THORACIC AORTA MRA 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	Respiratory bellows and peripheral gating optional: Reformat all Sagittal MRA into Axial and Coronal planes
Common Indications	Aortic aneurysm, dissection, coarctation
Position	Supine
Coil	32 channel Torso, GEMS Body Array, or Air Coil
Landmark	Nipple Line

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 thoracic aorta
Saline Flush	50 mL	1.5 mL/sec	Immediately following gadolinium
Comments	Breathing	Expiration	Optional: Vasculitis Quiet breathing

+C Pre 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	AXIAL RT T2 Fat Sat	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
Mode	2D	2D	2D	3D	3D	3D	3D
Pulse Sequence	SSFSE	FIESTA	FRFSE-XL	ceMRA-XV	ceMRA-XV	LAVA-Flex	LAVA-Flex
Imaging Options	EDR, SEQ, ARC, FAST, SS	SEQ, FAST, ASSET	TRf, FAST, RespTrig	FAST, EDR, ARC, ZIP2, ZIP512, FluoroTrig	FAST, EDR, ARC, ZIP2, ZIP512	EDR, FAST, ZIP2, ARC	EDR, FAST, ZIP2, ARC

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	AXIAL RT T2 Fat Sat	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
TE	90	Min	90	Min	Min	Min	Min
TR	Min	Def	Def	Def	Def	Def	Def
Flip Angle	—	60	—	28	15	15	15
ETL	—	—	16	—	—	—	—
Bandwidth	83	125	62	83	62	142	142
SAT	—	—	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 ARC	AXIAL SSFP Non-Gated	AXIAL RT T2 Fat Sat	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
MATRIX freq	288	256	320	320	320	288	288
MATRIX phase	160	192	224	192	224	224	224
NEX	Def	1	2	1	1	1	1
Phase FOV	1	0.9	0.8	0.8	0.8	0.9	0.8
Freq Direction	Def	R/L	R/L	S/I	S/I	S/I	R/L
Accel	Ph 2	Ph 2	—	Ph 2, Sl 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 Elip Cent 1 Slice Res 78%	Turbo Elip Cent 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	AXIAL RT T2 Fat Sat	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 LAVA-Flex	AXIAL T1 LAVA-Flex
FOV	40	36	36	36-40	36-40	38	36
Slice Thickness	8	6	5	2	2	2	3
Spacing	0	0	1	0	0	0	0
Number of Slices	5-8 each Plane	40 Slices	40-50 Slices	70 Slices PRN	70 Slices PRN	140 Locs	128 Locs
Approx Scan Time	0:46-0:54	± 16 sec per BH	± 5:00	± 20 sec per BH	± 20 sec per BH	0:24	0:24

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