CONTRAST-ENHANCED MRA ABDOMEN 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Respiratory bellows • Recommend high-relaxivity agents when available
Common Indications	Abdominal aorta aneurysm, stenosis, vasculitis if contraindications for contrast
Position	Supine
Coil	8 Cardiac, 8 or 32 channel Body, GEMS Array
Landmark	Xyphoid

CONTRAST AGENT PARAMETERS

Contrast Agents	Dose	Injection Rate	Dose Timing Method and Scan Delay
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	Dilute to 30 mL @ 1.5 mL/sec	Fluoro triggered to abdominal aorta opacification
Saline Flush	50 mL @ same rate	1.5 mL/sec	Immediately following gadolinium
Comments	Quiet breathing		

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	AXIAL SSFP	CORONAL SSFSE ARC	AXIAL RT T2 Fat Sat	CORONAL 3D MRA	CORONAL 3D MRA LOW FLIP	CORONAL T1 3D LAVA-Flex	AXIAL T1 3D LAVA-Flex	AXIAL Inhance 3D FLOW
Mode	2D	2D	2D	2D	3D	3D	3D	3D	3D
Pulse Sequence	SSFSE	Non-Gated FIESTA	SSFSE	FRFSE-XL	ceMRA-XV	ceMRA-XV	LAVA-Flex	LAVA-Flex	INH-VEL (e3DPCA)
Imaging Options	EDR, SEQ, ARC, FAST, SS	SEQ, FAST, ASSET	EDR, SS, FAST, ZIP512, ARC	TRf, FAST, RespTrig	EDR, FAST, ZIP512, ZIP2, ARC	EDR, FAST, ZIP512, ZIP2, ARC	EDR, FAST, ZIP2, ARC	EDR, FAST, ZIP2, ARC	FC, RT, ZIP512, ZIP2, ASSET

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	AXIAL SSFP	CORONAL SSFSE ARC	AXIAL RT T2 Fat Sat	CORONAL 3D MRA	CORONAL 3D MRA LOW FLIP	CORONAL T1 3D LAVA-Flex	AXIAL T1 3D LAVA-Flex	AXIAL Inhance 3D FLOW
TE	90	Min	90	90	Min	Min	Min	Min	Min
TR	Min	Def	Min	Def	Def	Def	Def	Def	Min
Flip Angle	—	60	—	—	28	15	12	12	12
ETL	—	—	—	16	—	—	—	—	—
Bandwidth	83	125	62	50	83	62	90	90	31
SAT	—	—	—	Sat Scr Fat Sat	—	—	—	—	—

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Supported by an educational grant from Bracco Diagnostics Inc.

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

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	AXIAL SSFP	CORONAL SSFSE ARC	AXIAL RT T2 Fat Sat	CORONAL 3D MRA	CORONAL 3D MRA LOW FLIP	CORONAL T1 3D LAVA-Flex	AXIAL T1 3D LAVA-Flex	AXIAL Inhance 3D FLOW
MATRIX freq	288	256	320	320	256	256	320	320	256
MATRIX phase	160	192	224	224	192	192	192	192	192
NEX	Def	1	1	2	1	1	1	1	1
Phase FOV	1	1	1	0.8	1	1	0.9	0.8	0.8
Freq Direction	—	R/L	S/I	R/L	S/I	S/I	S/I	R/L	R/L
Accel	Ph 2	Ph 2, SL 2	Ph 2	—	Ph 2, Sl 2	Ph 2, Sl 2	Ph 2, Sl 2	Ph 2, Sl 2	1.5 Ph T
Adv CV	0, 240, 0, 2	0	Max # echoes 240 Max Ace 2	Blur Can 1 Fat Eff 1 EnFnL Sup 0	Turbo 2 Ellip Cen SI Res 78%	Turbo 2 Ellip Cen 1 SI Res 78%	CV6 1 CV30 1 CV36 70	CV6 1 CV30 1 CV36 70	SI Res 100%

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE	AXIAL SSFP	CORONAL SSFSE ARC	AXIAL RT T2 Fat Sat	CORONAL 3D MRA	CORONAL 3D MRA LOW FLIP	CORONAL T1 3D LAVA-Flex	AXIAL T1 3D LAVA-Flex	AXIAL Inhance 3D FLOW
FOV	48	36	40	35	36	36	38	36	38
Slice Thickness	10	6	5	5	2	2	2	3	2
Spacing	0	0	0	1	0	0	0	0	0
Number of Slices	21 Slices	40 Slices	@ 30 Slices	40-50 Slices	70 Slice PRN	70 Slices PRN	116 Slices	128 Slices	56 Locs
Approx. Scan Time	0:46	± 16 sec per BH	± 16 sec per BH	± 5:00	0:20	0:20	0:23	0:23	± 6:30

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