EVALUATION OF SAFETY AND EFFICACY OF SNUFFBOX (DISTAL RADIAL ARTERY) ACCESS FOR MECHANICAL THROMBECTOMY IN ACUTE ISCHEMIC STROKE

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Purpose To evaluate the safety and efficacy of snuffbox (distal radial artery) access for mechanical thrombectomy in patients presenting with acute ischemic stroke.

INCIDENCE OF ACCESS SITE COMPLICATIONS AFTER TRANSRADIAL ACCESS FOR NEUROINTERVENTIONS

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Purpose To report the incidence of access site complications after transradial (distal radial (anatomical snuffbox) and radial artery) access for diagnostic and interventional Neuro IR procedures.
**EVALUATION OF SAFETY AND EFFICACY OF TRANSRADIAL ACCESS FOR MECHANICAL THROMBECTOMY IN ACUTE ISCHEMIC STROKE – A SINGLE CENTER EXPERIENCE**


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**Purpose**
To evaluate the safety and efficacy of transradial (distal radial (snuffbox) and radial artery) access for mechanical thrombectomy in patients presenting with acute ischemic strokes.

**Material and Methods**
Retrospective review of our prospectively maintained Neuro IR database and identification of all patients who underwent mechanical thrombectomy for anterior and posterior circulation strokes between January 2019 and November 2020. Information on patient characteristics, site of occlusion, catheter set up, TICI recanalization status, and patient outcome at 3 months was collected.

**Results**
A total of 256 anterior (n=239) and posterior (n=17) circulation strokes were identified between January 2019 and November 2020. Of those, 17 were performed via transradial access (6.6%), with 8 strokes located in the anterior and 9 in the posterior circulation. Eight patients were female. Mean age of anterior circulation stroke patients was 73.9 years (range 46-96 years) and 57.9 years (range 35-76 years) for posterior circulation stroke patients. Most occlusions were seen in the middle cerebral and basilar arteries. The NIHSS ranged between 5 to 24 for anterior circulation strokes (mean NIHSS 13) and 2 to 38 for posterior circulation strokes (mean NIHSS 12). Four patients received IV tPA. Ten procedures were performed via radial artery access and 7 procedures via distal radial artery (snuffbox) access. No conversion to femoral access was needed. Successful recanalization with TICI equal to or higher than 2B was achieved in 87.5% of anterior circulation and 100% of posterior circulation thrombectomies. TICI 2C and 3 was achieved in 75% of anterior circulation and 88.9% of posterior circulation thrombectomies. Single pass TICI 2C and 3 was seen in 7/17 cases (41.2%). The Infinity (Stryker) and Benchmark (Penumbra) catheters were mainly used as guide catheters. Intermediate catheters used included the 5F Sofia distal access catheter (Microvention), Large Bore aspiration catheter (Cerenovus) and Catalyst 6 (Stryker). A stent retriever, either Trevo (Stryker) or Solitaire (Medtronic), was used in all cases. No access site complication was noted.

**Conclusion**
Transradial access for mechanical thrombectomy in acute ischemic stroke is a primary access in tortuous vasculature/posterior circulation stroke and is a good alternative to the femoral approach. This vascular access is especially helpful in patients with posterior circulation strokes, on anticoagulation or with large body habitus.

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**E-124 PIPELINE EMBOLIZATION DEVICE WITH SHIELD TECHNOLOGY IN THE TREATMENT OF RECURRENT CEREBRAL ANEURYSMS USING LVIS STENT**

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**Purpose**
To evaluate the safety and efficacy of transradial (distal radial (snuffbox) and radial artery) access for mechanical thrombectomy in patients presenting with acute ischemic strokes.

**Material and Methods**
Retrospective review of our prospectively maintained Neuro IR database and identification of all patients who underwent mechanical thrombectomy for anterior...