radial cut-down), which was significantly less than femoral DSA minor adverse events (p=0.0001). Radial to femoral conversion rate was 1.2% (7/607, 2 radial spasms, 2 unsuccessful radial artery access, 3 aberrant right subclavian artery). Femoral to radial conversion rate was 0.3% (2/635). From March 2019 to February 2020, the proportion of DSA performed via transradial access increased from 36% to 78% at our institution.

Conclusion This study demonstrates the learning curves for both TRA and TFA diagnostic cerebral angiograms. Proficiency improves significantly with either type of access, typically requiring between 25–50 procedures. TRA DSA have significantly less access site complications than TFA DSA.


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**E-106**

**Efficacy of Asahi Fubuki as a Guiding Catheter for Mechanical Thrombectomy: An Institutional Case Series**

1L Rinaldo*, 2H Cloft, 3W Brinjikji. 1Neurosurgery, Mayo Clinic, Rochester, MN; 2Radiology, Mayo Clinic, Rochester, MN; 3Radiology and Neurosurgery, Mayo Clinic, Rochester, MN

E-106/10.1136/neurintsurg-2020-SNIS.139

**Background** Delivery of a guiding catheter to a suitable position is a critical step in performing mechanical thrombectomy (MT) for treatment of acute stroke secondary to large vessel occlusion. Over the past several years, we have employed the Asahi Fubuki (Asahi Intecc Co., LTD, 1976) as a first-line guide catheter for the performance of MT. Herein, we reviewed the treatment outcomes of MT cases in which the Fubuki was utilized to assess the efficacy of this catheter.

**Methods** Radiology reports of MT for the treatment of acute stroke secondary to large vessel occlusion during which the Fubuki was employed as a guide catheter were retrospectively reviewed. Information on patient characteristics and treatment outcomes was collected. Predictors of failure to deliver the Fubuki to the cervical internal carotid artery (ICA) were identified using logistic regression analysis.

**Results** There were 124 patients who met the inclusion criteria for analysis. Mean patient age was 77.8 years and a slight majority of patients were female (50.8%). Large vessel occlusion occurred most often at the M1 segment (41.1%) and most occlusions occurred on the patient’s right side (57.5%). The Fubuki was successfully delivered to the cervical ICA in 121 cases (97.6%), and the lesion was successfully crossed with the Fubuki as the guide catheter in 119 cases (96.0%). Herniation of the Fubuki into the aortic arch after delivery to the cervical ICA and cross-over to another guide catheter each occurred once (0.8%) in separate cases. Greater than or equal to TICI 2B revascularization was achieved in 100 patients (80.6%). Median times to lesion crossed and revascularization were 9 and 19 minutes.

**Conclusion** Our results indicate that the Asahi Fubuki is an effective guide catheter for the performance of MT.

Disclosures L. Rinaldo: None. H. Cloft: None. W. Brinjikji: None.

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**E-107**

**Predictors of Decompressive Hemicraniectomy in Successfully Recanalized Patients with Anterior Circulation Emergency Large Vessel Occlusion**


E-107/10.1136/neurintsurg-2020-SNIS.140

**Background and Purpose** Mechanical thrombectomy (MT) is demonstrated to improve functional outcome of patients with anterior circulation strokes with emergency large vessel occlusion (ELVO). Despite successful recanalization (SR), a proportion of these patients require decompressive hemicraniectomy (DHC). We aimed to study the predictors of DHC in successfully recanalized anterior circulation ELVO patients.

**Methods**Consecutive anterior circulation ELVO patients treated with MT during a 6-year period in a tertiary stroke center were evaluated. Only patients with SR (mTICI 2b, 2c or 3) after MT were included in the analysis. Baseline demographic, clinical and procedural variables were compared between the patients who required DHC after successful recanalization vs. who did not. Collaterals for anterior circulation ELVO (ie, poor (collateral score=0) vs. good (collateral score=1, 2 and 3) were reported using a methodology that has been shown to predict clinical outcome. Good functional outcome was defined as mRS score of 0–2 at 3 months. Univariable and multivariable logistic regression analyses were used to determine the predictors of DHC.

**Results**Of 453 successfully recanalized anterior circulation ELVO patients, 47 underwent DHC (mean age 58±13 years, 53% male, median admission NIHSS-score: 17 points, IQR 13–21). The patients in DHC group were younger in age (mean age in years±SD; 58±13 vs. 65±15, p=0.004), had higher admission systolic blood pressure (mmHg: 167±33 vs. 155±30, p=0.010), higher admission diastolic blood pressure (mmHg: 95±28 vs. 87±19, p=0.019), higher admission blood glucose levels (mg/dl: 170±88 vs. 142±66, p=0.008), similar median admission NIHSS (17 (IQR: 13–21) vs. 15 (IQR: 11–20), p=0.087), lower median ASPECTS (9 (IQR: 8–10) vs. 10 (IQR: 9–10), p=0.002), and poor collaterals on pre-treatment CT angiogram (% with poor collaterals: 75% vs. 26%, p<0.001) compared to those who did not require DHC. The DHC group required more passes during MT (median: 3 (IQR: 2–4) vs. 2 (IQR 1–2), p=0.001), had longer groin to recanalization time (mean: 74±32 vs. 55±35, p<0.001), while no difference was seen in symptoms onset to groin puncture time (mean: 313±166 vs. 304±202, p=0.784) compared to the non-DHC group. The patient in DHC group tended to have a higher sICH rate (15% vs. 7%, p=0.20), higher 3 months mortality (41% vs. 16%, p=0.031), poor collaterals on CT angiography (OR per 1 mg/dl increase: 1.01; 95% CI: 1.00–1.01, p=0.031), poor collaterals on CT angiography (OR: 0.13; 95% CI: 0.05–0.32, p<0.001), and higher number of passes during MT (OR per 1 pass increase: 4.84; 95% CI: 3.09–7.58, p<0.001) emerged as independent predictors of DHC in successfully recanalized ELVO patients.

**Conclusion**Higher blood glucose levels on admission, poor collateral pattern on CT angiography and higher number of
Background and Aims The risk of ischemic stroke from a symptomatic stenotic intracranial artery is high despite best medical therapy (BMT). Clinicians have increasingly turned to percutaneous transluminal angioplasty and stenting (PTAS) over the last decades as an alternative therapy in high-risk patient with symptomatic ICAS. We evaluated long-term clinical outcome and restenosis rate with atherosclerotic intracranial stenosis using the Wingspan self-expanding nitinol stent system.

Methods The patients treated with the Wingspan in two medical centers from January 2010 to December 2016 were enrolled. Target patients were affected by high-grade, symptomatic, intracranial atherosclerotic lesions, were on antithrombotic therapy and undergoing treatment (EVT) for large vessel occlusion in patients with acute ischemic stroke. Through our previously published study (EVT period). The rate of home discharge was 26.4% (p<0.0001). There was a decrease in the likelihood of any stroke or death within 30-days was 7%. The frequency of any stroke or death after 30-day was also 7% at mean 58.7 months follow up period. The frequency of >50% restenosis on 3-year follow up image was 18%(n=8/43). There was complete occlusion in 9%(n=4/43). Reballooning was done in the other 4 patients but final occlusion was seen in 2 patients.

Conclusions The use of Wingspan stent in patient with >50% symptomatic intracranial stenosis is associated with good long term clinical outcome. Long term restenosis rate was not high and asymptomatic in most patients. The incidence of symptomatic infarct was low among the restenosis patients.

Disclosures S. Park: None. S. Seo: None. J. Kim: None.