ROUTINE ADULT BRAIN 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	Contrast is used for assessment of the blood-brain barrier, infection, tumor, and some stroke evaluation
Position	Supine, head first
Coil	20 channel Head or Head/Neck coil or better
Landmark	Glabella

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg	Hand Bolus
Saline Flush	10 mL	Hand Bolus
Comments	• Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL GRE	AXIAL T2	AXIAL T1	AXIAL FLAIR	Post SAGITTAL T1 SPACE
Sequence Name	epse	tir	fl_r	tseB	tir	tirB	spcR
Dimension	—	2D	2D	2D	2D	2D	3D
Acceleration Mode	GRAPPA	GRAPPA	None	None	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	2	2	—	—	2	2	2
Acceleration Factor 3D	—	—	—	—	—	—	1
AutoAlign	Head > Brain	Head > Basis	Head > Brain	Head > Brain	Head > Brain	Head > Brain	Head > Brain

ACQUISITION PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL GRE	AXIAL T2	AXIAL T1	AXIAL FLAIR	Post SAGITTAL T1 SPACE
TR	4900.0 ms	1490.0 ms	861.0 ms	3200.0 ms	1800.0 ms	8000.0 ms	600.0 ms
TE	98.0 ms	7.50 ms	23.90 ms	109.0 ms	7.50 ms	109.0 ms	8.40 ms
TI	—	688 ms	—	—	818 ms	2370 ms	—
Flip Angle	—	150 deg	20 deg	150 deg	150 deg	150 deg	Mode T1 Var
Turbo Factor	—	6	—	32	6	33	36
Bandwidth	1184 Hz/Px	240 Hz/Px	200 Hz/Px	363 Hz/Px	240 Hz/Px	363 Hz/Px	630 Hz/Px
Echo Spacing	—	7.46 ms	—	6.42 ms	7.46 ms	6.42 ms	4.18 ms
Fat-Water Contrast	Fat Saturation	Standard	Standard	Standard	Standard	Standard	Standard
Fat Saturation	Weak	—	—	—	—	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Fast	Fast	Fast	Fast	Fast	Normal
Asymmetric Echo	—	—	Off	—	—	—	—

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Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for Siemens MRI Scanners
Central Nervous System

IMAGING FORUMS, INC.

SCAN PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL GRE	AXIAL T2	AXIAL T1	AXIAL FLAIR	Post SAGITTAL T1 SPACE
Base Resolution	128	320	320	320	320	320	256
Phase Resolution	100%	70%	75%	—	70%	—	100%
Slice Resolution	—	—	—	—	—	—	86%
Averages	—	1	1	1	2	1	1
Concatenations	1	2	1	2	2	2	1
b-value	0 s/mm2 1000 s/mm2	—	—	—	—	—	—
FoV Read	220 mm	220 mm	220 mm	220 mm	220 mm	230 mm	230 mm
FoV Phase	100%	100%	100%	100%	81%	100%	100%
Phase Encoding Dir.	A >> P	A >> P	A >> P	R >> L	R >> L	R >> L	A >> P
Slice Oversampling	—	—	—	—	—	—	0%
Phase Oversampling	0%	20%	10%	0%	0%	38%	0%
Slice Partial Fourier	—	—	—	—	—	—	Off
Phase Partial Fourier	—	Off	Off	—	Off	—	Off
Flow Compensation	—	None	On	None	None	None	None

SCANNING RANGE

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL GRE	AXIAL T2	AXIAL T1	AXIAL FLAIR	Post SAGITTAL T1 SPACE
Elliptical Filter	Off	On	On	Off	On	Off	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Distortion Correction	Off	2D	2D	2D	2D	2D	2D
Slice Thickness	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm	0.9 mm
Distance Factor	0%	30%	0%	0%	0%	0%	—
Slices	30 Slices	25 Slices	30 Slices	30 Slices	30 Slices	30 Slices	192 Slices per Slab
Acquisition Time	51 sec	1:19 min	3:49 min	1:50 min	2:00 min	3:30 min	5:15 min

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