days in a high volume comprehensive stroke center between January 2017 and January 2020. Pre thrombectomy risk factors evaluated include age, NIHSS, ASPECT score, baseline mRS, occlusion site, and IV tPA administration. Post-thrombectomy risk factors include ASPECT score at 24 hours, TICI score, post-procedural subarachnoid hemorrhage (SAH), hemorrhagic transformation, and decompressive craniectomy. Procedural risk factors included the mode of anesthesia, intraprocedural systolic (SBP), diastolic (DBP), and mean arterial pressure (MAP) were reviewed as well as procedural blood pressure variability. The difference between the highest and lowest recorded blood pressure was defined as procedural variability.

**Results** Mechanical thrombectomy was performed in 290 patients, and 54 patients (54/290, 18.6%) were expired at 90 days, which include 42 anterior (77.8%) and 22 posterior circulation patients (22.2%). In 42 anterior circulation acute ischemic stroke patients who expired (M:F=25:17), the mean age was 77.5 ± 13, and 42.86% was at or more than 80 years old. Baseline estimated mRS three or above were seen in 92.7%. The number of days from admission to decease was 7 (median). Pre-procedural ASPECT score >6 was noted in 32 patients (32/42, 76.19%) but in 11 patients (11/42, 26.19%) on post-procedural ASPECT at 24 hours. MCA, ICA and CCA occlusion was found in 69.05%, 19.5%, and 9.52%, respectively. Pre thrombectomy IV tPA was administered in 17 patients (17/42, 40.48%). TICI 2b or three were achieved in 32 patients (32/42, 76.19%) but in 11 patients (11/42, 26.19%) on post-thrombectomy IV tPA was administered in 17 patients (17/42, 40.48%). TICI 2b or three were achieved in 54.7%, with the median number of passes were 2. Ten patients (23.81%) developed post thrombectomy symptomatic intracranial hemorrhages (sICH), and the hemorrhagic transformation was seen in 14.29% (n=6). Three patients (7.14%) developed post thrombectomy symptomatic intracranial hemorrhages (sICH), and the hemorrhagic transformation was seen in 14.29% (n=6). Three patients (7.14%) received decompressive craniectomy. Mean ‘arrival to groin puncture time’ and ‘groin to reperfusion time’ were 1.13 ± 0.19 hours and 1 hour ± 0.042, respectively. Monitored Anesthesia Care (n=29, 69.04%) was used for most of the procedure. Mean procedural variability of MAP, DBP and SBP were 24.32 ± 23.79 mmHg, 16.38 ± 24.83 mmHg, and 40.19 ± 26.83 mmHg, respectively.

**Conclusion** Older age, low baseline estimated mRS, the relatively lower rate of successful reperfusion, the higher rate of sICH, delayed groin to reperfusion time, and higher intraprocedural variability in MAP and DBP were observed in patients with mortality in our study.

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**ENDOVASCULAR THROMBECTOMY FOR STROKE IN ELDERLY PATIENTS: A COMPREHENSIVE MULTICENTER ANALYSIS – INSIGHTS FROM THE STAR COLLABORATION**


**Abstracts**

**Introduction** Acute ischemic strokes (AIS) due to large vessel occlusion (LVO) occur more frequently in elderly patients, resulting in more severe symptoms and worse outcomes after treatment. The purpose of this study is to evaluate the age-dependent outcomes of Endovascular Thrombectomy (ET) in the real world, using a large dataset from the Stroke Thrombectomy and Aneurysm Registry (STAR).

**Methods** All patients undergoing endovascular thrombectomy for AIS at 12 comprehensive stroke centers between January 2013 and December 2018 were included. Data were retrospectively collected by reviewing patient charts and procedure notes. The primary endpoint was the modified Rankin Score (mRS) at 90-days after the procedure, which was dichotomized into good outcome (mRS 0–2) or poor outcome (mRS 3–6).

**Results** Out of the 3850 patients that underwent mechanical thrombectomy, 2,827 patients (mean age 69±14, 49% female) had 90-day follow-up and were included in this study. When adjusting for confounding variables using multivariate logistic regressions, increased age was found to be an independent predictor of poor outcome (OR=1.4, p<0.001) and mortality (OR=1.5, p<0.001). An age increment of 10 years was associated with 23% higher odds of symptomatic hemorrhage, and 50% higher odds of mRS 5–6. Predictors of good outcome in elderly population (≥80 years) included higher ASPECT score (aOR=1.417, p=0.02), lower admission NIHSS (aOR=0.892, p<0.001), and lower number of attempts (aOR=0.664, p=0.003). The final Thrombolysis in Cerebral Infarction (TICI) score was associated with increased odds of better outcome in younger population (aOR=1.55, p<0.001), but not in the elderly (p=0.329).

**Conclusion** Higher age is an independent predictor of worse outcome and increased mortality in patients undergoing ET for AIS. Baseline deficits, ASPECT score, and number of attempts, but not complete revascularization rates, were associated with better outcomes in elderly patients. Our findings underline the need for further refinement of selection criteria for elderly patients being considered for ET.


**ANALYSIS OF COLLATERALS PROFILE AND SUCCESSFUL FIRST PASS THROMBECTOMY IN THE ELDERLY POPULATION: A SINGLE-CENTER EXPERIENCE**


**Introduction** Patients over 80 years old account for one third ischemic strokes in the developed world, with an overall poor outcome. Although current guidelines do not recommend an upper age limit for endovascular approach, the benefit in the elderly population is still uncertain. In spite of