SOFT TISSUE NECK 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Flow Compensation is an option for all sequences • Use pre- and postcontrast T1 when using Flow Compensation • If contrast is used, lesions and cancer staging slices may vary based on indication • Coronal coverage - top of orbits thru manubrium • Axial coverage - tailored to area of interest (nasopharynx/oropharynx/parotids) cover lesions or area of interest
Position	Supine, head first
Coil	Head/Neck coil
Landmark	Chin

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg	Hand Bolus
Saline Flush	10 mL	Hand Bolus
Comments	• No Fat Sat on precontrast • Use Fast DIXON with Strong Fat Sat. Use Interpolation • Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	SAGITTAL T1	Pre AXIAL T1	AXIAL T2 DIXON	AXIAL DWI	CORONAL T2	Post AXIAL VIBE DIXON	Post CORONAL VIBE DIXON	Post SAGITTAL VIBE DIXON
Sequence Name	tse_rr	tse	tse_rs	resolve	tse_rr	fl	fl	fl
Dimension	2D	2D	—	2D	2D	3D	3D	3D
Acceleration Mode	GRAPPA	GRAPPA	GRAPPA	SMS	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	4	4	3	2	4	2	2	2
Acceleration Factor 3D	—	—	—	—	—	1	1	1

ACQUISITION PARAMETERS

Scan Description	SAGITTAL T1	Pre AXIAL T1	AXIAL T2 DIXON	AXIAL DWI	CORONAL T2	Post AXIAL VIBE DIXON	Post CORONAL VIBE DIXON	Post SAGITTAL VIBE DIXON
TR	600.0 ms	550.0 ms	3500.0 ms	4000.0 ms	3200.0 ms	6.0 ms	5.8 ms	5.8 ms
TE	8.40 ms	9.30 ms	83.00 ms	1: 60 ms 2: 99 ms	82.00 ms	1: 2.46 ms 2: 3.69 ms	1: 2.46 ms 2: 3.69 ms	1: 2.46 ms 2: 3.69 ms
Flip Angle	160 deg	160 deg	145 deg	180 deg	160 deg	12 deg	12 deg	12 deg
Turbo Factor	2	3	13	—	16	—	—	—
Bandwidth	330 Hz/Px	302 Hz/Px	558 Hz/Px	679 Hz/Px	260 Hz/Px	720 Hz/Px	800 Hz/Px	780 Hz/Px
EPI Factor	—	—	—	80	—	—	—	—
Fat Saturation	—	—	Strong	Strong	—	—	—	—
Fat-Water Contrast	Standard	Standard	Fast Dixon	Fat Saturation	Standard	Dixon	Dixon	Dixon
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast*	Fast*	Fast*
RF Pulse Type	Normal	Normal	Fast	Normal	Normal	Fast	Fast	Fast
Asymmetric Echo	—	—	Off	—	—	Weak	Weak	Weak

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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	SAGITTAL T1	Pre AXIAL T1	AXIAL T2 DIXON	AXIAL DWI	CORONAL T2	Post AXIAL VIBE DIXON	Post CORONAL VIBE DIXON	Post SAGITTAL VIBE DIXON
Base Resolution	352	352	320	160	320	192	224	256
Phase Resolution	75%	75%	75%	100%	70%	100%	100%	100%
Slice Resolution	—	—	—	—	—	100%	100%	100%
Averages	1	1	2	2, 2	2	1	1	1
Concatenations	2	3	2	1	2	1	1	1
b-value 1	—	—	—	0 s/mm2 800 s/mm2	—	—	—	—
FoV Read	220 mm	180 mm	180 mm	220 mm	180 mm	170 mm	180 mm	220 mm
FoV Phase	100%	100%	100%	100%	122%	100%	123%	100%
Phase Encoding Dir.	P >> A	A >> P	A >> P	A >> P	H >> F	A >> P	H >> F	A >> P
Phase Oversampling	100%	150%	100%	0%	100%	50%	70%	30%
Slice Oversampling	—	—	—	—	—	44%	33%	33%
Slice Partial Fourier	—	—	—	—	—	Off	Off	Off
Phase Partial Fourier	Off	Off	Off	Off	Off	Off	Off	Off
Flow compensation	Read	None	Slice	—	Read	—	—	—

SCANNING RANGE

Scan Description	SAGITTAL T1	Pre AXIAL T1	AXIAL T2 DIXON	AXIAL DWI	CORONAL T2	Post AXIAL VIBE DIXON	Post CORONAL VIBE DIXON	Post SAGITTAL VIBE DIXON
Elliptical Filter	Off	Off	Off	—	Off	Off	Off	Off
Image Filter	Off	Off	Off	—	Off	Off	Off	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Raw Filter	Off	Off	Off	On	Off	Off	Off	Off
Distortion Correction	2D	2D	2D	Off	2D	2D	2D	2D
Distance Factor	25%	25%	25%	25%	33%	20%	20%	20%
Slice Thickness	4.0 mm	4.0 mm	4.0 mm	4.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm
Slices	38 Slices	38 Slices	38 Slices	38 Slices	40 Slices	72 Slices per Slab	54 Slices per Slab	54 Slices per Slab
Acquisition Time	1:33 min	1:44 min	3:25 min	4:29 min	2:16 min	1:18 min	1:22 min	59 sec

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