MRA HEAD 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Sequences are in addition to Routine Adult Brain protocol • For hyperacute patient, assess for penumbra
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 MRV - 2 measurements
Saline Flush	20 mL	1-1.5 mL/sec
Comments	• For bifurcations. 3D TOF if unable to do Carotid CEMRA or CEMRA is inadequate • Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	3D TOF MRA	Pre CE MRA	CORONAL TWIST Inject 1-2 mL Contrast	Post CE MRA Inject Remaining Contrast 2 Measurements
Primary Sequence	fl_r	fl	fldyn	fl
Sequence Type	Gre	—	—	—
Dimension	3D	3D	3D	3D
Acceleration mode	CS	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	—	2	2	2
Acceleration Factor 3D	—	2	2	2
AutoAlign	Head > Brain	Head > Basis	Head > Basis	Head > Basis

SCAN PARAMETERS

Scan Description	3D TOF MRA	Pre CE MRA	CORONAL TWIST	Post CE MRA
TR	23.4 ms	3.95 ms	2.07 ms	3.95 ms
TE	7.15 ms	1.49 ms	0.87 ms	1.49 ms
Flip Angle	23 deg	25 deg	15 deg	25 deg
Bandwidth	120 Hz/Px	450 Hz/Px	720 Hz/Px	450 Hz/Px
Fat-Water Contrast	Standard	Standard	Standard	Standard
Gradient Mode	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Normal	Fast	Normal
Asymmetric Echo	Weak	Allowed	Strong	Allowed

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.

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

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3D TOF MRA	Pre CE MRA	CORONAL TWIST	Post CE MRA
Base Resolution	320	288	256	288
Phase Resolution	80%	82%	75%	82%
Slice Resolution	50%	70%	75%	70%
Averages	1	1	—	1
Concatenations	6	—	—	—
FoV Read	200 mm	240 mm	300 mm	240 mm
FoV Phase	100%	75%	56%	75%
Phase Encoding Dir.	R >> L	R >> L	R >> L	R >> L
Slice Oversampling	33%	20%	17%	20%
Phase Oversampling	20%	0%	0%	0%
Slice Partial Fourier	Off	Off	7/8	Off
Phase Partial Fourier	Off	7/8	7/8	7/8
Flow Compensation	Slice/Read	—	—	—

SCANNING RANGE

Scan Description	3D TOF MRA	Pre CE MRA	CORONAL TWIST	Post CE MRA
Raw Filter	Off	Off	Off	Off
Elliptical Filter	Off	Off	On	Off
Distortion Correction	2D	2D	2D	2D
Normalize	B1 Filter	Prescan	Off	Prescan
Image Filter	Off	Off	Off	Off
Distance Factor	-31%	20%	—	20%
Slice Thickness	0.6 mm	1.0 mm	1.7 mm	1.0 mm
Slabs	6	1	1	1
Slices per Slab	36	160	96	160
Acquisition Time	4:34 min	27 sec	56 sec	27 sec each

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