TUMOR BRAIN 3T

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 postsequence 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
Mode	—	2D	2D	2D	2D	2D	2D	2D
PAT Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Dimension	—	2D	2D	2D	—	2D	3D	3D
Acceleration Factor PE	2	2	2	2	3	2	2	2
Acceleration Factor 3D	—	—	—	—	—	—	1	2
AutoAlign	Head > Brain	Head > Basis	Head > Brain	Head > Brain	Head > Brain	Head > Brain	Head > Brain	Head > Brain

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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 T1	AXIAL PERFUSION DSC	AXIAL T2	Post SAGITTAL 3D FLAIR SPACE	Post SAGITTAL 3D T1 SPACE
TR	6700.0 ms	1800.0 ms	743.0 ms	1800.0 ms	1650 ms	3000.0 ms	5000 ms	700 ms
TE	73.00 ms	9 ms	19.90 ms	9 ms	30.0 ms	101 ms	398 ms	11.0 ms
TI	—	818 ms	—	818 ms	—	—	—	—
Flip Angle	—	150 deg	20 deg	150 deg	90 deg	90 deg	Mode: T2 var	Mode: T1 var
Turbo Factor	—	4	—	5	—	24	284	38
Bandwidth	1502 Hz/Px	260 Hz/Px	220 Hz/Px	260 Hz/Px	1446 Hz/Px	363 Hz/Px	781 Hz/Px	630 Hz/Px
EPI Factor	128	—	—	—	—	—	—	—
Fat Saturation Mode	Strong	—	—	—	—	—	Strong	—
Fat Suppression	Fat Saturation	None	None	None	Fat sat.	None	Fat sat.	None
Water Suppression	—	None	None	None	—	None	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Normal	Fast	Normal	Normal	Fast	Normal	Normal
Asymmetric Echo	—	—	Off	—	—	—	—	—

ACQUISITION 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
Base Resolution	128	320	320	320	128	320	256	256
Phase Resolution	100%	70%	75%	70%	100%	—	100%	100%
Slice Resolution	—	—	—	—	—	—	80%	91%
Averages	1, 2	1	1	1	1	1	1	1.4
Averaging Mode	—	Long term	Long term	Long term	Long term	Short term	—	—
Concatenations	1	2	1	2	1	2	1	1
b-value	0 s/mm2 1000 s/mm2	—	—	—	—	—	—	—
FoV Read	220 mm	220 mm	220 mm	220 mm	220 mm	220 mm	250 mm	230 mm
FoV Phase	100%	100%	100%	88%	100%	100%	100%	100%
Phase Encoding Dir.	A >> P	A >> P	A >> P	R >> L	A >> P	R >> L	A >> P	A >> P
Phase Oversampling	0%	0%	0%	0%	0%	0%	0%	10%
Slice Oversampling	—	—	—	—	—	—	—	0%
Phase Partial Fourier	6/8	Off	—	Off	Off	—	Allowed	Off
Slice Partial Fourier	—	—	Off	—	—	—	6/8	Off
Flow Compensation	—	No	Slice/Read	No	—	No	No	No

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IMAGING FORUMS, INC.

SCANNING RANGE

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
Elliptical Filter	Off	On	On	On	Off	Off	Off	Off
Filter	—	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Raw filter, Distortion Corr.(2D), Prescan Normalize	Distortion Corr.(2D), Prescan Normalize	Raw filter, Distortion Corr.(2D), Prescan Normalize	Raw filter, Distortion Corr.(2D), Prescan Normalize
Normalize	Prescan	Off	Off	Off	On	Off	On	Off
Prescan Normalize	—	On	On	On	0%	On	Off	On
Distortion Correction	Off	On	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	1.0 mm
Distance Factor	0%	30%	0%	30%	—	0%	—	—
Slices	30 Slices	25 Slices	30 Slices	24 Slices	25 Slices	30 Slices	176 Slices per Slab	176 Slices per Slab
Acquisition Time	1:09 min	1:57 min	1:40 min	1:24 min	1:49 min	1:38 min	3:42 min	4:04 min

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