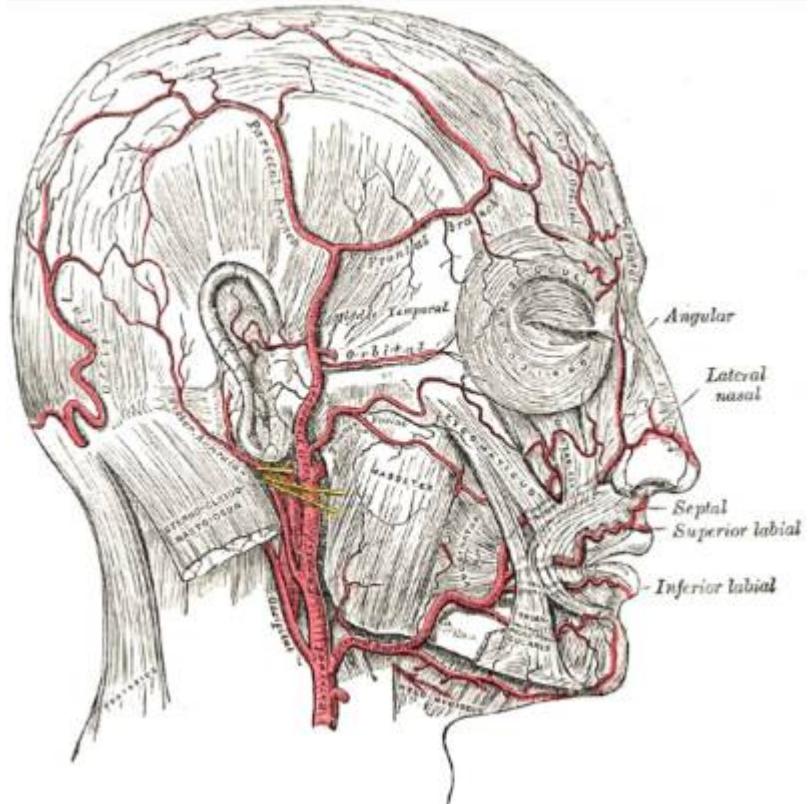


Superficial temporal artery



- Analysis of risk factors for the occurrence of rebleeding following surgery for haemorrhagic moyamoya disease
- Progressive thrombosis and involution of a pediatric giant middle cerebral artery pseudoaneurysm following superficial temporal artery-to-middle cerebral artery bypass: illustrative case
- Endoscopic Transorbital Extended Middle Fossa Approach: A Potential Addition to the Lateral Skull Base Surgical Armamentarium-Anatomic Feasibility Study
- Intraorbital arteriovenous fistulas: illustrative case
- Indirect surgical revascularization for management of vascular steal phenomenon in high-grade untreatable brain arteriovenous malformations
- Pseudoaneurysm development in extracranial-intracranial bypass surgery: Diagnostic challenges and surgical solutions
- Diagnosis and Management Guidelines for Moyamoya Disease
- Direct Bypass for Moyamoya Disease

Major [artery](#) of the head. It arises from the [external carotid artery](#) when it bifurcates into the [superficial temporal artery](#) and [maxillary artery](#).

Its pulse is palpable superior to the [zygomatic arch](#), anterior, and superior to the [tragus](#).

The STA coursed over the zygomatic arch or over the condylar process of the mandible in all cases (25/25 pts, 100 %). The STA courses over the posterior zygomatic arch in 23/25 pts (92 %), creating a characteristic "C" shape half-buttonhole configuration as it embraces the arch. When the STA travels posterior to the zygomatic arch, there is no C shape configuration (2/25 pts, 8 %). The STA bifurcates distal to the zygomatic arch in 24/25 pts (96 %).

The “C” shape half-buttonhole configuration is a useful identifying characteristic of the most common course of the STA-over the posterior zygomatic arch before it bifurcates ¹⁾.

Branches

The superficial temporal artery is the smaller of two terminal branches that bifurcate superiorly from the external carotid. Based on its direction, the superficial temporal artery appears to be a continuation of the external carotid.

It begins in the substance of the [parotid gland](#), behind the neck of the mandible, and passes superficially over the posterior root of the zygomatic process of the temporal bone; about 5 cm. above this process it divides into two branches, a frontal and a parietal.

As it crosses the zygomatic process, it is covered by the Auricularis anterior muscle, and by a dense fascia; it is crossed by the temporal and zygomatic branches of the facial nerve and one or two veins, and is accompanied by the auriculotemporal nerve, which lies immediately behind it.

[Superficial temporal artery frontal branch](#)

[Superficial temporal artery parietal branch](#)

Clinical relevance

see [Superficial temporal artery graft](#).

Anastomoses

The superficial temporal artery anastomoses with (among others) the supraorbital artery of the internal carotid artery.

see [Superficial temporal artery to superior cerebellar artery bypass](#).

Superficial temporal artery pseudoaneurysm

[Superficial temporal artery pseudoaneurysm](#).

Superficial Temporal Artery Middle Cerebral Artery Bypass

[Superficial temporal artery to middle cerebral artery bypass](#)

¹⁾

Cobb MI, Galvin L, Gonzalez LF. Superficial temporal artery: the “C” shape half-buttonhole configuration as it courses over the zygomatic arch. Surg Radiol Anat. 2015 Aug 12. [Epub ahead of print] PubMed PMID: 26264582.

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