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## Clinical Manifestations of Isolated Chronic Middle Cerebral Artery Occlusion in Relation to Angiographic Features

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**Short title:** Angiographic feature of chronic MCA occlusion

**Key words:** middle cerebral artery occlusion; collateral; angiography; stroke; perfusion

### Abbreviations

AF: antegrade collateral flow

ChMCAO: chronic middle cerebral artery occlusion

CTA: computed tomography angiography

CVR: cerebral vascular reserve

DSA: digital subtraction angiography

EIAB: extracranial intracranial artery bypass surgery

MRA: magnetic resonance angiography

OEF: oxygen extraction fraction

PCS: pial collateral score

PET: positron-emission tomography

SPECT: single-photon emission computerized tomography

3DRA: 3-dimensional rotational angiography

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