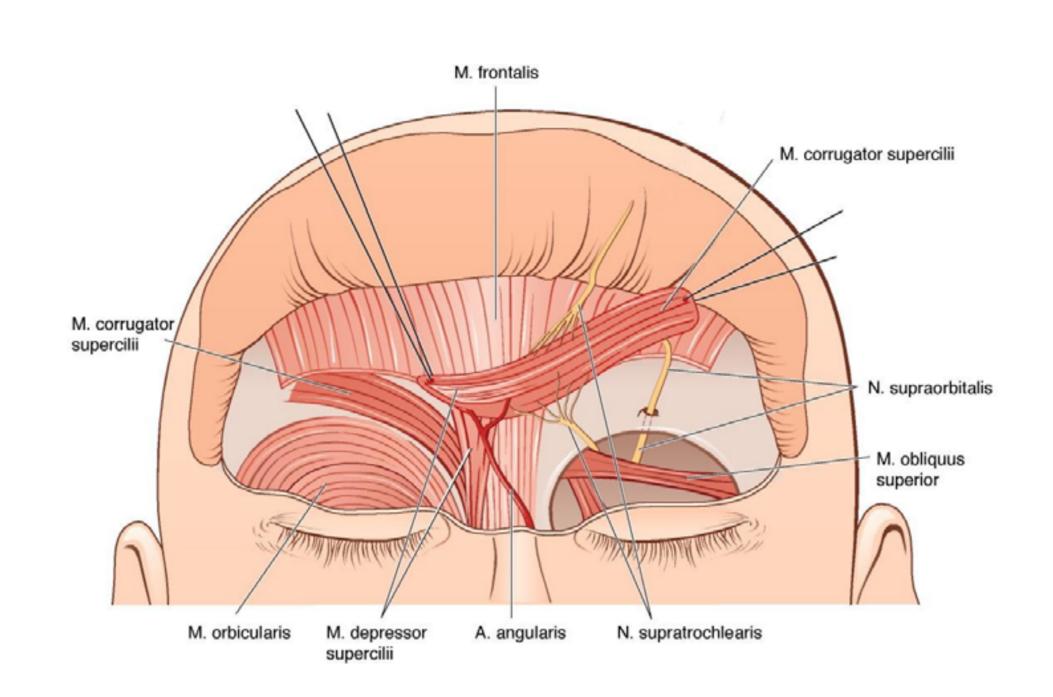


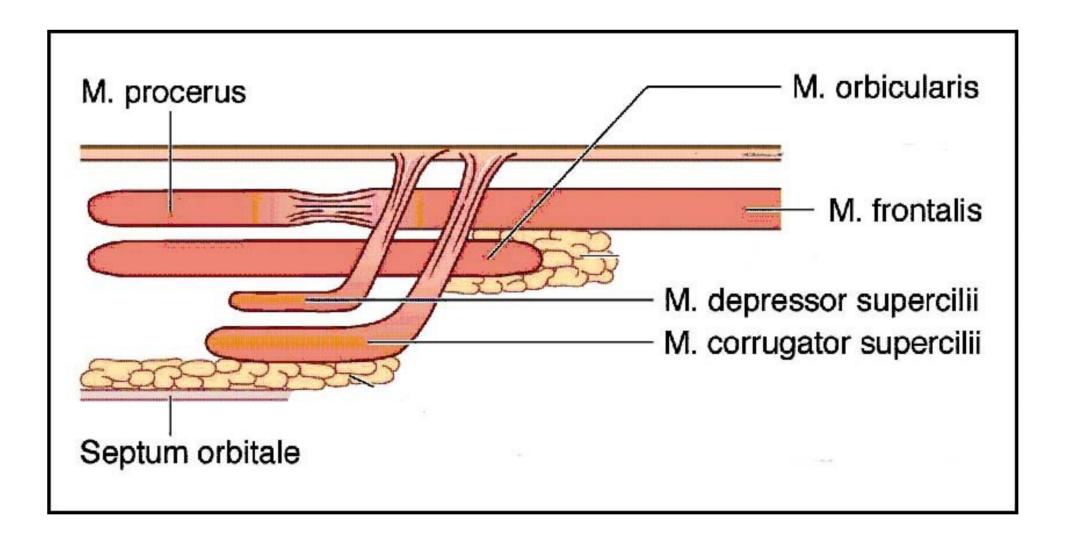
Corrugator with penetrating supratrochlear nerve

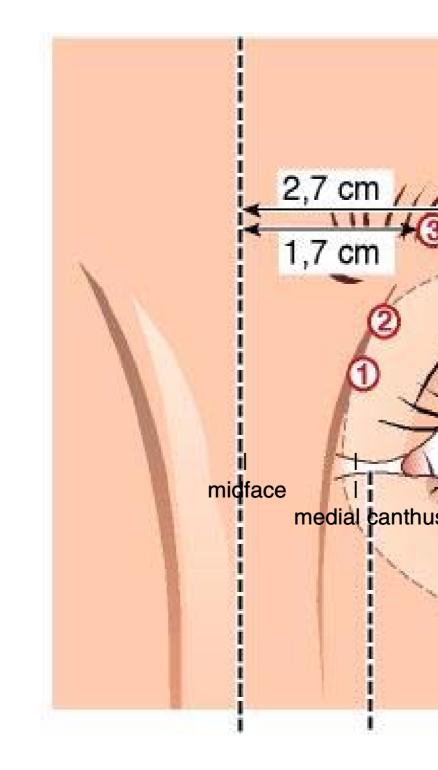
The anatomy of the surgical treatment of migraine

Muehlberger T, Eichhorn-Sens J, Toman N, Fischer P Department of Plastic- and Hand-Surgery, Park-Klinik Weissensee, Charité Medical School, Berlin

Cadaver dissection and corresponding legend







Instant anatomy:

Mass and length of the corrugator are highly variable

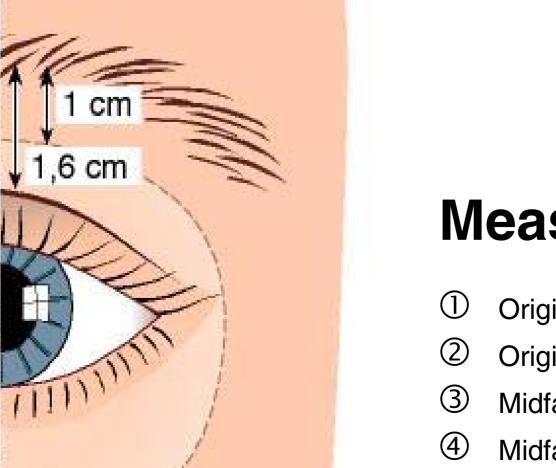
- the corrugator is penetrated by the supratrochlear nerve and runs over the supraorbital nerve
- the corrugator pierces the orbicularis and frontalis muscles separated by general fat pads to achieve extraordinary glabella mobility

Anatomical layers:

3 paired muscles acting in the glabella region

Superficial middle deep

- orbicularis
- corrugator and depressor



Measurement:

- Origin of the depressor supercilii; 1,0 cm above the medial canthus
- Origin of the corrugator supercilii; 1,4 cm above the medial canthus
- Midface-supratrochlear nerve; 1,7 cm
- Midface-supraorbital nerve; 2,7 cm

CHARITÉ

- procerus and frontalis