NW
IMAGING FORUMS, INC.

CERVICAL SPINE 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Sagittal - cover through foramina • Axial - Base of skull through C7. For sequences with Fat Sat, place shim centered on upper C-Spine to improve quality • Instruct patients to try not to swallow, lick their lips, or move their chin
Common Indications	Tumor, multiple sclerosis, infection
Position	Supine, head first
Coil	C/T/L Coil (C12) or Head/Neck coil
Landmark	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									
Saline Flush	10-20 mL	Hand Bolus									
Comments	—	—	—	—	—	—	—	Alternate for metal reduction	Trauma	Trauma use Shim to reduce banding	Optional Trauma in Coronal CUBE STIR FOCUS not available

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	SAGITTAL T2	SAGITTAL STIR	AXIAL MERGE	Pre and Post AXIAL T1	Post SAGITTAL T1 FS	AXIAL T2	CORONAL CUBE STIR FOCUS	SAGITTAL 3D FIESTA	CORONAL T2 IDEAL
Primary Sequence	Yes	Yes	Yes	Yes	Yes	Yes	Yes Post contrast	No	No	No	No
Mode	2D	2D	2D	2D	2D	2D	2D	2D	3D	3D	2D
Pulse Sequence	SSFSE	T1 FLAIR	FRFSE-XL	FSE-IR	MERGE	FSE-XL	FSE-XL	FSE-XL	CUBE	Fiesta-C	FSE-XL
Parallel Imaging	—	No	No	2	2	No	No	No	Yes	No	No
Options	SEQ, EDR, FAST, SS, ARC, TRF	NPW, TRF, EDR, SEQ, FAST	NPW, FC, TRF, FAST, FR	SEQ, FC, ARC, PROPELLER, TRF	FC, NPW, TRF, FAST, FR	TRF, FAST, NPW	TRF, FAST	TRF, FAST, NPW	EDR, Fast, ZIP512, FR, ARC, HS, IrP	EDR, Fast, Zip512	NPW, FAST, IDEAL

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	SAGITTAL T2	SAGITTAL STIR	AXIAL MERGE	Pre and Post AXIAL T1	Post SAGITTAL T1 FS	AXIAL T2	CORONAL CUBE STIR FOCUS	SAGITTAL 3D FIESTA	CORONAL T2 IDEAL
TE	80	24	102	42	5.5	15	15	85	60	Min	85
TR	1000	2100	3000	4000	850	500-700	500-700	4000	3000	Def	3000
TI	—	Auto	—	180	—	—	—	—	230	—	—
Flip Angle	—	Auto	Auto	Auto	20	—	—	Auto	—	55	—
ETL	—	8	21	18	4 echo	3	33	27	130	—	14
Bandwidth	—	35	41	83	150-230	20	20	Anterior	100	62.5	62
SAT	—	Anterior	Anterior	Anterior	Anterior	Anterior/Optional Fat post contrast	Anterior/Fat	Yes	—	—	Anterior

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Supported by an educational grant from Bracco Diagnostics Inc.

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

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	SAGITTAL T2	SAGITTAL STIR	AXIAL MERGE	Pre and Post AXIAL T1	Post SAGITTAL T1 FS	AXIAL T2	CORONAL CUBE STIR FOCUS	SAGITTAL 3D FIESTA	CORONAL T2 IDEAL
MATRIX freq	256	320	384	288	288	320	320	320	256	192	288
MATRIX phase	192	256	256	256	256	192	224	224	256	192	192
NEX	1	2	4	3	2	3	3	2	1	1	2
Freq DIR	Unswap	A/P	A/P	A/P	R/L	R/L	A/P	R/L	S/I	S/I	R/L
Accel	2	—	—	2	—	—	—	—	ARC 1.1/1 HS 1.2	—	ARC 2 if available
FC Direction	—	No	Freq	Freq	Slice	Slice	—	Slice	—	—	—

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1 FLAIR	SAGITTAL T2	SAGITTAL STIR	AXIAL MERGE	Pre and Post AXIAL T1	Post SAGITTAL T1 FS	AXIAL T2	CORONAL CUBE STIR FOCUS	SAGITTAL 3D FIESTA	CORONAL T2 IDEAL
FOV	30	22	22	22	18	18	22	22	25	14	26
Phase FOV	1	1	1	1	.8	.8	1	.8	0.9	1	1
Filter	—	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	SCIC	PURE
Slice Thickness	7	3	3	3	4	4	3	4	1.2	1.4	3
Spacing	5	0.3	0.3	0.3	0	Interleaved	1	Interleaved	0	0	1
Number of Slices	7-Ax/SagCor	15	15	15	28-35	28-35	15	30-40	82	60	20
Scan Time	0:25 sec	~3-4 min	~3 min	~4 min	~5 min	~3-4 min	4 min	~4 min	4 min	2:49	~3 min

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