NW
IMAGING FORUMS, INC.

CONTRAST-ENHANCED MRA ABDOMEN 3.0T

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	32 channel Torso, GEMS Body Array, or Air Coil
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	1.5 mL/sec	Immediately following gadolinium			
Comments	Quiet breathing	Expiration diaphragm to below bifurcation or aneurysm	Expiration	Quiet breathing diaphragm to below bifurcation	Quiet breathing	Renal Artery Analysis Renal TX Pancreas TX

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	AXIAL SSFP	CORONAL T2 SSFSE ARC	AXIAL RT T2 Fat Sat	CORONAL 3D MRA	CORONAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
Mode	2D	2D	2D	2D	3D	3D	3D	3D
Pulse Sequence	SSFSE	Non-Gated FIESTA	SSFSE	FRFSE-XL	ceMRA-XV	ceMRA-XV	LAVA-Flex	LAVA-Flex
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

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	AXIAL SSFP	CORONAL T2 SSFSE ARC	AXIAL RT T2 Fat Sat	CORONAL 3D MRA	CORONAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
TE	90	Min	90	90	Min	Min	Min	Min
TR	Min	Def	Min	Def	Def	Def	Def	Def
Flip Angle	—	60	—	—	28	15	15	15
ETL	—	—	—	16	—	—	—	—
Bandwidth	83	125	62	50	83	62	142	142
SAT	—	—	—	Sat Scr Fat Sat	—	—	—	—

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

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 T2 SSFSE ARC	AXIAL RT T2 Fat Sat	CORONAL 3D MRA	CORONAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
MATRIX freq	288	256	320	320	320	320	288	320
MATRIX phase	160	256	224	224	224	224	224	224
NEX	Def	1	1	2	1	1	1	1
Phase FOV	1	1	1	0.8	1	1	0.9	0.8
Freq Direction	—	R/L	S/I	R/L	S/I	S/I	S/I	S/I
Accel	Ph 2	—	Ph 2	—	Ph 2, Sl 2	Ph 2, Sl 2	Ph 2, Sl 2	Ph 2, Sl 2
User CV	0, 240, 0, 2	0	Max # Echos 240 Echo Sp Opt 1	Blur Can 1 Fat Eff 1 EnFnL Sup 0	Turbo 2 Ellip Cen Sl Res 78%	Turbo 2 Ellip Cen 1 Sl Res 78%	CV6 1 CV30 1 CV36 70	CV6 1 CV30 1 CV36 70

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE	AXIAL SSFP	CORONAL T2 SSFSE ARC	AXIAL RT T2 Fat Sat	CORONAL 3D MRA	CORONAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
FOV	48	36	40	35	36	36	38	36
Slice Thickness	8	5	5	5	2	2	2	3
Spacing	0	0	0	1	0	0	0	0
Number of Slices	21 Slices	40 Slices	@ 30 Slices	40-50 Slices	70 Slice PRN	70 Slices PRN	140 Locs	140 Locs
Approx Scan Time	0:46	± 16 sec per BH	± 16 sec per BH	± 5:00	0:20	0:20	0:24	0:24

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