NW
IMAGING FORUMS, INC.

TUMOR BRAIN 3.0T

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	10-20 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 FLAIR	AXIAL T2 FS FSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	AXIAL DSC PWI	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 3D CUBE	Optional: SAGITTAL T2 3D CUBE	Optional: AXIAL T2* SWAN
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Optional	Yes	Yes	Yes T1	Alternative T2	Alternative 3D T2*
Mode	2D	2D	2D	3D BRAVO	2D	2D	2D	3D	3D BRAVO	3D	3D	3D
Pulse Sequence	SSFSE	IR	FRFSE-XL	BRAVO	SE-EPI	GRE	GRE EPI	CUBE	BRAVO	CUBE	CUBE	GRE
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	FC, TRF, SEQ, FAST	FC, TRF	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 FLAIR	AXIAL T2 FS FSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	AXIAL DSC PWI	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 3D CUBE	Optional: SAGITTAL T2 3D CUBE	Optional: AXIAL T2* SWAN
TE	80	24	80	—	Min	25	30	Fixed with TR	—	24	82	44
TR	1000	3500	3500-4250	—	9000	800	1500	6000	—	550	2500	—
TI	—	Auto	—	450	—	—	—	1954 (Fixed with TR)	450	—	—	—
Flip Angle	—	Auto	Auto	13	—	20	30	Auto	13	—	—	15
ETL	—	8	19	—	—	—	—	160	—	24	100	—
Bandwidth	83	41	41	25	125	31	Default	32	25	62	62	62
Sat	—	—	Fat	—	—	—	—	Fat	—	Fat	—	—

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 GE HealthCare Systems
Central Nervous System

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	AXIAL T2 FS FSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	AXIAL DSC PWI	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 3D CUBE	Optional: SAGITTAL T2 3D CUBE	Optional: AXIAL T2* SWAN
MATRIX freq	256	352	384	256	128	320	96	256	256	256	320	288
MATRIX phase	192	224	256	256	128	256	96	256	256	256	320	224
NEX	1	2	2	1	1	1	1	1	1	1	1	160
Phase FOV	1	1	0.75	—	1	0.75	1	—	—	.8	1	1
Freq Direction	Unswap	S/I	A/P	A/P	R/L	A/P	R/L	S/I	A/P	S/I	S/I	1
Image Enhance	—	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
FC Direction	—	—	Slice	—	—	Slice	—	—	—	—	—	—
User CV	—	CV12 1 CV22 1	—	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	CUBE Enh 3 ACC=2	ACC=2 OPT HS 1.2	Phase Images ACC=2

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	AXIAL T2 FS FSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	AXIAL DSC PWI	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 3D CUBE	Optional: SAGITTAL T2 3D CUBE	Optional: AXIAL T2* SWAN
FOV	30	24	22	25	24	22	22	25	25	24	25	22
Slice Thickness	7	3	4	2.4	5	5	6	1.6	1.2	1	1.6	3
Spacing	5	1	1	—	1	.5	1	—	—	—	—	—
Number of Slices	7-Ax/Sag/Cor	—	24-26	70	24-26	24-26	16	126	140	200	112	24-26
Scan Time	0:18 sec	2-3 min	~2-3 min	2:30 min	0:50 sec	2 min	1:53 min	3-5 min	4 min	3-5 min	3-5 min	3-5 min

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.