NW
IMAGING FORUMS, INC.

TUMOR BRAIN 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	Contrast used to evaluate blood-brain barrier and for suspected tumor or infection
Position	Supine, head first
Coil	20 channel Head/Neck coil
Landmark	Glabella

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.05 mmol/kg	Hand Bolus or Power Injection	Hand Bolus or for dynamic susceptibility contrast (DSC) Perfusion use Power Injector to inject at 3-4 mL/sec after 5-6 measures
Saline Flush	10-20 mL	Hand Bolus or Power Injection	—
Comments	• May use Interpolation and Restore options • If RESOLVE is unavailable, b-values 0 & 1000 • Pre- and post-sequence should be identical and isotropic • 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 T1	AXIAL Perfusion DSC	AXIAL T2	Post SAGITTAL 3D FLAIR SPACE	Post SAGITTAL 3D T1 SPACE
Sequence Name	epse	tir	fl_r	tir	epfid	tseB	spcir	spcR
Dimension	—	2D	2D	2D	—	2D	3D	3D
Acceleration Mode	GRAPPA	GRAPPA	None	GRAPPA	GRAPPA	None	GRAPPA	GRAPPA
Acceleration Factor PE	2	2	—	2	2	—	2	2
Acceleration Factor 3D	—	—	—	—	—	—	1	1
AutoAlign	Head > Brain	Head > Basis	Head > Brain	Head > Brain	Head > Brain	Head > Brain	Head > Brain	Head > Brain

ACQUISITION PARAMETERS

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL GRE	AXIAL T1	AXIAL Perfusion DSC	AXIAL T2	Post SAGITTAL 3D FLAIR SPACE	Post SAGITTAL T1 SPACE
TR	4900.0 ms	1490.0 ms	858.0 ms	1800.0 ms	1810.0 ms	3200.0 ms	5000.0 ms	600.0 ms
TE	98.00 ms	7.50 ms	23.90 ms	7.50 ms	40.00 ms	109.00 ms	338.00 ms	8.40 ms
TI	—	688 ms	—	818 ms	—	—	1600 ms	—
Flip Angle	—	150 deg	20 deg	150 deg	90 deg	150 deg	Mode T1 Var	Mode T1 Var
Turbo Factor	—	6	—	6	—	32	249	36
Bandwidth	1184 Hz/Px	240 Hz/Px	200 Hz/Px	240 Hz/Px	1502 Hz/Px	363 Hz/Px	592 Hz/Px	630 Hz/Px
Echo Spacing	1.04 ms	7.46 ms	—	7.46 ms	1.01 ms	6.42 ms	4.02 ms	4.18 ms
EPI Factor	128	—	—	—	124	—	—	—
Fat-Water Contrast	Fat Saturation	Standard	Standard	Standard	Water Excitation	Standard	Fat Saturation	Standard
Fat Saturation	Weak	—	—	—	—	—	Strong	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Fast	Fast	Fast	Normal	Fast	Fast	Normal
Asymmetric Echo	—	—	Off	—	—	—	—	—

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

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 T1	AXIAL Perfusion DSC	AXIAL T2	Post SAGITTAL 3D FLAIR SPACE	Post SAGITTAL T1 SPACE
Base Resolution	128	320	288	320	128	320	256	256
Phase Resolution	100%	70%	75%	70%	100%	—	100%	100%
Slice Resolution	—	—	—	—	—	—	80%	86%
Averages	1, 1	1	1	2	1	1	1	1
Concatenations	1	2	1	2	1	2	1	1
b-value	0 s/mm2 1000 s/mm2	—	—	—	—	—	—	—
FoV Read	220 mm	220 mm	210 mm	220 mm	266 mm	220 mm	250 mm	230 mm
FoV Phase	100%	100%	100%	81%	97%	100%	100%	100%
Phase Encoding Dir.	A >> P	A >> P	A >> P	R >> L	A >> P	R >> L	A >> P	A >> P
Slice Oversampling	—	—	—	—	—	—	0%	0%
Phase Oversampling	0%	20%	0%	0%	0%	0%	0%	0%
Slice Partial Fourier	—	—	—	—	—	—	Off	Off
Phase Partial Fourier	6/8	Off	Off	Off	6/8	—	Allowed	Off
Flow Compensation	—	None	On	None	—	None	None	None

SCANNING RANGE

Scan Description	AXIAL DWI	SAGITTAL T1	AXIAL GRE	AXIAL T1	AXIAL Perfusion DSC	AXIAL T2	Post SAGITTAL 3D FLAIR SPACE	Post SAGITTAL T1 SPACE
Elliptical Filter	Off	On	On	On	Off	Off	Off	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Distortion Correction	Off	2D	2D	2D	2D	2D	2D	2D
Distance Factor	0%	30%	0%	30%	20%	0%	—	—
Slice Thickness	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm	5.0 mm	1.0 mm	0.9 mm
Slices	30 Slices	25 Slices	30 Slices	24 Slices	24 Slices	30 Slices	176 Slices per Slab	192 Slices per Slab
Acquisition Time	51 sec	1:19 min	3:07 min	2 min	1:36 min	1:50 min	5:27 min	5:15 min

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