MR VENOGRAPHY HEAD 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• The following sequences are in addition to the Routine Adult Brain protocol • For hyperacute patient, assess for penumbra • 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	CORONAL TWIST Inject 1-2 mL contrast Inject remaining contrast CE MRV Post - 2 measurements
Saline Flush	20 mL	1-1.5 mL/sec
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	pc	fl	fldyn	fl
Mode	2D	2D	2D	2D
PAT Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Dimension	3D	3D	3D	3D
Acceleration Factor PE	2	2	2	2
Acceleration Factor 3D	1	2	2	2
AutoAlign	Head > Brain	Head > Basis	Head > Basis	Head > Basis

SCAN PARAMETERS

Scan Description	SAGITTAL 3D PC Venogram	Pre CE MRV	CORONAL TWIST	Post CE MRV
TR	58.25 ms	3.68 ms	2.20 ms	3.68 ms
TE	9.89 ms	1.33 ms	0.91 ms	1.33 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 Suppression	—	None	None	None
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.

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	SAGITTAL 3D PC Venogram	Pre CE MRV	CORONAL TWIST	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
Averaging Mode	Short term	Short term	—	Short term
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
Phase Oversampling	10%	0%	0%	0%
Slice Oversampling	0%	20%	17%	20%
Phase Partial Fourier	—	7/8	7/8	7/8
Slice Partial Fourier	Off	Off	Off	Off
Flow Compensation	No	—	—	—

SCANNING RANGE

Scan Description	SAGITTAL 3D PC Venogram	Pre CE MRV	CORONAL TWIST	Post CE MRV
Elliptical Filter	On	Off	On	Off
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter	Distortion Corr.(2D), Prescan Normalize	Distortion Corr.(2D), Elliptical filter	Distortion Corr.(2D), Prescan Normalize
Normalize	Off	Off	Off	Off
Prescan Normalize	On	On	Off	On
Slice Thickness	1.0 mm	1.0 mm	1.7 mm	1.0 mm
Distance Factor	20%	20%	—	20%
Distortion Correction	On	On	On	On
Slices	144 Slices per Slab	160 Slices per Slab	96 Slices per Slab	160 Slices per Slab
Acquisition Time	8:16 min	25 sec	1:05 min	49 sec

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.

Supported by an educational grant from Bracco Diagnostics Inc.