MR VENOGRAPHY HEAD 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• The following sequences are in addition to the Routine Adult Brain protocol • MRA may be added for hyperacute stroke
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 (CEMRA) / 3-4mL/sec (DSC Perfusion)
Comments	• For bifurcations. Noncontrast. 3D TOF if unable to do Carotid CE MRA or CE MRA is inadequate • Noncontrast. VENC=15. Alternative to use Coronal plane with longer acquisition but more optimal raw data imaging • Report agent administered and dose • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	SAGITTAL 3D PC Venogram	Pre CE MRV	CORONAL TWIST Inject 1-2 mL Contrast	Post CE MRV Inject Remaining Contrast 2 Measurements
Sequence Name	fi	fl	fldyn	fl
Dimension	3D	3D	3D	3D
Acceleration Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	2	2	2	2
Acceleration Factor 3D	1	2	2	2
AutoAlign	—	Head > Basis	Head > Basis	Head > Basis

ACQUISITION PARAMETERS

Scan Description	SAGITTAL 3D PC Venogram	Pre CE MRV	CORONAL TWIST	Post CE MRV
TR	61.7 ms	3.95 ms	2.38 ms	3.95 ms
TE	10.20 ms	1.49 ms	1.04 ms	1.49 ms
Flip Angle	15 deg	25 deg	15 deg	25 deg
Bandwidth	300 Hz/Px	450 Hz/Px	720 Hz/Px	450 Hz/Px
Fat-Water Contrast	—	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.

SCAN PARAMETERS

Scan Description	SAGITTAL 3D PC Venogram	Pre CE MRV	TWIST CORONAL	Post CE MRV
Base Resolution	256	288	256	288
Phase Resolution	75%	82%	75%	82%
Slice Resolution	50%	70%	75%	70%
Averages	1	1	—	1
Concatenations	1	—	—	—
FoV Read	220 mm	240 mm	300 mm	240 mm
FoV Phase	100%	75%	56%	75%
Phase Encoding Dir.	A >> P	R >> L	R >> L	R >> L
Slice Oversampling	0%	20%	17%	20%
Phase Oversampling	0%	0%	0%	0%
Slice Partial Fourier	—	Off	7/8	Off
Phase Partial Fourier	Off	7/8	7/8	7/8
Flow Compensation	None	—	—	—

SCANNING RANGE

Scan Description	SAGITTAL 3D PC Venogram	Pre CE MRV	TWIST CORONAL	Post CE MRV
Elliptical Filter	On	Off	On	Off
Normalize	Off	Prescan	Off	Prescan
Distortion Correction	2D	2D	2D	2D
Distance Factor	20%	20%	—	20%
Slice Thickness	1.0 mm	1.0 mm	1.7 mm	1.0 mm
Slices per Slab	144	160	96	160
Time to center	—	6.0 s	6.1 s	6.0 s
Acquisition Time	8:01 min	27 sec	1:05 min	27 sec

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