BRAIN ANEURYSM 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Exam is tailored to the patient's condition and is meant for rapid assessment at lower resolution • May stop scan whenever adequate clinical information is obtained • Contrast only needed if MRA or dynamic susceptibility contrast (DSC) MR perfusion also obtained
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	For DSC - Power Injector 3-4 mL/sec
Comments	• For DSC - Inject after 5-6 phases • 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	Pre HEAD SPACE 3D VWI	CORONAL TWIST	Post CE MRA	Post HEAD SPACE 3D VWI
Sequence Name	fl_r	fl	spcR	fldyn	fl	spcR
Dimension	3D	3D	3D	3D	3D	3D
Acceleration Mode	CS	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	—	2	2	2	2	2
Acceleration Factor 3D	—	2	1	2	2	1
AutoAlign	Head > Brain	Head > Basis	Head > Brain	Head > Basis	Head > Basis	Head > Brain

SCAN PARAMETERS

Scan Description	3D TOF MRA	Pre CE MRA	Pre HEAD SPACE 3D VWI	CORONAL TWIST	Post CE MRA	Post HEAD SPACE 3D VWI
TR	21.0 ms	3.72 ms	700.0 ms	2.20 ms	3.72 ms	700.0 ms
TE	3.69 ms	1.33 ms	19.00 ms	0.91 ms	1.33 ms	19.00 ms
Flip Angle	20 deg	25 deg	—	15 deg	25 deg	—
Turbo Factor	—	—	38	—	—	38
Bandwidth	187 Hz/Px	450 Hz/Px	630 Hz/Px	720 Hz/Px	450 Hz/Px	630 Hz/Px
Fat-Water Contrast	Standard	Standard	Standard	Standard	Standard	Standard
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Normal	Normal	Fast	Normal	Normal
Asymmetric Echo	Weak	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	3D TOF MRA	Pre CE MRA	Pre HEAD SPACE 3D VWI	CORONAL TWIST	Post CE MRA	Post HEAD SPACE 3D VWI
Base Resolution	352	288	256	256	288	256
Phase Resolution	95%	82%	90%	75%	82%	90%
Slice Resolution	67%	70%	90%	75%	70%	90%
Averages	1	1	1	—	1	1
Concatenations	6	—	1	—	—	1
FoV Read	220 mm	240 mm	230 mm	300 mm	240 mm	230 mm
FoV Phase	91%	75%	100%	56%	75%	100%
Phase Encoding Dir.	R >> L	R >> L	A >> P	R >> L	R >> L	A >> P
Phase Oversampling	0	0%	10%	%	0%	10%
Slice Oversampling	25%	20%	23%	17%	20%	23%
Slice Partial Fourier	Off	Off	Off	Off	Off	Off
Flow Compensation	Slice/Read	—	None	—	—	None

SCANNING RANGE

Scan Description	3D TOF MRA	Pre CE MRA	Pre HEAD SPACE 3D VWI	CORONAL TWIST	Post CE MRA	Post HEAD SPACE 3D VWI
Elliptical Filter	Off	Off	Off	On	Off	Off
Normalize	Prescan	Prescan	Prescan	Off	Prescan	Prescan
Distortion Correction	2D	2D	2D	2D	2D	2D
Slice Thickness	0.4 mm	1.0 mm	0.8 mm	1.7 mm	1.0 mm	0.8 mm
Distance Factor	-21%	20%	—	—	20%	—
Slices	48 Slices per Slab	160 Slices per Slab	208 Slices per Slab	96 Slices per Slab	160 Slices per Slab	208 Slices per Slab
Acquisition Time	4:31 min	25 sec	7:58 min	1:05 min	25 sec	7:58 min

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