THORACIC SPINE 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Sagittal - Cover through foramina, T1-conus • Axial - Top of T11 through T12 - can use two stacks (upper and lower) angled to disc spaces • For sequences with Fat Sat, place shim centered on upper T-Spine to improve quality
Common Indications	Tumor, multiple sclerosis, infection, post surgery
Position	Supine, head first
Coil	C/T/L (CTL245), HNU + GEMS Spine
Landmark	Mid neck

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	Hand injection
Saline Flush	10-20 mL	Hand injection

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER Upper and Lower	SAGITTAL T2	SAGITTAL T1 FLAIR	SAGITTAL STIR	AXIAL T2	Pre and Post AXIAL T1	Post SAGITTAL T1 FS
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mode	2D Std Loc	2D	2D	2D	2D	2D	2D
Pulse Sequence	SSFSE	FSE-XL	FSE-XL	FSE-IR	FSE-XL	FSE-XL	FSE-XL
Parallel Imaging	2	No	No	No	No	No	No
Options	SEQ, TRF, EDR, FAST, SS, ARC	NPW, FC, TRF, FAST	FC, NPW, SEQ, EDR, T1 FLAIR TRF, FAST	FC, NPW, SEQ, EDR, TRF, FAST, IrP	NPW, FC, TRF, FAST	NPW, ZIP512	TRF, FAST

SCAN PARAMETERS

Scan Description	3PL LOCALIZER Upper and Lower	SAGITTAL T2	SAGITTAL T1 FLAIR	SAGITTAL STIR	AXIAL T2	Pre and Post AXIAL T1	Post SAGITTAL T1 FS
TE	80	102	24	42	85	15	15
TR	Min	4000	3500	4000	4000	650	500-700
TI	—	—	Auto	180	—	—	—
Flip Angle	—	Auto	Auto	Auto	Auto	Auto	Auto
ETL	—	21	8	10	27	4	3
Bandwidth	—	41	41	20	31	31	20
SAT	83	Anterior	Anterior	Anterior	Anterior	Anterior/Optional Fat post contrast	Anterior/Fat
NPW	—	Yes	Yes	Yes	Yes	Yes	Yes

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER Upper and Lower	SAGITTAL T2	SAGITTAL T1 FLAIR	SAGITTAL STIR	AXIAL T2	Pre and Post AXIAL T1	Post SAGITTAL T1 FS
MATRIX freq	256	384	320	288	320	320	320
MATRIX phase	128	224	224	192	224	192	192
NEX	1	3	2	3	2	2	3
Freq DIR	—	A/P	A/P	A/P	A/P	A/P	A/P
FC Direction	—	Freq	Freq	Freq	Slice	Slice	Freq

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.

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MR Gadopiclenol (VUEWAY®) Protocol for GE HealthCare Systems
Central Nervous System

IMAGING FORUMS, INC.

SCANNING RANGE

Scan Description	3PL LOCALIZER Upper and Lower	SAGITTAL T2	SAGITTAL T1 FLAIR	SAGITTAL STIR	AXIAL T2	Pre and Post AXIAL T1	Post SAGITTAL T1 FS
FOV	40	32	32	32	20	20	32
Phase FOV	—	1	1	1	1	1	1
Filter	—	PURE	PURE	PURE	PURE	PURE	PURE
Slice Thickness	5	3	3	3	4	4	3
Spacing	10	0.3	0.3	0.3	1	1	0.3
Number of Slices	10-15 each plane	12-17	12-17	12-17	30-40	28-35	12-17
Scan Time	0:25 sec	~4 min	~2-3 min	~4 min	~4 min	~3-4 min	~2-3 min

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