

Transpalpebral approach

see [Transpalpebral Approach for Tuberculum Sellae Meningioma](#).

Transpalpebral or [transeyelid approach](#) is a modified transorbital access to lesions of [anterior cranial fossa](#) and sellar region. But whether this approach is also suitable for tumors extending laterally to the temporal lobe or middle cranial fossa is not clarified. Xie et al. would like to share experiences from the cadaveric anatomy study to clinical operations. They used 5 cadavers to study trans-eyelid approaches in a step-by-step fashion. And then assisted by an experienced ophthalmologist for incisions, we treated 3 female patients via this approach: One with spheno-orbital meningioma, one with sellar tuberculum meningioma, and the other with medial sphenoidal wing meningioma. After studying the cadavers, we made several revisions to the previously reported approach: 1) move the incision close to the edge of the eyelid, which resembled the double-eyelid incision. 2) A vascularized periosteum flap was dissected for repairing the opened frontal sinus and reconstruction of the skull base. 3) The dura was sutured up with a slice of temporalis muscle. Then we treated 3 patients by this approach. All tumors were totally resected as Simpson Grade I. Complications included orbital apex syndrome and transient oculomotor paralysis because of tumor invasion into orbit and cavernous sinus. No cerebrospinal fluid leakage. We find that trans-eyelid approach is suitable for lesions not only at anterior cranial base or sellar region, but also extending to middle cranial base, especially around sphenoidal wings within 2 cm range or spheno-orbital region. Thus, they propose whether it appropriate to nominate this approach as 'transeyelid pterional approach', since it may treat some anterior and middle cranial fossa lesions with a minicraniotomy around pterion ¹⁾.

¹⁾

Xie Q, Wang DJ, Sun L, Mao Y, Zhong P, Zheng MZ, Tang HL, Zhu HD, Chen XC, Zhou LF, Gong Y. Minimal invasive trans-eyelid approach to anterior and middle skull base meningioma: a preliminary study of Shanghai Huashan hospital. *Int J Clin Exp Med*. 2014 Nov 15;7(11):3974-82. eCollection 2014. PubMed PMID: 25550905; PubMed Central PMCID: PMC4276163.

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