NW
IMAGING FORUMS, INC.

BRAIN EPILEPSY - SEIZURES 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• New onset seizures should be performed as Routine Brain with/without contrast • Contrast can be used for adult examinations • Partial complex seizure, intractable seizure in pediatric patients
Position	Supine, head first
Coil	20 channel Head and Neck coil or better
Landmark	Glabella

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg	Hand Bolus
Saline Flush	10 mL	Hand Bolus
Comments	• May use Interpolation & Restore options with lower TR's • May do postcontrast. Whole brain coverage • MPR to form Coronal Oblique images if not obtained directly. Cover and position perpendicular to temporal lobe • Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	AXIAL DWI	AXIAL GRE	AXIAL T2	CORONAL T2 Temporal Lobe	CORONAL T1 MPRAGE	Post CORONAL FLAIR SPACE	Post CORONAL T1 SPACE
Sequence Name	epse	fl_r	tse	tse	tfl	spcir	spcir
Dimension	—	2D	2D	2D	3D	3D	3D
Acceleration Mode	GRAPPA	None	GRAPPA	None	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	2	—	4	—	2	2	2
Acceleration Factor 3D	—	—	—	—	1	1	1
AutoAlign	Head > Brain	Head > Brain	Head > Brain	Head > Temporal Lobe	Head > Brain	Head > Brain	Head > Brain

ACQUISITION PARAMETERS

Scan Description	AXIAL DWI	AXIAL GRE	AXIAL T2	CORONAL T2 Temporal Lobe	CORONAL T1 MPRAGE	Post CORONAL FLAIR SPACE	Post CORONAL T1 SPACE
TR	4800.0 ms	861.0 ms	5510.0 ms	5000.0 ms	2200.0 ms	5000.0 ms	5000.0 ms
TE	82.00 ms	24.00 ms	92.00 ms	99.00 ms	3.02 ms	215.00 ms	215.00 ms
TI	—	—	—	—	900 ms	1600 ms	1600 ms
Flip Angle	—	20 deg	150 deg	160 deg	8 deg	Mode T2 Var	Mode T2 Var
Turbo Factor	—	—	19	20	202	248	248
Bandwidth	1502 Hz/Px	200 Hz/Px	191 Hz/Px	300 Hz/Px	160 Hz/Px	592 Hz/Px	592 Hz/Px
EPI Factor	128	—	—	—	—	—	—
Fat-Water Contrast	Fat Saturation	Standard	Standard	Standard	Standard	Fat Saturation	Fat Saturation
Fat Saturation	Weak	—	—	—	—	Strong	Strong
Gradient Mode	Fast	Fast	Normal	Normal	Fast	Fast	Fast
RF Pulse Type	Normal	Fast	Fast	Normal	Fast	Fast	Fast
Asymmetric Echo	—	Off	—	—	Allowed	—	—

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 Siemens MRI Scanners
Central Nervous System

IMAGING FORUMS, INC.

SCAN PARAMETERS

Scan Description	AXIAL DWI	AXIAL GRE	AXIAL T2	CORONAL T2 Temporal Lobe	CORONAL T1 MPRAGE	Post CORONAL FLAIR SPACE	Post CORONAL T1 SPACE
Base Resolution	128	320	384	320	256	256	256
Phase Resolution	100%	70%	100%	80%	100%	90%	90%
Slice Resolution	—	—	—	—	90%	75%	75%
Averages	—	1	—	2	1	1	1
Concatenations	1	1	1	1	1	1	1
FoV Read	220 mm	220 mm	220 mm	200 mm	250 mm	250 mm	250 mm
FoV Phase	100%	81%	81%	100%	91%	88%	88%
Phase Encoding Dir.	A >> P	R >> L	R >> L	R >> L	R >> L	R >> L	R >> L
Slice Oversampling	—	—	—	—	27%	27%	27%
Phase Oversampling	0%	0%	30%	30%	0%	0%	0%
Slice Partial Fourier	—	—	—	—	Off	7/8	7/8
Phase Partial Fourier	6/8	Off	Off	Off	Off	Allowed	Allowed
Flow Compensation	—	On	None	None	None	None	None

SCANNING RANGE

Scan Description	AXIAL DWI	AXIAL GRE	AXIAL T2	CORONAL T2 Temporal Lobe	CORONAL T1 MPRAGE	Post CORONAL FLAIR SPACE	Post CORONAL T1 SPACE
Raw Filter	On	Off	Off	Off	Off	On	On
Elliptical Filter	Off	On	Off	Off	On	Off	Off
Distortion Correction	Off	2D	2D	2D	2D	2D	2D
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Distance Factor	0%	0%	0%	0%	50%	—	—
Slice Thickness	5.0 mm	5.0 mm	5.0 mm	3.0 mm	1.0 mm	1.00 mm	1.00 mm
Slices	30 Slices	30 Slices	30 Slices	25 Slices	176 Slices per Slab	176 Slices per Slab	176 Slices per Slab
Acquisition Time	50 sec	2:38 min	1:48 min	2:57 min	4:41 min	5:42 min	5:42 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.