## Abstract E-077 Table 1

Year		DAP (Gy.cm²)	CAK (Gy)	CAK (Gy)	FT (min)	Number of DSA frames
GRAPH	·Υ		1 Tornar Flaric	Laterarriane		Dorthames
2014	439	136.6a (154.2b)			12.6° (14b)	251° (273b)
2013	174	47 (28-76)	0.21 (0.13-0.37)	0.06 (0.03-0.11)	6 (4-9)	278 (173-402)
2015	Range 42- 50	System 1: 1.499* System 2: 1.184* System 3: 0.973*				
2015	398	43 (33-60)	0.26 (0.19-0.33)	0.09 (0.07-0.13)	5.6 (4.2-7.5)	245 (193-314)
2014	111	226.0a (272.8b)			52.9a (61.1b)	241a (276.0b)
2013	138	109 (67-196)	0.68 (0.38-1.35)	0.21 (0.10-0.45)	12 (5-16)	464 (299-845)
2013	Year 2009 N: 90 Year 2010 N: 92	Year: 2009 242 (386b) Year 2010 270 (392b)	2.4° ( Year	3.9 <sup>b</sup> ) 2010		
2011	628	188 (272b)	2.0	(0.0 )		
2015	357	66 (41-110)	0.46 (0.25-0.80)	0.18 (0.10-0.30)	18.3 (9.1-30.2)	281 (184-427)
1	33	150 (118-206)	0.99 (0.65-1.55)	0.56 (0.28-0.74)	57.0 (36.4-76.1)	706 (522-904)
1	71	79 (60-112)	0.71 (0.48-0.94)	0.29 (0.23-0.40)	25.7 (19.9-34.8)	300 (212-428)
omie	73	86 (60-110)	0.46 (0.36-0.75)	0.19 (0.15-0.29)	19.9 (13.1-29.0)	359 (286-458)
	180	43 (30-78)	0.27 (0.17-0.53)	0.11 (0.07-0.17)	10.1 (5.2-20.0)	206 (158-306)
	2014 2015 2015 2015 2015 2014 2013 2013 2011 2015	2014 439 2013 174 2015 Range 42- 50 2015 398 2014 111 2013 138 2013 Year 2009 N: 90 Year 2010 N: 92 2011 628 2015 357 33 71 omie 73	CGRAPHY   2014   439   136.6° (154.2°)   2015   Range 42-50   2014   111   226.0° (272.8°)   2013   138   109.67-196   2013   Year 2009   Year 2009   Year 2010   Year 2010   Year 2010   Year 2010   Year 2010   Range 20	GRAPHY   2014   439   136.6* (154.2*)   2013   174   47 (28-76)   0.21 (0.13-0.37)   2015   Range 42-50   System   System   2015   398   43 (33-60)   0.26 (0.19-0.33)   2014   111   226.0* (272.8*)   2013   138   109 (67-196)   0.68 (0.38-1.35)   2013   Year 2009   Year 2009   Year 2010   System   2.5* (2011   628   188 (272*)   2015   357   66 (41-110)   0.46 (0.25-0.80)   2.5* (2011   628   135 (118-206)   0.99 (0.65-1.55)   71   79 (60-112)   0.71 (0.48-0.94)   386 (60-110)   0.46 (0.36-0.75)   386 (60-110)   0.46 (0.36-0.7	Company   Comp	Company   Comp

Disclosures A. Hassan: 2; C; GE Healthcare. S. Amelot: 5; C; GE Healthcare.

E-078

ENDOVASCULAR VEIN APPROACH AND DIRECT PUNCTURE RETROGRADE VEIN APPROACH FOR CURATIVE AVM TREATMENT: A NEW UNREPORTED TECHNIQUE

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10.1136/neurintsurg-2016-012589.150

Purpose To evaluate the role of Retrograde Vein and Direct Puncture Retrograde Vein Endovascular Repair of Large Peripheral AVMs.

Materials and methods Eighty-seven patients (45 males, 42 females; age: 14–72, mean age: 27 years) presented for repair of AVMs involving head and neck, shoulder, chest wall, intrathoracic, abdominal, renal, pelvic, buttock, and extremities. Ethanol and ethanol/coils were the embolic agents used. Retrograde transvenous catheterizations and vein direct puncture retrograde vein approaches were used in all patients.

Results Eighty-five of 87 patients are cured at long-term follow-up (f/up: 14 months to 138 months; mean: 42 months) and 2 patients' therapy is on-going. Complications include 1 pelvic AVM post-Rx small bleed not requiring transfusion; 1 pelvic AVM coils eroded into bladder wall removed uneventfully via trans-urethra endoscopy; 2 infections treated with antibiotics; 2 patients' coils superficially eroded and uneventfully removed; and 1 patient subcutaneous hematoma removed (7/87 patients; 8% minor complications).

Conclusions Retrograde vein and direct puncture vein access and embolization of AVMs in many anatomic locations have proven curative at long-term f/up of AVMs in multiple anatomic locations with a low complication rate. Reproducible and consistent results of this technique have been reported by Yakes (1990) et al, Jackson (1996) et al and Cho (2008), et al.

Disclosures W. Yakes: None.

E-079

## ANGIOGRAPHIC ANATOMICAL FEATURES FOR TRANSBRACHIAL CAROTID CANNULATION OF A BALLOON-GUIDE CATHETER

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10.1136/neurintsurg-2016-012589.151

Background and purpose Transfemoral approach has been a common technique for advancing a balloon-guide catheter (BGC) for emergency clots removal therapy in acute stroke patients. When aortic or peripheral arterial conditions limit transfemoral access, transbrachial approach is attempted as the alternative. The purpose of our study was to investigate anatomical features of the aortic arch (AA) for transbrachial carotid cannulation (TCC) of a BGC.

Patients and methods Included were patients who underwent endovascular reperfusion therapy with transbrachial BGC between Jan 2014 and Jun 2015. Evaluated were successful cannulation of the BGC and anatomical features of the aortic arch.

Results Fourteen patients were analyzed. TCC was successful in 10 (71%) of 14 lesions: 6 of 7 right carotid artery (CA) lesions and 4 of 7 CA lesions. Two left CA lesions of a bovine type AA were transbrachially cannulated, whereas only two of five left CA lesions of a non-bovine AA were cannulated and their angle (BC-ltCA) between the brachiocephalic artery and the left CA was 20 degree or more. However, three lesions with BC-ltCA angle of less than 20 degree were not cannulated. Six right CA lesions with the angle (SA-rtCA) between the right subclavian artery and the right CA of 30 degree or more were cannulated; however one lesion with SA-rtCA angle of less than 30 degree was not.

Conclusion A BGC can be transbrachially cannulated to the CA in patients with the left CA of a bovine AA, the left CA of a non-bovine AA with the BC-ltCA angle of 20 degree or more or the right CA with the SA-rtCA angle of 30 degree or more.

Disclosures T. Mori: None. S. Kasakura: None. T. Iwata: None. Y. Tanno: None. K. Yoshioka: None.

JNIS 2016;**8**(1):A1—A100