

# Intracranial revascularization surgery

Outcomes of endovascular [revascularization](#) were compared between directly admitted and transferred patients using data from a national database and the Mayo Clinic, [Rochester, Minnesota, USA](#).

118 institutions within the database reported outcomes of 8533 inpatient admissions for endovascular treatment of AIS. Mortality rate (14.9% vs 18.6%;  $p=0.049$ ) and mortality index (1.1 vs 1.6;  $p=0.048$ ) were significantly lower among directly admitted patients than among transferred patients. Within our institutional cohort of 140 patients who underwent endovascular therapy, directly admitted patients had a significantly faster time to revascularization than transferred patients (277.4 vs 420.4 min;  $p\leq 0.0001$ ). Among transferred patients, an increasing distance of transferred hospital to our home institution was associated with an increasing risk of mortality (unit OR=1.26, 95% CI 1.07 to 1.54;  $p=0.0061$ ).

Outcomes of revascularization may improve with methods to identify patients with large vessel occlusion before hospital admission, thus increasing the likelihood of initial triage to a comprehensive stroke center for patients eligible for endovascular intervention <sup>1)</sup>.

## Indications

Intracranial [revascularization](#) surgeries are an effective treatment for [moyamoya disease](#) and other intracranial vascular obliterative diseases.

see [Direct bypass surgery for moyamoya disease](#).

see [cerebral revascularization](#)

Revascularization of the [posterior cerebral artery](#) (PCA) can be essential for treating complex cerebral aneurysms in the posterior circulation, and it is considered technically challenging.

<sup>1)</sup>

Rinaldo L, Brinjikji W, McCutcheon BA, Bydon M, Cloft H, Kallmes DF, Rabinstein AA. Hospital transfer associated with increased mortality after endovascular revascularization for acute ischemic stroke. J Neurointerv Surg. 2016 Dec 16. pii: neurintsurg-2016-012824. doi: 10.1136/neurintsurg-2016-012824. [Epub ahead of print] PubMed PMID: 27986846.

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