THORACIC AORTA MRA 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	Respiratory bellows & peripheral gating optional: Reformat all Sagittal MRA into Axial and Coronal planes
Common Indications	Aortic aneurysm, dissection, coarctation
Position	Supine
Coil	8-32 channel Body Array, 8 channel Cardiac, GEMS Array
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	Pre during fluoro trigger Post 1 Expiration

Post 2 LOW FLIP Expiration	Expiration	Expiration	Expiration Flow analysis gated. 3 Slices (at, above, below)	Quiet breathing Optional: Vasculitis	

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 3D	AXIAL T1 3D	Optional: OBLIQUE 2D PC Flow Analysis	Optional: Vasculitis AXIAL RT T2 Fat Sat
Mode	2D	2D	3D	3D	3D	3D	2D	2D
Pulse Sequence	SSFSE	FIESTA	ceMRA-XV	ceMRA-XV	LAVA-Flex	LAVA-Flex	FAST Vasc PC	FRFSE-XL
Imaging Options	EDR, SEQ, ARC, FAST, SS	SEQ, FAST, ASSET	FAST, EDR, ARC, ZIP2, ZIP512, FluoroTrig	FAST, EDR, ARC, ZIP2, ZIP512	EDR, FAST, ZIP2, ARC	EDR, FAST, ZIP2, ARC	GAT, ASSET, SEQ, FAST	TRf, FAST, RespTrig

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 3D	AXIAL T1 3D	Optional: OBLIQUE 2D PC Flow Analysis	Optional: Vasculitis AXIAL RT T2 Fat Sat
TE	90	Min	Min	Min	Min	Min	Def	90
TR	Min	Def	Def	Def	Def	Def	Def (5.4)	Def
Flip Angle	—	60	28	15	12	12	45	—
ETL	—	—	—	—	—	—	—	16
Bandwidth	83	125	83	62	90	90	31	50
SAT	—	—	—	—	—	—	—	Fat Sat

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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	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 3D	AXIAL T1 3D	Optional: OBLIQUE 2D PC Flow Analysis	Optional: Vasculitis AXIAL RT T2 Fat Sat
MATRIX freq	288	256	256	256	320	320	256	320
MATRIX phase	160	192	192	192	192	192	160	224
NEX	Def	1	1	1	1	1	1	2
Phase FOV	1	0.9	0.8	0.8	0.9	0.8	0.8	0.8
Freq Direction	Def	R/L	S/I	S/I	S/I	R/L	R/L	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	—	Turbo 2 Elip Cent 1 Slice Res 78%	Turbo 2 Elip Cent Slice Res 78%	Min ARC Ph OS 24 Min ARC Sl OS 24 Turbo 2 ARC 2	Min ARC Ph OS 24 Min ARC Sl OS 24 Turbo 2 ARC 2	Flow Quant 1	Blur Can 1 Fat Eff 1 EnFnL Sup 0
Other	—	—	—	—	—	—	Gate Tab: Arryth Rej Wn 10 Trig Del Min Phases 20 VPS 8 Vasc Tab: Recon Ph Diff VENC 150-200 FlwDr Slice Collape Off Fl Anlys On	—

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL SSFP Non-Gated	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	CORONAL T1 3D	AXIAL T1 3D	Optional: OBLIQUE 2D PC Flow Analysis	Optional: Vasculitis AXIAL RT T2 Fat Sat
FOV	40	36	36-40	36-40	38	36	36	36
Slice Thickness	8	6	2	2	3	3	5	5
Spacing	0	0	0	0	0	0	0	1
Number of Slices	5-8 each Plane	40 Slices	70 Slices PRN	70 Slices PRN	116 Slices	128 Slices	4-8 Segmentation	40-50 Slices
Approx. Scan Time	0:46-0:54	± 16 sec per BH	± 20 sec per BH	± 20 sec per BH	0:23	0:23	± 20 sec per BH	± 5:00

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