

Anterior cerebral artery occlusion

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The safety and efficacy of mechanical thrombectomy (MT) for the treatment of acute [anterior cerebral artery](#) (ACA) occlusions have not clearly been delineated. Outcomes may be impacted based on whether the occlusion is isolated to the ACA (primary ACA occlusion) or occurs in conjunction with other cerebral arteries (secondary).

Methods: We performed a retrospective review of the multicenter Stroke Thrombectomy and Aneurysm (STAR) database. All patients with MT-treated primary or secondary ACA occlusions were included. Baseline characteristics, procedural outcomes, complications, and clinical outcomes were collected. Primary and secondary ACA occlusions were compared using the Mann-Whitney U test and Kruskal-Willis test for continuous variables and the χ^2 test for categorical variables.

Results: The study cohort comprised 238 patients with ACA occlusions (49.2% female, median (SD) age 65.6 (16.7) years). The overall rate of successful recanalization was 75%, 90-day good functional outcome was 23%, and 90-day mortality was 35%. There were 44 patients with a primary ACA occlusion and 194 patients with a secondary ACA occlusion. When adjusted for baseline variables, the rates of successful recanalization (68% vs 76%, $P=0.27$), 90-day good functional outcome (41% vs 19%, $P=0.38$), and mortality at 90 days (25% vs 38%, $P=0.12$) did not differ between primary and secondary ACA occlusion groups.

Conclusion: Clinical and procedural outcomes are similar between MT-treated primary and secondary ACA occlusions for select patients. Our findings demonstrate the need for established criteria to determine ideal patient and ACA stroke characteristics amenable to MT treatment ¹⁾.

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Dabhi N, Kumar JS, Ironside N, Kellogg RT, Sowlat MM, Uchida K, Maier I, Al Kasab S, Jabbour P, Kim JT, Wolfe SQ, Rai A, Starke RM, Psychogios MN, Samaniego EA, Arthur AS, Yoshimura S, Cuellar H, Howard BM, Alawieh A, Romano DG, Tanweer O, Mascitelli J, Fragata I, Polifka AJ, Osbun JW, Crosa RJ, Matouk C, Levitt MR, Brinjikji W, Moss M, Dumont TM, Williamson R, Navia P, Kan P, De Leacy R, Chowdhry SA, Ezzeldin M, Spiotta AM, Park MS. Mechanical thrombectomy for the treatment of primary and secondary anterior cerebral artery occlusions: insights from STAR. *J Neurointerv Surg*. 2023 Nov 15;:jn-is-2023-020997. doi: 10.1136/jn-is-2023-020997. Epub ahead of print. PMID: 37968114.

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