ROUTINE ADULT 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
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	Hand Bolus usually For perfusion-weighted imaging (PWI), Use 0.1 mmol/kg up to a calculated volume of 15 mL @ 4 mL/sec
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	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE	Optional: SAGITTAL 3D T2 CUBE	Optional: AXIAL T2* SWAN
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes T1	Alternative T2	Alternative 3D T2*
Mode	2D	2D	2D	3D BRAVO	2D	2D	3D	3D BRAVO	3D	3D	3D
Pulse Sequence	SSFSE	IR	FRFSE-XL	BRAVO	SE-EPI	GRE	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	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	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE	Optional: SAGITTAL 3D T2 CUBE	Optional: AXIAL T2* SWAN
TE	80	24	80	—	Min	25	Fixed with TR	—	24	82	44
TR	1000	3500	3500-4250	—	9000	800	6000	—	550	2500	—
TI	—	Auto	—	450	—	—	1954 (Fixed with TR)	450	—	—	—
Flip Angle	—	Auto	Auto	13	—	20	Auto	13	—	—	15
ETL	—	8	19	—	—	—	160	—	24	100	—
Bandwidth	83	41	41	25	125	31	32	25	62	62	62
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 FLAIR	AXIAL T2 FS FSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE	Optional: SAGITTAL 3D T2 CUBE	Optional: AXIAL T2* SWAN
MATRIX freq	256	352	384	256	128	320	256	256	256	320	288
MATRIX phase	192	224	256	256	128	256	256	256	256	320	224
NEX	1	2	2	1	1	1	1	1	1	1	160
Phase FOV	1	1	0.75	—	1	0.75	—	—	0.7	1	1
Freq Direction	Unswap	S/I	A/P	A/P	R/L	A/P	S/I	A/P	S/I	S/I	1
Image Enhance	—	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	—	ACC=2 SL=2	ACC=2	CUBE Enh 3 ACC=2	ACC=2 OPT HS 1.2	Phase Images ACC=2 (HyperSense 1.2 if available)

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	AXIAL T2 FS FSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE	Optional: SAGITTAL 3D T2 CUBE	Optional: AXIAL T2* SWAN
FOV	30	24	22	25	24	22	25	25	24	25	22
Slice Thickness	7	3	4	2.4	5	5	1.6	1.2	1.8	1.6	3
Spacing	5	1	1	—	1	.5	—	—	—	—	—
Number of Slices	7-Ax/Sag/Cor	—	24-26	70	24-26	24-26	126	140	160	112	24-26
Scan Time	0:18 sec	2-3 min	~2-3 min	2:30 min	:50 sec	2 min	3-5 min	4 min	3-5 min	2:30 min	3-5 min

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