EPILEPSY BRAIN 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• New onset seizures should be performed as Routine Brain with/without contrast • Coronals 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/Nasion

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	AXIAL T2 FSFSE	AXIAL DWI	AXIAL T2* GRE	CORONAL OBLIQUE T2	CORONAL OBLIQUE 3D BRAVO	Pre or Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Hi Res CORONAL or AXIAL STIR
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Mode	2D	2D	2D	2D	2D	2D	3D BRAVO	3D	3D BRAVO	3D	2D
Pulse Sequence	SSFSE	FSE-XL	FRFSE-XL	SE-EPI	GRE	FRFSE-XL	BRAVO	CUBE	BRAVO	CUBE	FSE
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	TRF, FAST, ZIP512	FC, TRF, FR, ZIP512	EPI, DIFF, ASSET	FC	FC, TRF, FAST, ZIP512, FR	FAST, IRP, ZIP2, ARC	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	AXIAL T2 FSFSE	AXIAL DWI	AXIAL T2* GRE	CORONAL OBLIQUE T2	CORONAL OBLIQUE 3D BRAVO	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Hi Res CORONAL or AXIAL STIR
TE	80	Min-Full	68	Min	20	68	—	—	—	24	42
TR	Min	550	3500-4250	9000	500	4250	—	6000	—	550	10000
TI	—	—	—	—	—	—	450	1954 (Fixed with TR)	450	—	300
Flip Angle	—	—	Auto	Auto	20	Auto	13	Auto	13	Auto	142
ETL	—	4	25	—	—	25	—	160	—	24	14
Bandwidth	83	20	31	125	20	32	31	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	AXIAL T2 FSFSE	AXIAL DWI	AXIAL T2* GRE	CORONAL OBLIQUE T2	CORONAL OBLIQUE 3D BRAVO	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Hi Res CORONAL or AXIAL STIR
MATRIX freq	256	256	320	128	256	256	288	256	256	288	480
MATRIX phase	192	224	256	128	224	192	288	256	256	288	256
NEX	1	2	2	1	1	2	1	1	1	1	2
Phase FOV	1	1	1	1	1	1	—	—	—	1	—
Freq Direction	Unswap	S/I	A/P	R/L	A/P	S/I	S/I	S/I	A/P	S/I	S/I or A/P
Image Enhance	—	PURE	PURE	PURE	PURE	SCIC	PURE	PURE	PURE	PURE	PURE
FC Direction	—	—	Slice	—	Slice	Freq	—	—	—	—	—
User CV	—	—	—	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	Fat Sat Eff 1 CUBE Enh 3 ACC=2	CV29 1 CV30 1 ACC=2

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1	AXIAL T2 FSFSE	AXIAL DWI	AXIAL T2* GRE	CORONAL OBLIQUE T2	CORONAL OBLIQUE 3D BRAVO	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Hi Res CORONAL or AXIAL STIR
FOV	30	24	22	24	24	20	20	25	25	24	17
Slice Thickness	7	5	5	5	4	3	2	1.6	1.2	1.2	3
Spacing	5	Interleaved	Interleaved	1	1	0.3	0	0	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	~2-3 min	2:30 min	~3.5-4 min	4 min	3-5 min	4 min	2:30 min	7-9 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.