NW
IMAGING FORUMS, INC.

TUMOR BRAIN 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Contrast is used for assessment of the blood-brain barrier, infection, tumor, and some stroke evaluation • T2* GRE susceptibility sequence used for trauma, evaluation for blood, and seizure cases • Perfusion sequence is optional in stroke or tumor cases
Position	Supine, head first
Coil	Head, HNU (Head 24 selected if possible)
Landmark	Glabella or chin

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.1 mmol/kg up to a calculated volume of 15 mL	Power inject perfusion at 4 mL/sec	Start scan and inject contrast after 20 sec of scanning
Saline Flush	20-30 mL		
Comments	• Report agent administered and dose • Consider MPR 3 mm recons of all 3D sequences in all non-acquired planes		

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1	AXIAL T2 FSFSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	AXIAL DSC PWI	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Optional: SAGITTAL 3D T2 CUBE	Optional: AXIAL T2* SWAN
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No
Mode	2D	2D	2D	3D BRAVO	2D	2D	2D	3D	3D BRAVO	3D	3D	3D
Pulse Sequence	SSFSE	FSE-XL	FRFSE-XL	BRAVO	SE-EPI	GRE	GRE EPI	CUBE	BRAVO	CUBE	FSE-XL	SWAN
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	TRF, FAST, ZIP512	FC, TRF, FR, ZIP512	FAST, IRP, ZIP2, ASSET	EPI, DIFF, ASSET	FC	ASSET, EPI, Mph	ARC, T2- IRP, ZIP2, EDR	FAST, IRP, ZIP2, ASSET	EDR, ZIP2, ZIP512, FR, ARC	EDR, FAST, FR, ZIP2, ARC	FC, ASSET, ZIP2, FAST

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1	AXIAL T2 FSFSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	AXIAL DSC PWI	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Optional: SAGITTAL 3D T2 CUBE	Optional: AXIAL T2* SWAN
TE	80	Min-Full	68	—	Min	20	45	—	—	24	90	50
TR	Min	550	3500-4250	—	9000	500	1500	6000	—	550	2400	—
TI	—	—	—	450	—	600-800	—	1954 (Fixed with TR)	450	—	—	—
Flip Angle	—	—	Auto	13	Auto	10	30	Auto	13	13	—	30
ETL	—	4	25	—	—	—	—	160	—	24	120	—
Bandwidth	83	20	31	25	125	20	Default	32	25	62	41	41
Sat	—	—	Fat	—	—	—	—	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	3PL LOCALIZER	SAGITTAL T1	AXIAL T2 FSFSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	AXIAL DSC PWI	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Optional: SAGITTAL 3D T2 CUBE	Optional: AXIAL T2* SWAN
MATRIX freq	256	256	320	256	128	256	128	256	256	288	288	288
MATRIX phase	192	224	256	256	128	224	64	256	256	288	288	256
NEX	1	2	2	1	1	1	1	1	1	1	1	—
Phase FOV	1	1	0.75	—	1	0.75	1	—	—	0.7	1	.75
Freq Direction	Unswap	S/I	A/P	A/P	R/L	A/P	R/L	S/I	A/P	S/I	S/I	A/P
Image Enhance	—	PURE	PURE	PURE	PURE	PURE	—	PURE	PURE	PURE	PURE	PURE
FC Direction	—	—	Slice	—	—	Slice	—	—	—	—	—	Slice
User CV	—	—	—	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	—	1 Shot 75 ph/loc Inter Delay Min ACC=2 Ramp Samp on Phase Correct on	ACC=2 SL=2	ACC=2	Fat Sat Eff 1 CUBE Enh 3 ACC=2	ACC=2 OPT HS 1.2	ACC=2

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1	AXIAL T2 FSFSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	AXIAL DSC PWI	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Optional: SAGITTAL 3D T2 CUBE	Optional: AXIAL T2* SWAN
FOV	30	24	22	25	24	24	24	25	25	24	24	24
Slice Thickness	7	5	5	2.4	5	4	6	1.6	1.2	1	1.2	2.6
Spacing	5	Interleaved	Interleaved	0	1	1	1	0	0	—	—	—
Number of Slices	7-Ax/Sag/Cor	—	24-26	70 locs	24-26	24-26	18	126	140	112	112	24-26
Scan Time	0:18 sec	2-3 min	~2-3 min	2:30 min	~2-3 min	2:30 min	1:53 min	3-5 min	4 min	2:30 min	3-5 min	5 min

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