

Temporalis muscle volume

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A study aims to compare the effects of [osteoplastic craniotomy](#) on [temporalis muscle](#) and [bone graft](#) atrophy in patients operated on with a [pterional approach](#) to the [standard](#) technique. Patients operated on for an intracranial aneurysm with a [pterional approach](#) between 2014 and 2018 were studied. Following the exclusion criteria, 36 patients were included in this retrospective study. Temporalis muscle volume and bone graft volume were calculated. The volumes were compared from preoperative and postoperative computed tomography images for the [temporalis muscle](#) and from early and late postoperative computed tomography images for the bone graft. The osteoplastic craniotomy group (group I) had 17 patients, and the standard craniotomy group had 19 patients (group II). Temporalis muscle volume and bone graft volume decreased statistically significantly in group II after surgery. However, no significant volume difference was found in group I measurements. When compared with the standard technique, osteoplastic craniotomy reduces the likelihood of postoperative temporalis muscle and bone graft atrophy in patients undergoing [pterional craniotomy](#). As a result, the patients' cosmetic and functional well-being is improved ¹⁾.

¹⁾
Kalemci O, Kizmazoglu C, Karabay N, Ur K, Ozyoruk S, Coskun E, Ozer E, Erbayraktar S. Effects of Pterional and Osteoplastic Craniotomy on Temporalis Muscle and Calvarial Bone Graft Atrophy. J Craniofac Surg. 2023 Sep 4. doi: 10.1097/SCS.00000000000009728. Epub ahead of print. PMID: 37669471.

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