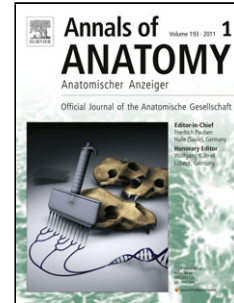


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Anatomical connections between the buccinator and the tendons of the temporalis

Abbreviated title (running headline): Connections between the buccinator and the tendons of the temporalis

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Abstract

The aim of this study was to clarify the anatomical relationship between the buccinator and the temporalis in order to improve understanding of the precise and coordinated movements of the mouth and the mandible. The buccinator and the temporalis were investigated in 72 hemifaces from Korean cadavers. Removing the buccal fat pad from the buccinator revealed that the fascia encircled the space between the superficial and deep tendons of the temporalis laterally, and the external surface of the buccinator medially in all specimens (100%). The fascia was located between the buccinator and the tendons of the temporalis, thereby connecting these two muscles. The fascial space was filled with connective tissue, and the buccal nerve and artery passed through this space. The inferior fibers of the buccinator arose from the anterior portion of the deep tendon of the temporalis in all specimens

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