included. Peri-operative variables as well as angiography findings were collected and reviewed.

Results Seven VAI patients were identified with average age of 67 years. Most cases involved the posterior C1, C2 region. Two patients had dominant VAI and five patients had complete occlusion of the vertebral artery. Endovascular treatment was performed in three cases (two cases of coil embolization and one thrombectomy). All cases were reviewed and utilized in the development of an institutional algorithm for spine-endovascular decision-making followed by treatment paradigm in the neuroendovascular suite.

Conclusion Iatrogenic VAI is a dreaded complication of spine surgery with oftentimes poor consensus on management strategy. Recognition and rapid management of VAI is vital for mitigation of neurologic injury. We present an institutional algorithm utilizing our single center experience as well as evidence-based literature for rapid endovascular management. We advocate for institution-dependent, collaborative algorithms to assist with such rare yet potentially catastrophic condition.

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ENDOVASCULAR MANAGEMENT OF DISTAL ANTERIOR CEREBRAL ARTERY ANEURYSMS: A MULTI-CENTER EXPERIENCE

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Introduction Distal anterior cerebral artery aneurysms (DACAAs) are relatively rare, carry high rate of rupture and are often challenging to treat. The evolution of endovascular techniques has allowed for safe and durable treatment of these aneurysms. The purpose of this study is to investigate the safety, efficacy and long-term outcomes of endovascular treatment of DACAAs.

Methods Retrospective review of DACAAs endovascularly treated at 5 different institutions across the nation. Data collected included baseline demographics, rupture status, radiographic features, endovascular technique, complication rates, and long-term angiographic and clinical outcomes. Primary endpoint was good clinical outcome (modified Rankin scale 0-2). Secondary endpoints included complications and radiographic occlusion at follow up.

Results 84 patients were reviewed (table 1). Mean age was 56, and 64 (71.4%) were female. 52 (61.9%) aneurysms were ruptured. 60 (71.4%) aneurysms were treated with primary coiling, and the remaining 24 were treated flow diversion. Adequate occlusion was achieved in 41 (95.3%) aneurysms treated with coiling, and 17 (89.5%) with flow diversion. No patients required retreatment in the flow diversion category versus 16 (29%) in primary coiling. Good functional outcome was achieved in 59 patients (85.5%), and mortality was observed in 2 (2.3%) patients. There were overall 11 (13%) complications. In primary coiling there were 9 (15%) procedural complications: 5 thromboembolic events, 3 intraoperative ruptures and 1 access site hematoma. In flow diversion

Abstract E-108 Table 1 Patient demographics and aneurysm characteristics

Age, mean (SD)	56 (14.1)
Females, n (%)	60 (71.4%)
Indication, n (%)	
Subarachnoid hemorrhage	51 (60.7%)
Intraparenchymal hemorrhage	1 (1.2%)
Elective procedure	32 (38.1%)
Treatment technique, n (%)	
Coiling	60 (71.4%)
Flow diversion	24 (28.6%)
Complications, n (%)	11 (13%)
Months to the first follow up angiogram, mean (SD)*	6.7 (5)
Occlusion scale on first follow up angiogram, n (%)*	
Raymond 1	36 (55.4%)
Raymond 2	21 (32.3%)
Raymond 3	8 (12.3%)
Retreatment required, n (%)**	16 (20.3%)
Months to the final follow up angiogram, mean (SD)***	31.3 (32.1)
Occlusion scale on final follow up angiogram, n (%)***	
Raymond 1	45 (72.6%)
Raymond 2	12 (19.4%)
Raymond 3	5 (8.1%)
Months to final follow up visit, mean (SD) [§]	23.7 (29.2)
mRS 0-2 on final follow up visit, n (%) [§]	59 (85.5%)
Mortality before last follow up visit, n (%) [§]	2 (2.9%)

category there were 2 procedural complications (8.3%), both of which were retroperitoneal hematomas related to femoral access.

Conclusion Endovascular treatment, and in particular, flow diversion for DACAAs is safe, feasible and associated with good long-term angiographic and clinical outcomes.

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PRECIPITATING HYDROPHOBIC INJECTABLE LIQUID (PHIL) IN ENDOVASCULAR TREATMENT OF BRAIN ARTERIOVENOUS MALFORMATIONS: INITIAL EXPERIENCE

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Background Non-adhesive embolization compositions are a method of choice in endovascular treatment of a brain arteriovenous malformation (AVM). Non-adhesive precipitating hydrophobic injectable liquid (PHIL) is a relatively new material for treating such pathologies. The objective of this paper is to demonstrate our initial experience in using of PHIL for treatment of brain AVMs.