VESSEL WALL 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	This is a high resolution protocol for specific areas of interest and application. Must know the region of interest to direct thin cuts
Position	Supine
Coil	High Density - 20 channel or greater
Landmark	Nasion

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	Hand Bolus usually
Saline Flush	10-20 mL	—
Comments	• Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec (Consider MPR 3 mm recons of all 3D sequences in non-acquired planes)	

IMAGING PARAMETERS

Scan Description	SAGITTAL T1 CUBE	AXIAL T1 THIN	AXIAL T2 THIN	AXIAL 3D TOF MRA	AXIAL DWI	AXIAL T2* SWAN	Post AXIAL T1 THIN	Post CORONAL T1 CUBE	Optional: Pre and Post AXIAL T1 CUBE VWI
Primary Sequence	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Optional
Mode	FSE-XL	2D	2D	3D	2D	3D	2D	3D	3D
Pulse Sequence	3D CUBE T1	FSE-XL	FSE-XL	3D TOF	SE-EPI	SWAN	FSE-XL	FSE-XL	CUBE
Imaging Options	EDR, ZIP2, ZIP512, FR, ARC	EDR, ARC	FAST, TRF, FC	FC, ASSET	EPI, DIFF, ASSET	FC, ARC ZIP2, FAST	EDR, ARC	EDR, ZIP2, ZIP512, FR, ARC	EDR, FAST, FR, ARC, HS

SCAN PARAMETERS

Scan Description	SAGITTAL T1 CUBE	AXIAL T1 THIN	AXIAL T2 THIN	AXIAL 3D TOF MRA	AXIAL DWI	AXIAL T2* SWAN	Post AXIAL T1 THIN	Post CORONAL T1 CUBE	Optional: Pre and Post AXIAL T1 CUBE VWI
TE	24	Min	90	Out-of-Phase	Min	50	Min	24	24
TR	550	500	4000	32	9000	—	500	550	800
Flip Angle	Auto	150	150	20	Auto	—	150	13	13
ETL	24	3	22	—	—	30	3	24	25
Bandwidth	62	62	62	62	125	41	62	62	62
SAT	—	—	—	S	—	—	—	Fat	Fat

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Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for GE HealthCare Systems
Central Nervous System

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	SAGITTAL T1 CUBE	AXIAL T1 THIN	AXIAL T2 THIN	AXIAL 3D TOF MRA	AXIAL DWI	AXIAL T2* SWAN	Post AXIAL T1 THIN	Post CORONAL T1 CUBE	Optional: Pre and Post AXIAL T1 CUBE VWI
MATRIX freq	256	256	256	256	128	288	256	288	224
MATRIX phase	256	256	288	256	128	256	256	288	224
NEX	1	2	2	2	1	—	2	1	2
Phase FOV	—	Full	Full	Full	1	.75	Full	0.7	0.9
Freq Direction	S/I	A/P	A/P	Slice	R/L	A/P	A/P	S/I	R/L
Image Enhance	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
FC Direction	—	Slice	Slice	Slice	—	Slice	Slice	—	—
User CV	CUBE Enh 3 ACC=2	ACC=2	ACC=2	ACC=2	DIFF Dir-All #T2 images 1 Nex 1 for T2 B1000/1 Nex OPT TE On Dual SE On ACC=2 Ramp Samp 1 Recon 1 Grad OPT 1	Phase Images ACC=2 (HyperSense 1.2 if available)	ARC	Fat Sat Eff 1 CUBE Enh 3 ACC=2	CUBE Enh 3 ACC=2 1.25 HS 1.0

SCANNING RANGE

Scan Description	SAGITTAL T1 CUBE	AXIAL T1 THIN	AXIAL T2 THIN	AXIAL 3D TOF MRA	AXIAL DWI	AXIAL T2* SWAN	Post AXIAL T1 THIN	Post CORONAL T1 CUBE	Optional: Pre and Post AXIAL T1 CUBE VWI
FOV	22	22	22	22	24	24	22	24	17
Slice Thickness	1.2	2	2	0.7	5	2.6	2	1	0.8
Spacing	—	0	0	0	1	—	0	—	—
Number of Slices	112	25	25	160	24-26	24-26	25	112	200
Scan Time	3-5 min	4-5 min	3-4 min	5-7 min	0:50 sec	5 min	4-5 min	2:30 min	3-5 min

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