Clip reconstruction of an 8 cm giant internal carotid artery bifurcation aneurysm: microsurgical technique

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Thrombosed giant intracranial aneurysms usually present with symptoms and signs from their mass effect. Although multiple treatment options are available, direct clip reconstruction with thromboendarterectomy remains the gold standard. Here we present a 66-year-old man with seizure, aphasia and hemiparesis. Work-up revealed a giant partially thrombosed aneurysm of the internal carotid artery bifurcation with surrounding vasogenic edema. He underwent clip reconstruction of the aneurysm via a cranio-orbital approach. Although we prepared for bypass with the radial artery and/or the superficial temporal artery, we were able to clip-reconstruct the aneurysm without bypass. The patient improved upon his pre-morbid state after surgery and made an excellent recovery.

The video can be found here: http://youtu.be/P_10hRQFuPo.

KEY WORDS intracranial aneurysm; giant aneurysm; thromboendarterectomy; microsurgical clipping; internal carotid artery