white, black, and others. Multiple variables for chronic/acute comorbidities identified associated with outcomes. After adjustment using logistic regression, race was not associated with three in-hospital outcome variables: mortality (p = 0.183), post-operative stroke (p = 0.610) and discharge disposition (p = 0.231).

Conclusions There were no differences in hospital outcome among races/ethnicities in endovascular thrombectomy outcomes for acute stroke patients in the Premier data. Racial/ethnic disparities play role for patients’ selection not for patients’ outcome in endovascular thrombectomy.

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P-009 ASPECTS DECAY DURING INTER-FACILITY TRANSFER IN PATIENTS WITH LARGE VESSEL OCCLUSION STROKES AND ITS IMPACT ON ELIGIBILITY FOR ENDOVASCULAR PROCEDURES

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Background Favorable imaging profile according to the Alberta Stroke Program Early CT Score (ASPECTS) on noncontrast head CT is a key criterion for the selection of patients with ischemic stroke from large vessel occlusion (LVO) for intra-arterial (IA) revascularization therapies.

Objective The goal of our study was to analyze factors associated with changes in ASPECTS during inter-hospital transfer and to determine their impact on eligibility for endovascular procedures.

Methods We analyzed factors associated with changes in ASPECTS during inter-hospital transfer and their potential impact on eligibility for IA stroke therapies in patients with anterior circulation ischemic strokes. Clinical and demographic characteristics between patients with favorable and unfavorable imaging on repeat CT were compared. Favorable ASPECTS profile was defined as ASPECTS ≥6, and unfavorable ASPECTS <6, based on the imaging criteria proposed by the AHA in the 2015 updated acute stroke guidelines.

Results Of the 30 transferred patients with anterior circulation LVO, 42 had favorable ASPECTS ≥6 on CT imaging performed at outside hospital. 19 (45%) of those 42 patients presented to an outside facility within 6 hours of stroke onset (mean time from symptom onset to head CT, 295 ± 61 min), whereas in 23 patients CT showed favorable ASPECTS with stroke onset beyond the 6 hour window (mean time from symptom onset to outside CT, 603 ± 224 min). Stroke evolution towards unfavorable ASPECTS occurred in 13 (31%) out of 42 patients who initially had favorable imaging profile at outside hospitals. Higher NIHSS score was the only significant predictor of ASPECTS decay, whereas other clinical characteristics such as the use of intravenous thrombolysis and site of LVO (ICA versus MCA M1/M2) were similar between both groups.

Conclusions Our study showed that during inter-hospital transfer, one out of three patients with stroke from anterior circulation LVO becomes ineligible for IA thrombectomy based on CT ASPECTS imaging criteria alone. Except for NIHSS severity, no other baseline clinical factors could identify which patients were at risk of ASPECTS deterioration. Our study indicates the critical importance of rapid transfer of all stroke patients with suspected LVO to endovascular-capable hospitals.

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P-010 ASSOCIATION OF CLOT BURDEN SCORE WITH RADIOGRAPHIC AND CLINICAL OUTCOMES FOLLOWING SOLITAIRE STENT RETRIEVER THROMBECTOMY: ANALYSIS OF THE SWIFT PRIME TRIAL

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Background Clot burden score (CBS) was developed as a tool to evaluate the extent of intracranial thrombus burden in patients with anterior circulation acute ischemic stroke. Its value in predicting radiographic and clinical outcomes in patients treated with endovascular stroke therapy remains unknown.

Objective To evaluate the relationship between CBS and outcomes after stent retriever thrombectomy in the interventional arm of the SWIFT PRIME trial.

Methods CBS was calculated for the endovascular arm (intravenous tPA plus Solitaire stent retriever) of SWIFT PRIME using baseline CTA. The cohort of 69 patients was divided into 3 groups according to their CBS values: CBS 0–5 (n = 14), CBS 6–7 (n = 23) and CBS 8–9 (n = 32). Association between CBS and outcomes following treatment with the Solitaire device was studied.

Results The mean age of the 69 patients who formed the study cohort was 63.2 ± 13.1, mean NIHSS score was 16.8 ± 4.5, and 55% were males. There was no difference in clinical characteristics among the 3 groups, except for the baseline ASPECTS (P = 0.049), the site of proximal occlusion varied significantly among the 3 groups (P < 0.001). Rates of successful recanalization (TICI 2 b/3), complete recanalization (TICI 3 only), and of good clinical outcome at 3 months were similar among the 3 groups. (P = 0.24, P = 0.35, and P = 0.52, respectively).

Conclusions The combination of IV thrombolyis and stent retriever thrombectomy with the Solitaire device is highly effective in achieving successful recanalization and a good clinical outcome throughout the entire range of CBS values.

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The Solitaire stent retriever is available in different diameters and lengths. More recently, in August 2014, a 4 × 40 device was made available for thrombus retrieval in the US. While there have been many studies comparing the Solitaire to the other mechanical thrombectomy devices, at present, there have been little to no human data comparing the relatively new 4 × 40 Solitaire device with the older 4 × 20 and 4 × 15 devices. In our presentation we will be looking at the cases in which the 4 × 40 device was deployed and compare the recanalization rates to those achieved with cases treated with the 4 × 20 and 4 × 15 in patients with acute stroke.

**Materials and methods**

Materials used were the Solitaire Revascularization device in the sizes 4 × 40 mm, 4 × 20 mm, and 4 × 15 mm. All devices are identical in diameter but differ in the working length.

**Methods**

This is a retrospective study of 247 stroke patients who underwent clot retrieval using a 4 mm diameter Solitaire device as the first device deployed in a case at Saint Luke’s Hospital of Kansas City from 2012 till January 2016. Of the 247 total patients, 34 had undergone initial endovascular treatment with the Solitaire 4 × 40 device. The remainder were either treated with the 4 × 20 or the 4 × 15 Solitaire devices. Successful recanalization was determined as having a final TICI score of 2b or higher (>50% recanalization). Almost every case was performed with a balloon guide catheter inflated in the neck vasculature with aspiration on the guide catheter during Solitaire retrieval.

**Results**

The following Table 1 shows the recanalization rate with the different Solitaire devices.

| Size of solitaire Device | Number of patients (n) | Recanalization rate (TICI 2b or higher) |
|--------------------------|------------------------|----------------------------------------|
| 4x15                     | 32                     | 84.38%                                 |
| 4x20                     | 181                    | 88.39%                                 |
| 4x40                     | 34                     | 97.06%                                 |

**Conclusions**

The Solitaire 4 × 40 device showed a statistical trend for achieving better recanalization compared to the shorter devices. However due to our small sample size of patients undergoing treatment with the 4 × 40, further investigation is warranted to determine whether this result is maintained in larger sample size such as the STRATUS registry.

**Disclosures**

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**P-013**

**USE OF THE SOLITAIRE DEVICE FOR EMERGENCY REVASCULARIZATION OF THE SUPERIOR MESENTERIC ARTERY**

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**Background**

The Solitaire device (Medtronic) was designed for thrombectomy in acute stroke, but its 4–6 mm diameter makes it potentially well suited for peripheral embolectomy cases. In this report, we demonstrate the use of the a 6 × 30 mm Solitaire device to revascularize the superior mesenteric artery in a patient with acute mesenteric ischemia.