ARTERIOVENOUS MALFORMATION (AVM) EVALUATION 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Common Indication	Arteriovenous malformation (AVM)
Position	Supine
Coil	GEMS Peripheral Vascular (PV) Coil or if smaller area of interest Gem Body Array could be used
Landmark	Landmark where you center the Body Array Coil or mid PV Coil

CONTRAST AGENT PARAMETERS

Contrast Agents	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL. OK to cap at 10 mL max volume for patients larger than 100 kg	2 mL/sec
Saline Flush	50 mL	2 mL/sec immediately following gadolinium
Comments	TRICKS timing: 1. Start scan 2. Mask runs as clock counts down 3. Inject at 0:00 4. Clock will reset 5. Scan will continue to acquire multiple phases	

IMAGING PARAMETERS

Scan Description	LOCALIZER SSFSE	AXIAL/CORONAL T2 Fat Sat	CORONAL 3D TRICKS	CORONAL 3D MRA ARC	AXIAL T1 FSPGR	CORONAL T1 LAVA-Flex
Mode	2D	2D	3D	3D	2D	3D
Pulse Sequence	SSFSE	FRFSE-XL	TRICKS	ceMRA-XV	FAST SPGR	LAVA-Flex
Imaging Options	SEQ, FAST, SS, ARC	TRf, EDR, FAST	FAST, ZIP2, ZIP512	FAST, EDR, ARC, ZIP2, ZIP512	FAST, ZIP512	EDR, FAST, ZIP2, ARC

SCAN PARAMETERS

Scan Description	LOCALIZER SSFSE	AXIAL/CORONAL T2 Fat Sat	CORONAL 3D TRICKS	CORONAL 3D MRA ARC	AXIAL T1 FSPGR	CORONAL T1 LAVA-Flex
TE	80	90	Min	Min	Min	Min
TR	Min	Def	Def (2.9)	Def	110	Def
Flip Angle	—	—	30	15	90	15
ETL	—	16	—	—	—	—
Bandwidth	83	50	90	62	41	142
SAT	—	Sat Scr Fat Sat	—	—	Fat Sat	—

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MR Gadopiclenol (VUEWAY®) Protocol for GE HealthCare Systems
MR Angiography

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	LOCALIZER SSFSE	AXIAL/CORONAL T2 Fat Sat	CORONAL 3D TRICKS	CORONAL 3D MRA ARC	AXIAL T1 FSPGR	CORONAL T1 LAVA-Flex
MATRIX freq	384	256	256	256	320	288
MATRIX phase	160	192	192	192	192	224
NEX	Def	2	1	1	1	1
Phase FOV	1	0.8	0.5	0.8	.75 or 1	0.9
Freq Direction	Unswapped	R/L	—	S/I	R/L	S/I
Accel	Ph 2	—	Ph 2, Sl 2	Ph 2, Sl 2	—	Ph 2, Sl 2
Adv CV	0, 240, 0	Blur Can 1 Fat Eff 1 EnFnL Sup 0	Turbo 2	Turbo 2 Elip Cent Slice Res 78%	—	Min ARC Ph OS 24 Min ARC Sl OS 24 Turbo 2
Other	—	—	TRICKS tab: TempPhs 20 Pause Off BOTH Delay Min	—	—	—

SCANNING RANGE

Scan Description	LOCALIZER SSFSE	AXIAL/CORONAL T2 Fat Sat	CORONAL 3D TRICKS	CORONAL 3D MRA ARC	AXIAL T1 FSPGR	CORONAL T1 LAVA-Flex
FOV	48	20-35	35	36-40	20	35
Slice Thickness	8	4	2	2	4	2
Spacing	0	1	0	0	1	0
Number of Slices	21 Slices	PRN Slices	64 Slices	70 Slices PRN	PRN x 5	140 Locs
Approx. Scan Time	± 1 min each	± 5:00	1:47 (0:32)	± 20 sec per BH	± 2-3 min each	0:24

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