Metanalysis has suggested that baseline NLR is a promising predictor of ischemic stroke clinical outcomes. This study aims to evaluate the relationship between baseline NLR in patients with large vessel occlusion (LVO) and their imaging selection for endovascular treatment (ET).

Materials and Methods We reviewed our prospective stroke intervention database from Nov 2015 to June 2019 for patients that underwent ET for LVO with an admission NLR. Patients were excluded from the study if they received corticosteroids or had any history of infectious/systemic disease prior to the development of stroke symptoms. We studied patient demographics, vascular risk factors, NIHSS on admission, data from imaging (NCCT ASPECT, CTP rCBF <30%, Tmax >6s and mismatch ratio), and 90 days outcome measured by mRS. Statistical analysis was performed with SPSS version 17, univariate analysis was conducted between age, NLR, NIHSS, data from imaging and mRS using a correlation coefficient.

Results Seventy-eight met our inclusion criteria (mean age, 67 ± 19; 39% women, mean NIHSS, 17 ± 6), 95% (n=74) were due to anterior circulation LVO while only 5%(n=4) were due to posterior circulation LVO occlusion. There was a significant positive correlation between NLR and rCBF<30% representing the volume of infarction core (p=0.046), also there was a significant negative correlation between ASPECT score and rCBF<30% (p=0.035). No correlation was observed between NIHSS and ASPECT (p=0.94) or NIHSS and rCBF<30% (p=0.83), however, there was a trend toward significance correlating NIHSS and Tmax>6s representing the volume of ischemic tissue (p=0.09). Predictably, NLR was not correlating with 90-days mRS (p=0.703) as all patients in our cohort underwent ET, nevertheless, there was a significant correlation between age and 90-days mRS (p=0.001).

Conclusions NLR is an inexpensive and readily available biomarker that correlates with CTP predicted core infarction volume in LVO ischemic stroke. However, in CTP selected patients with relatively small core infarct volumes, NLR may not predict 90-day mRS as endovascular treatment salvages ischemic tissue, minimizes final infarct volume, and suggests follow-up NLR may be more valuable predictor of clinical outcome.


**E-076 OUTCOMES OF LARGE VESSEL OCCLUSION THROMBECTOMY IN PATIENTS WITH CT PERFUSION DEFINED LARGE CORE STROKE**


**Introduction**

The benefit of endovascular thrombectomy (ET) is well established in patients with small anterior circulation infarctions and large penumbra. However, this benefit is not proven in patients with a baseline large core infarction. This subpopulation was excluded from major thrombectomy clinical trials. The purpose of this study was to report the outcome of patients with large baseline core based on CTP who underwent stroke thrombectomy at 4 large stroke centers.

**Methods**

Prospectively collected large vessel occlusion databases were queried to identify patients with large baseline infarct cores (CBF greater than 30% ≥ 50 mL) based on Computed Tomography Perfusion (CTP) processed by RAPID Software (iSchemaView). All patients treated with thrombectomy were included in the study. Modified Rankin Scale (mRS) was used for evaluation of clinical outcomes at baseline and 90 days. Demographic information, baseline clinical data, radiological features (infarct core size, penumbra and collateral) and follow-up were collected.

**Results**

A total of 75 patients were included in the study. Mean age was 65 ±14.9 years and 45.3% were male. Median infarct core was 75.5 mL (IQ 9.39) and median ASPECTS was 7 (range 3–10). Close to half (50.7%) of patients received IV tPa. Only 8.3% of patients had good collaterals. Mean time to groin puncture was 373±384 minutes and 88% of patients achieved TICI 2b or higher. Rates of good outcome (mRS 0–2) and acceptable outcome (mRS 0–3) were 28.4% and 35.5% respectively. Rate of Parenchymal Hematoma type 2 was 10.6%. The rate of good outcome was significantly higher in patients treated <6h (44.2% vs. 17.4%, P=0.023).

**Conclusions**

Acute stroke thrombectomy may be beneficial in some patients with large core based on CTP especially those who present early (<6 hours from last seen well) and it should not be withheld solely based on the estimated core infarct volume on CTP.

**Disclosures**


**E-077 PROTEIN EXPRESSION OF INTRA-ARTERIAL BLOOD DISTAL AND PROXIMAL TO THROMBUS DURING MECHANICAL THROMBECTOMY**


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