

# Occipital artery bypass

[Superficial temporal artery to middle cerebral artery bypass](#) helps treat [cerebral ischemia](#). However, the [Superficial temporal artery](#) is not available for bypass in some conditions. Therefore, with some technical [tips](#), Hong et al. introduced a [bypass](#) technique using the [occipital artery](#) (OA).

Two female patients complained of [hemiparesis](#). [Brain magnetic resonance imaging](#) (MRI) indicated contralateral infarction from the MCA steno-occlusion. On Diamox single photon emission computed tomography or perfusion MRI, the contralateral front parietotemporal reserve was diminished. On transfemoral cerebral angiography, the STA was thin with a weak flow; however, the OA was prominent. Direct OA-MCA end-to-side extracranial-intracranial bypass surgery was implemented instead of STA because the caliber was too narrow. The postoperative course was uneventful in both cases, with well-maintained bypass patency and neurological stability during follow-up.

Conclusion: OA might be an acceptable alternative for MCA cerebral ischemic cases with an unsuitable STA <sup>1)</sup>

<sup>1)</sup>

Hong JH, Jung SC, Ryu HS, Kim TS, Joo SP. Occipital artery bypass importance in unsuitable superficial temporal artery: Two case reports. World J Clin Cases. 2023 Mar 26;11(9):2091-2097. doi: 10.12998/wjcc.v11.i9.2091. PMID: 36998961; PMCID: PMC10044959.

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