MRA NECK 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	These sequences are in addition to the Routine Adult Brain protocol
Position	Supine, head first
Coil	20 channel Head/Neck coil or better
Landmark	Glabella

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg	TWIST CORONAL - Inject 1-2 mL contrast Inject remaining contrast – Post CE MRA – 2 measurements
Saline Flush	20 mL	1-1.5 mL/sec
Comments	• Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	MRA Neck 3D TOF	AXIAL T1 Fat Sat Black Blood (When Requested)	Pre CE MRA	CORONAL TWIST Inject 1-2 mL Contrast	Post CE MRA Inject Remaining Contrast 2 Measurements
Sequence Name	fl_r	se	fl	fldyn	fl
Dimension	3D	Off	3D	3D	3D
Acceleration Mode	GRAPPA	—	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	2	—	3	2	3
Acceleration Factor 3D	1	—	1	1	1

ACQUISITION PARAMETERS

Scan Description	MRA Neck 3D TOF	AXIAL T1 Fat Sat Black Blood	Pre CE MRA	CORONAL TWIST	Post CE MRA
TR	26.0 ms	627.0 ms	3.28 ms	2.76 ms	3.28 ms
TE	4.87 ms	17.00 ms	1.26 ms	1.03 ms	1.26 ms
Flip Angle	20 deg	90 deg	25 deg	25 deg	25 deg
Bandwidth	103 Hz/Px	150 Hz/Px	590 Hz/Px	650 Hz/Px	590 Hz/Px
Echo Spacing	13.48 ms	—	—	—	—
Fat-Water Contrast	Standard	Fat Saturation	Standard	Standard	Standard
Fat Saturation	—	Strong	—	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Normal	Normal	Normal	Normal
Asymmetric Echo	Weak	Allowed	Allowed	Strong	Allowed

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MR Gadopiclenol (VUEWAY®) Protocol for Siemens MRI Scanners
Central Nervous System

IMAGING FORUMS, INC.

SCAN PARAMETERS

Scan Description	MRA Neck 3D TOF	AXIAL T1 Fat Sat Black Blood	Pre CE MRA	CORONAL TWIST	Post CE MRA
Base Resolution	320	320	384	256	384
Phase Resolution	65%	80%	82%	85%	82%
Slice Resolution	63%	—	61%	54%	61%
Averages	1	1	1	—	1
Concatenations	8	2	—	—	—
FoV Read	190 mm	230 mm	370 mm	400 mm	370 mm
FoV Phase	75%	50%	81%	75%	81%
Phase Encoding Dir.	A >> P	A >> P	R >> L	R >> L	R >> L
Slice Oversampling	23%	—	13%	20%	13%
Phase Oversampling	30%	80%	0%	0%	0%
Slice Partial Fourier	6/8	—	6/8	6/8	6/8
Phase Partial Fourier	Off	—	Off	6/8	Off
Flow Compensation	Slice/Read	—	—	—	—

SCANNING RANGE

Scan Description	MRA Neck 3D TOF	AXIAL T1 Fat Sat Black Blood	Pre CE MRA	CORONAL TWIST	Post CE MRA
Elliptical Filter	On	On	Off	On	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan
Distortion Correction	2D	2D	2D	2D	2D
Distance Factor	-35%	30%	20%	—	20%
Slice Thickness	1.0 mm	5.0 mm	0.8 mm	1.6 mm	0.8 mm
Slices	26 Slices per Slab	20 Slices	128 Slices per Slab	80 Slices per Slab	128 Slices per Slab
Time to center	—	—	6.0 s	8.8 s	6.0 s
Acquisition Time	6:18 min	4:56 min	24 sec	2:39 min	24 sec

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