NW
IMAGING FORUMS, INC.

MULTIPLE SCLEROSIS BRAIN 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	These sequences done in addition to Routine Adult Brain protocol
Position	Supine, head first
Coil	20 channel Head/Neck coil
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 • May scan postcontrast to allow more time for postcontrast T1 sequences • Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

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

ACQUISITION PARAMETERS

Scan Description	AXIAL DWI	AXIAL T2	SAGITTAL T1 MPRAGE	AXIAL GRE	Post SAGITTAL FLAIR SPACE	Post SAGITTAL T1 SPACE
TR	4900.0 ms	3200.0 ms	2200.0 ms	858.0 ms	5000.0 ms	600.0 ms
TE	98.00 ms	109.00 ms	3.39 ms	23.90 ms	338.00 ms	8.40 ms
TI	—	—	900 ms	—	1600 ms	—
Flip Angle	—	150 deg	8 deg	20 deg	T2 Var	T1 Var
Turbo Factor	—	32	182	—	249	36
Bandwidth	1184 Hz/Px	363 Hz/Px	150 Hz/Px	200 Hz/Px	592 Hz/Px	630 Hz/Px
Echo Spacing	1.04 ms	6.42 ms	8.46 ms	—	4.02 ms	4.18 ms
EPI Factor	128	—	—	—	—	—
Fat-Water Contrast	Fat Saturation	Standard	Standard	Standard	Fat Saturation	Standard
Fat Saturation	Weak	—	—	—	Strong	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Fast	Fast	Fast	Fast	Normal
Asymmetric Echo	—	—	Allowed	Off	—	—

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 T2	SAGITTAL T1 MPRAGE	AXIAL GRE	Post SAGITTAL FLAIR SPACE	Post SAGITTAL T1 SPACE
Base Resolution	128	320	256	288	256	256
Phase Resolution	100%	—	100%	75%	100%	100%
Slice Resolution	—	—	81%	—	80%	86%
Averages	—	1	1	1	1	1
Concatenations	1	2	1	1	1	1
b-value	0 s/mm2 1000 s/mm2	—	—	—	—	—
FoV Read	220 mm	220 mm	240 mm	220 mm	250 mm	230 mm
FoV Phase	100%	100%	100%	100%	100%	100%
Phase Encoding Dir.	A >> P	R >> L	A >> P	A >> P	A >> P	A >> P
Slice Oversampling	—	—	17%	—	0%	0%
Phase Oversampling	0%	0%	10%	0%	0%	0%
Slice Partial Fourier	—	—	Off	—	Off	Off
Phase Partial Fourier	6/8	—	Off	Off	Allowed	Off
Flow Compensation	—	None	None	On	None	None

SCANNING RANGE

Scan Description	AXIAL DWI	AXIAL T2	SAGITTAL T1 MPRAGE	AXIAL GRE	Post SAGITTAL FLAIR SPACE	Post SAGITTAL T1 SPACE
Elliptical Filter	Off	Off	On	On	Off	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Distortion Correction	Off	2D	2D	2D	2D	2D
Distance Factor	0%	0%	50%	0%	—	—
Slice Thickness	5.0 mm	5.0 mm	1.2 mm	5.0 mm	1.0 mm	0.9 mm
Slices	30 Slices	30 Slices	192 Slices per Slab	30 Slices	176 Slices per Slab	192 Slices per Slab
Acquisition Time	51 sec	1:50 min	5:38 min	3:07 min	5:27 min	5:15 min

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