

M. Furuno
N. Yamakawa
M. Okada
S. Waga

Anomalous origin of the calcarine artery

Received: 29 June 1994
Accepted: 8 August 1994

M. Furuno (✉) · N. Yamakawa · M. Okada
Department of Neurosurgery,
Kuwana Municipal Hospital,
435 Kitabessho, Kuwana-shi, Mie 511,
Japan

S. Waga
Department of Neurosurgery,
Mie University School of Medicine,
Tsu, Mie, Japan

Abstract We report an extremely rare, anomalous origin of the calcarine artery directly from the internal carotid artery.

Key words Calcarine artery · Anomalous origin · Cerebral angiography · Congenital anomaly

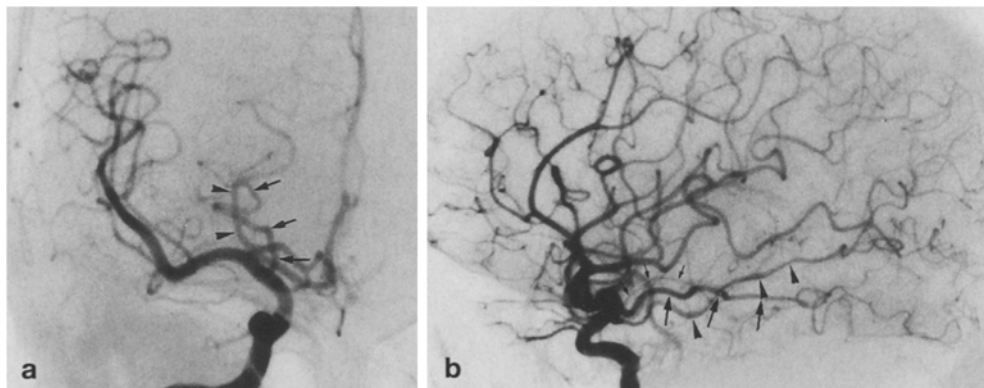
Case report

A 62-year-old woman was admitted because of sudden severe headache. CT revealed subarachnoid haemorrhage and carotid angiography showed an aneurysm at the origin of the left posterior communicating artery. The right internal carotid artery gave the direct origin to the calcarine artery (Fig. 1), which did not fill from the right posterior cerebral artery on vertebral angiography.

Discussion

Anomalous origin of cortical branches of the posterior cerebral artery is extremely rare. There have been reports of three cases in which the internal carotid artery gave anomalous origin to cortical branches of the posterior cerebral artery [1–3]: the parieto-occipital, posterior temporal and temporo-occipital arteries, arising directly from the internal carotid artery. As far as we know, this is the first report of the internal carotid artery giving direct origin to the calcarine artery.

Fig. 1 Right carotid angiogram (a anteroposterior, b lateral projections) demonstrating the calcarine artery (large arrows) arising from the internal carotid artery (arrowheads posterior cerebral artery, small arrows anterior choroidal artery)



References

1. Buxton PJ, Cook PL (1993) Anomalous origin of the parieto-occipital artery. *Neuroradiology* 35: 112
2. Hoyt WF, Newton TH, Margolis MT (1974) The posterior cerebral artery. In: Newton TH, Potts DG (eds) *Radiology of the skull and brain, vol2, book 2*. Mosby, St Louis, pp 1544–1550
3. Wollschlaeger G, Wollschlaeger PB (1974) The circle of Willis. In: Newton TH, Potts DG (eds) *Radiology of the skull and brain, vol2, book 2*. Mosby, St Louis, pp 1173–1178