NW
IMAGING FORUMS, INC.

MULTIPLE SCLEROSIS BRAIN 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Exam consists of a high resolution Sagittal FLAIR sequence to visualize the corpus callosum • This exam is performed in addition to a brain MRI • Contrast is used for most adult examinations to evaluate for active demyelination
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 Perfusion-weighted imaging (PWI), injector at 4-5 mL/sec
Saline Flush	10-20 mL	Hand Flush
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	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 3D CUBE
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes T1
Mode	2D	2D	2D	3D BRAVO	2D	2D	3D	3D BRAVO	3D
Pulse Sequence	SSFSE	IR	FRFSE-XL	BRAVO	SE-EPI	GRE	CUBE	BRAVO	CUBE
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

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	AXIAL T2 FS FSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 3D CUBE
TE	80	24	80	—	Min	25	Fixed with TR	—	24
TR	1000	3500	3500-4250	—	9000	800	6000	—	550
TI	—	Auto	—	450	—	—	1954 (Fixed with TR)	450	—
Flip Angle	—	Auto	Auto	13	—	20	Auto	13	13
ETL	—	8	19	—	—	—	160	—	24
Bandwidth	83	41	41	25	125	31	32	25	62
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

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ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	AXIAL T2 FS FSE	AXIAL T1 3D BRAVO	AXIAL DWI	AXIAL T2* GRE	Post SAGITTAL T2 FLAIR CUBE	Post AXIAL T1 3D BRAVO	Post CORONAL T1 3D CUBE
MATRIX freq	256	352	384	256	128	320	256	256	256
MATRIX phase	192	224	256	256	128	256	256	256	256
NEX	1	2	2	1	1	1	1	1	1
Phase FOV	1	1	0.75	—	1	0.75	—	—	0.7
Freq Direction	Unswap	S/I	A/P	A/P	R/L	A/P	S/I	A/P	S/I
Image Enhance	—	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

SCANNING RANGE

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

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