MRA NECK 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	The following 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	CORONAL TWIST Inject 1-2 mL contrast Inject remaining contrast CE MRV Post - 2 measurements
Saline Flush	20 mL	1-1.5 mL/sec (CEMRA) / 3-4 mL/sec (DSC Perfusion)
Comments	• Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	AXIAL 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	tse	fl	fldyn	fl
Mode	2D	2D	2D	2D	2D
PAT Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Dimension	3D	2D	3D	3D	3D
Acceleration Factor PE	2	2	3	2	3
Acceleration Factor 3D	1	—	1	2	1

SCAN PARAMETERS

Scan Description	AXIAL 3D TOF	AXIAL T1 Fat Sat Black Blood	Pre CE MRA	TWIST TIMING	Post CE MRA
TR	20.0 ms	746.0 ms	3.34 ms	2.19 ms	3.34 ms
TE	3.16 ms	13 ms	1.23 ms	0.89 ms	1.23 ms
Flip Angle	20 deg	180 deg	25 deg	18 deg	25 deg
Turbo Factor	—	3	—	—	—
Bandwidth	250 Hz/Px	130 Hz/Px	590 Hz/Px	720 Hz/Px	590 Hz/Px
Fat Saturation Mode	—	Strong	—	—	—
Fat Suppression	None	Fat sat.	None	None	None
Water Suppression	None	None	—	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	—	Normal	Normal	Fast	Normal
Asymmetric Echo	Allowed	—	Allowed	Strong	Allowed

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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.

ACQUISITION PARAMETERS

Scan Description	AXIAL 3D TOF	AXIAL T1 Fat Sat Black Blood	Pre CE MRA	TWIST TIMING	Post CE MRA
Base Resolution	384	448	448	288	448
Phase Resolution	65%	50%	82%	75%	82%
Slice Resolution	63%	100%	61%	75%	61%
Averages	1	—	1	—	1
Averaging Mode	Short term	Short term	Short term	—	Short term
Concatenations	8	3	—	—	—
FoV Read	190 mm	250 mm	350 mm	350 mm	350 mm
FoV Phase	100%	78%	81%	75%	81%
Phase Encoding Dir.	A >> P	A >> P	R >> L	R >> L	R >> L
Phase Oversampling	10%	75%	0%	0%	0%
Slice Oversampling	23%	—	13%	13%	13%
Phase Partial Fourier	Off	Off	6/8	6/8	6/8
Slice Partial Fourier	6/8	—	6/8	6/8	6/8
Flow Compensation	Yes	No	—	—	—

SCANNING RANGE

Scan Description	AXIAL 3D TOF	AXIAL T1 Fat Sat Black Blood	Pre CE MRA	TWIST TIMING	Post CE MRA
Elliptical Filter	On	Off	Off	On	Off
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Distortion Corr.(2D)	Distortion Corr.(2D), Prescan Normalize	Distortion Corr.(2D), Elliptical filter	Distortion Corr.(2D), Prescan Normalize
Normalize	Off	Off	Off	Off	Off
Prescan Normalize	On	Off	On	Off	On
Distortion Correction	On	On	On	On	On
Distance Factor	-35%	20%	20%	—	20%
Slice Thickness	1.0 mm	5.0 mm	0.75 mm	1.33 mm	0.75 mm
Slices	26 Slices per Slab	35 Slices	128 Slices per Slab	128 Slices per Slab	128 Slices per Slab
Acquisition Time	6:47 min	2:07 min	23 sec	1:09 min	46 sec

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