

NEUROINTERVENTIONAL SURGERY & ACUTE STROKE THERAPY ADAPT PROJECT



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Comparison of Endovascular Treatment Approaches for Acute Ischemic Stroke: Cost Effectiveness, Technical Success, and Clinical Outcomes.

BACKGROUND:

The use of mechanical thrombectomy for treatment of acute ischemic stroke has significantly advanced over the last 5 years. Little data is available comparing the cost and clinical angiographic outcomes of the available techniques. The aim of this study was to compare the cost and efficacy of current stroke therapy at MUSC.

METHODS:

A retrospective review of the chart and hospital financial database of all ischemic stroke cases from 2009-2013 was performed. Three discreet treatment methodologies used during this time were compared: traditional Penumbra System (PS), stent retriever with local aspiration (SRLA) and A Direct Aspiration first Pass Technique (ADAPT). Statistical analysis of clinical and angiographic outcomes and costs for each group was performed.