NW
IMAGING FORUMS, INC.

LUMBAR SPINE 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Sagittal - Cover through foramina, T11-thecal sac • Axial - Bottom of T12 through thecal sac. Can use two stacks (upper and lower) angled to disc spaces
Common Indications	Tumor, infection, post surgery
Position	Supine head first for CTL Coil, or Supine Feet First for Gems Table
Coil	C/T/L (CTL456), GEMS Spine
Landmark	1-2" above iliac crest

CONTRAST AGENT PARAMETERS

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

Comments	—	—	—	—	Can angle to the disc spaces or stack axially	Can angle to the disc spaces or stack axially	—	Post contrast	Optional for T1 contrast

IMAGING PARAMETERS

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

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1	SAGITTAL T2	SAGITTAL STIR	AXIAL T2	AXIAL T1	Pre and Post AXIAL T1	Post SAGITTAL T1 FS	SAGITTAL T1
TE	80	Min-Full	85	60	87	Min-Full	Min-Full	Min-Full	24
TR	Min	800	4000	3500	4000	800	650	500-700	2100
TI	—	—	—	160	—	—	—	—	Auto
Flip Angle	—	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
ETL	—	3	27	10	12	3	4	3	8
Bandwidth	—	31	41	31	31	25	31	20	35
SAT	83	Anterior	Anterior	Anterior	Anterior	Anterior	Anterior/Optional Fat post contrast	Anterior/Fat	Anterior

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1	SAGITTAL T2	SAGITTAL STIR	AXIAL T2	AXIAL T1	Pre and Post AXIAL T1	Post SAGITTAL T1 FS	SAGITTAL T1
MATRIX freq	256	320	320	288	320	288	256	384	256
MATRIX phase	128	224	224	256	224	192	192	256	256
NEX	1	3	4	2	2	2	2	3	2
Freq DIR	—	S/I	S/I	S/I	A/P	A/P	A/P	S/I	S/I
FC Direction	—	—	Freq	Freq	Slice	—	Slice	No	No

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.

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1	SAGITTAL T2	SAGITTAL STIR	AXIAL T2	AXIAL T1	Pre and Post AXIAL T1	Post SAGITTAL T1 FS	SAGITTAL T1
FOV	40	28	28	28	22	22	20	28	28
Phase FOV	—	.9	.9	.9	.9	.9	1	1	.9
Filter	—	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
Slice Thickness	5	4	4	4	4	4	4	3	4
Spacing %	10	.4	.4	.4	1	1	1	.3	.4
Number of Slices	10-15 each plane	14-20	14-20	14-20	25-35	25-35	28-35	12-17	15
Acquisition Time	0:25 sec	~3.5-4 min	~3 min	~4.5 min	~4-6 min	~4-6 min	~3-4 min	~2-3 min	~3-4 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.