NW
IMAGING FORUMS, INC.

THORACOABDOMINAL AORTIC ANEURYSM MRA 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Respiratory bellows and peripheral gating optional: Reformat all Sagittal MRA into Axial and Coronal planes • Recommend high-relaxivity agent when available
Common Indications	Aorta aneurysm, stenosis, vasculitis, dissection
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 trigger to peak arterial opacification of entire aorta					
Saline Flush	50 mL	1.5 mL/sec	Immediately following gadolinium					
Comments	Breathing	Expiration	Expiration	Optional: Vasculitis Quiet breathing	Optional: Vasculitis Quiet breathing	Pre Expiration During-Fluoro trigger Post 1 Expiration	+C Post 2 LOW FLIP Expiration	Expiration	Expiration

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	CORONAL T2 SSFSE ARC	AXIAL RT T2 Chest	AXIAL RT T2 Abdomen	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
Mode	2D	2D	2D	2D	2D	3D	3D	3D	3D
Pulse Sequence	SSFSE	FIESTA	SSFSE	FRFSE-XL	FRFSE-XL	ceMRA-XV	ceMRA-XV	LAVA-Flex	LAVA-Flex
Imaging Options	EDR, SEQ, ARC, FAST, SS	SEQ, FAST, ASSET	EDR, SS, ARC, FAST, ZIP512	TRf, FAST, RespTrig	TRf, FAST, RespTrig	FAST, EDR, ZIP2, ZIP512, FluoroTrig	FAST, EDR, ZIP2, ZIP512	EDR, FAST, ZIP2, ARC	EDR, FAST, ZIP2, ARC

SCAN PARAMETERS

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

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ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	CORONAL T2 SSFSE ARC	AXIAL RT T2 Chest	AXIAL RT T2 Abdomen	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
MATRIX freq	288	256	352	320	320	384	384	320	320
MATRIX phase	160	192	256	224	224	224	224	192	224
NEX	Def	1	1	2	2	1	1	1	1
Phase FOV	1	0.9	1	0.8	0.8	0.7	0.7	0.9	0.8
Freq Direction	Def	R/L	S/I	R/L	R/L	S/I	S/I	S/I	S/I
Accel	Ph 2	Ph 2	Ph 2	—	—	Ph 3, Sl 2	Ph 3, Sl 2	Ph 2, Sl 2	Ph 2, Sl 2
User CV	0, 240, 0	—	Max # echoes 240	Blur Can 1 Fat Eff 1 EnFnL Sup 0	Blur Can 1 Fat Eff 1 EnFnL Sup 0	Turbo 2 Elip Cent 1 Slice Res 78%	Turbo 2 Elip Cent 1 Slice Res 78%	CV6 1 CV30 1 CV36 70	CV6 1 CV30 1 CV36 70

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	CORONAL T2 SSFSE ARC	AXIAL RT T2 Chest	AXIAL RT T2 Abdomen	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
FOV	48-50	36	46	36	36	48-50	48-50	48	36
Slice Thickness	8	6	5	5	5	2	2	2	3
Spacing	0	0	0	1	1	0	0	0	0
Number of Slices	5-8 each Plane	60 Slices	30 Slices	40 Slices	40 Slices	70 Slices PRN	70 Slices PRN	140 Locs	140 Locs
Approx Scan Time	0:46-0:54	± 16 sec per BH	± 16 sec per BH	± 5:00	± 5:00	± 20 sec per BH	± 20 sec per BH	0:24	0:24

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