NW
IMAGING FORUMS, INC.

THORACOABDOMINAL AORTIC ANEURYSM MRA 1.5T

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	8 channel 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 trigger to peak arterial opacification of entire aorta
Saline Flush	50 mL	1.5 mL/sec	Immediately following gadolinium

Comments	Breathing	Expiration	Expiration	+C Pre during fluoro trigger Post 1 Expiration	+C Post 2 LOW FLIP Expiration	Expiration	Expiration	Expiration	Quiet breathing Optional: Vasculitis	Quiet breathing Optional: Vasculitis

IMAGING PARAMETERS

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

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	CORONAL SSFSE ARC	SAGITTAL 3D MRA	SAGITTAL 3D MRA	CORONAL T1 3D	AXIAL T1 3D Chest	AXIAL T1 3D Abdomen	AXIAL RT T2 Chest	AXIAL RT T2 Abdomen
TE	90	Min	90	Min	Min	Min	Min	Min	90	90
TR	Min	Def	Min	Def	Def	Def	Def	Def	Def	Def
Flip Angle	—	60	—	28	15	12	12	12	—	—
ETL	—	—	—	—	—	—	—	—	16	16
Bandwidth	83	125	62	83	62	90	90	90	50	50
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 SSFSE ARC	SAGITTAL 3D MRA	SAGITTAL 3D MRA	CORONAL T1 3D	AXIAL T1 3D Chest	AXIAL T1 3D Abdomen	AXIAL RT T2 Chest	AXIAL RT T2 Abdomen
MATRIX freq	288	256	320	384	384	320	320	320	320	320
MATRIX phase	160	192	224	224	224	192	192	192	224	224
NEX	Def	1	1	1	1	1	1	1	2	2
Phase FOV	1	0.9	1	0.7	0.7	0.9	0.8	0.8	0.8	0.8
Freq Direction	Def	R/L	S/I	S/I	S/I	S/I	R/L	R/L	R/L	R/L
Accel	Ph 2	Ph 2	Ph 2	Ph 3, Sl 2	Ph 3 Sl 2	Ph 2, Sl 2	Ph 2, Sl 2	Ph 2, Sl 2	—	—
Adv CV	0, 240, 0	—	Max # echoes 240	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	CV6 1 CV30 1 CV36 70	Fat Eff 1 EnFnL Sup 0	Fat Eff 1 EnFnL Sup 0

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	CORONAL SSFSE ARC	SAGITTAL 3D MRA	SAGITTAL 3D MRA	CORONAL T1 3D	AXIAL T1 3D Chest	AXIAL T1 3D Abdomen	AXIAL RT T2 Chest	AXIAL RT T2 Abdomen
FOV	48-50	36	48	48-50	48-50	38	36	36	36	36
Slice Thickness	8	6	5	2	2	2	3	3	5	5
Spacing	0	0	0	0	0	0	0	0	1	1
Number of Slices	5-8 each Plane	60 Slices	30 Slices	70 Slices PRN	70 Slices PRN	116 Slices	128 Slices	128 Slices	40 Slices	40 Slices
Approx. Scan Time	0:46-0:54	± 16 sec per BH	± 16 sec per BH	± 20 sec per BH	± 20 sec per BH	0:23	0:23	0:23	± 5:00	± 5:00

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