ROUTINE ADULT BRAIN 3T

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	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	2	2	2	2	2	2	2
Acceleration Factor 3D	—	—	—	—	—	—	2
AutoAlign	Head > Brain	Head > Basis	Head > Brain	Head > Brain	Head > Brain	Head > Brain	Head > Brain

SCAN PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL GRE	AXIAL T2	AXIAL T1	AXIAL FLAIR	Post SAGITTAL T1 SPACE
TR	6700.0 ms	1800.0 ms	743.0 ms	3000.0 ms	1800.0 ms	8000.0 ms	700 ms
TE	73.00 ms	9 ms	19.90 ms	101 ms	9 ms	98 ms	16 ms
TI	—	818 ms	—	—	818 ms	2370 ms	—
Flip Angle	—	150 deg	20 deg	90 deg	150 deg	150 deg	—
Turbo Factor	—	4	—	24	5	28	42
Bandwidth	1502 Hz/Px	260 Hz/Px	220 Hz/Px	363 Hz/Px	260 Hz/Px	363 Hz/Px	630 Hz/Px
EPI Factor	128	—	—	—	—	—	—
Fat Suppression	Strong	None	None	None	None	Fat Sat	None
Fat Saturation Mode	Fat Saturation	—	—	—	—	Strong	—
Water Suppression	—	—	None	None	None	None	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast	Normal
RF Pulse Type	Normal	Normal	Fast	Fast	Normal	Fast	Normal

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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.

ACQUISITION 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	—	—	—	—	—	—	91%
Averages	1, 2	1	1	1	1	1	1.6
Averaging Mode	—	Long term	Long term	Short term	Long term	Short term	—
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	220 mm	230 mm
FoV Phase	100%	100%	100%	100%	88%	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%	0%	0%	0%	0%	25%	10%
Slice Partial Fourier	—	—	—	—	—	—	Off
Phase Partial Fourier	6/8	Off	Off	—	Off	—	Off
Flow Compensation	—	No	Slice/Read	No	No	No	No

SCANNING RANGE

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL GRE	AXIAL T2	AXIAL T1	AXIAL FLAIR	Post SAGITTAL T1 SPACE
Filter	Off	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Distortion Corr.(2D), Prescan Normalize	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Distortion Corr.(2D), Prescan Normalize	Raw filter, Distortion Corr.(2D), Prescan Normalize
Elliptical Filter	—	On	On	Off	On	Off	Off
Normalize	Prescan	Off	Off	Off	Off	Off	Off
Prescan Normalize	—	On	On	On	On	On	On
Distortion Correction	Off	On	On	On	On	On	On
Slice Thickness	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm	1.0 mm
Distance Factor	0%	30%	0%	0%	30%	0%	—
Slices	30 Slices	25 Slices	30 Slices	30 Slices	24 Slices	30 Slices	176 Slices per Slab
Acquisition Time	1:09 min	1:57 min	1:40 min	1:38 min	1:24 min	4:18 min	4:12 min

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