EPILEPSY BRAIN 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• New onset seizures should be performed as Routine Brain with/without contrast • Coronal Oblique perpendicular to temporal lobe/hippocampus • This exam is performed in addition to some Routine Brain sequences. Axial GRE T2*W sequence required • Contrast can be used for adult examinations
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
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 • Hi Res Coronal or Axial STIR for Cortical Dysplasia or Mesial temporal Sclerosis	

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	AXIAL T2 FS FSE	AXIAL T2* GRE	AXIAL DWI	CORONAL OBLIQUE T2	CORONAL 3D BRAVO	Post SAGITTAL FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE	CORONAL or AXIAL Hi Res STIR
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes T1	No
Mode	2D	2D	2D	2D	2D	2D	3D BRAVO	3D	3D BRAVO	3D	2D
Pulse Sequence	SSFSE	IR	FRFSE-XL	GRE	SE-EPI	FRFSE-XL	BRAVO	CUBE	BRAVO	CUBE	FSE
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	FC, TRF, SEQ, FAST	FC, TRF	FC	EPI, DIFF, ASSET	FC, TRF, NPW	FAST, IRP, ZIP2, ASSET	ARC, T2-IRP, ZIP2, EDR	FAST, IRP, ZIP2, ASSET	EDR, ZIP2, ZIP512, FR, ARC	SEQ, EDR, TRF, FAST, ARC, IrP

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	AXIAL T2 FS FSE	AXIAL T2* GRE	AXIAL DWI	CORONAL OBLIQUE T2	CORONAL 3D BRAVO	Post SAGITTAL FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE	CORONAL or AXIAL Hi Res STIR
TE	80	24	80	25	Min	85	—	Fixed with TR	—	24	42
TR	1000	3500	3500-4250	800	9000	4250	—	6000	—	550	10000
TI	—	Auto	—	—	—	—	450	1954 (Fixed with TR)	450	—	300
Flip Angle	—	Auto	Auto	20	—	Auto	13	Auto	13	13	142
ETL	—	8	19	—	—	19	—	160	—	24	14
Bandwidth	83	41	41	31	125	32	25	32	25	62	50
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 T2* GRE	AXIAL DWI	CORONAL OBLIQUE T2	CORONAL 3D BRAVO	Post SAGITTAL FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE	CORONAL or AXIAL Hi Res STIR
MATRIX freq	256	352	384	320	128	320	256	256	256	256	480
MATRIX phase	192	224	256	256	128	256	256	256	256	256	256
NEX	1	2	2	1	1	1	1	1	1	1	2
Phase FOV	1	1	1	1	1	1	—	—	—	0.7	—
Freq Direction	Unswap	S/I	A/P	A/P	R/L	S/I	A/P	S/I	A/P	S/I	S/I or A/P
Image Enhance	—	PURE	PURE	PURE	PURE	PURE	SCIC	PURE	PURE	PURE	PURE
FC Direction	—	—	Slice	Slice	—	Slice	—	—	—	—	—
User CV	—	CV12 1 CV22 1	—	—	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=1.5	ACC=2 SL=2	ACC=2	CUBE Enh 3 ACC=2	CV29 1 CV30 1 ACC=2

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	AXIAL T2 FS FSE	AXIAL T2* GRE	AXIAL DWI	CORONAL OBLIQUE T2	CORONAL 3D BRAVO	Post SAGITTAL FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE	CORONAL or AXIAL Hi Res STIR
FOV	30	24	22	22	24	20	20	25	25	24	17
Slice Thickness	7	3	4	5	5	3	2	1.6	1.2	1.8	3
Spacing	5	1	1	.5	1	0.3	0	—	—	—	0
Number of Slices	7-Ax/Sag/Cor	—	24-26	24-26	24-26	25-32	92	126	140	112	92
Scan Time	0:18 sec	2-3 min	~2-3 min	2 min	0:50 sec	~3.5-4 min	3:30 min	3-5 min	4 min	3-5 min	7-9 min

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