HYPERACUTE STROKE BRAIN 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• This exam is tailored to the patient's condition and is meant for rapid assessment at lower resolution • If perfusion-weighted MRI (PWI) or MRA Coronal is performed, a Power Injector should be used to administer contrast agent (split dose 1/3 MRA, 2/3 PWI) • Contrast sequences provide superior resolution and image quality for MRA in the neck
Position	Supine, head first
Coil	GEM HNU or NVPA
Landmark	Glabella/Nasion

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.1 mmol/kg up to a calculated volume of 15 mL	Inject @ 4 mL/sec	Perfusion (DSC PWI) - Start scan and inject contrast after 12 sec of scanning
Saline Flush	20-30 mL	4 mL/sec	—
Comments	• Report agent administered and dose • Recon e3DPCA phase=vascular, magnitude=T1 all 3 planes 3 mm		

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER	AXIAL DWI	Alternate DWI if HyperBand and Synthetic b val available AXIAL DWI-HB	SAGITTAL 3D T1 CUBE	FAST MRA AXIAL COW 2SLABS	AXIAL DSC PWI	Post SAGITTAL e3DPCA	Post AXIAL 2D PseudoSWAN	Post AXIAL T2 2D SSFSE	Post AXIAL T2 FLAIR	Post CORONAL T1 CUBE FAST
Primary Sequence	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mode	2D	2D	2D	3D	3D	2D	3D	2D	2D	2D	3D
Pulse Sequence	SSFSE	SE-EPI	DWI-EPI epi2altoff	CUBE	Vasc TOF SPGR	GRE EPI	Inh-Velocity	SSFSE	SSFSE	FLAIR	CUBE
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	EPI, DIFF, ASSET	EDR, CLA, ARC, HB	EDR, ZIP2, ZIP512, FR, ARC, HS	FC, EDR, ARC, HS, ZIP2	ASSET, EPI, MPH	ZIP2, ASSET, ZIP512	EPI, ASSET	EDR, TRF, FAST, ARC, SS	EDR, TRF, FAST, ZIP512, ARC	EDR, FAST, FR, ARC, HS

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	AXIAL DWI	Alternate DWI if HyperBand and Synthetic b val available AXIAL DWI-HB	SAGITTAL 3D T1 CUBE	FAST MRA AXIAL COW 2SLABS	AXIAL DSC PWI	Post SAGITTAL e3DPCA	Post AXIAL 2D PseudoSWAN	Post AXIAL T2 2D SSFSE	Post AXIAL T2 FLAIR	Post CORONAL T1 CUBE FAST
TE	80	Min	Min	Min	Out-of-Phase	30	Min	35	Min	95	24
TR	1000	9000	5000	550	20	1500	Min	2000	Min	8000	550
TI	—	—	—	—	—	—	—	—	—	Auto (2352)	—
Flip Angle	—	—	—	Auto	15	30	8	60	—	—	—
ETL	—	—	Shots=1	20	—	—	—	Shots=1	—	23	24
Bandwidth	83	125	—	62	41.67	Default	31	—	31	50	62.5
Sat	—	—	Fat	R/L	S, Fat	—	—	—	S/I	Fat	Fat

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 GE HealthCare Systems
Central Nervous System

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	AXIAL DWI	Alternate DWI if HyperBand and Synthetic b val available AXIAL DWI-HB	SAGITTAL 3D T1 CUBE	FAST MRA AXIAL COW 2SLABS	AXIAL DSC PWI	Post SAGITTAL e3DPCA	Post AXIAL 2D PseudoSWAN	Post AXIAL T2 2D SSFSE	Post AXIAL T2 FLAIR	Post CORONAL T1 CUBE FAST
MATRIX freq	256	128	128	192	320	96	256	320	256	256	288
MATRIX phase	192	128	128	192	192	96	192	224	192	160	224
NEX	1	1	1	0.5	1	1	1	1	1	1	1
Phase FOV	1	1	Full	—	0.85	1	0.9	1	1	1	0.7
Freq Direction	Unswap	R/L	R/L	S/I	R/L	R/L	S/I	A/P	—	A/P	S/I
Image Enhance	—	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
User CV	—	DIFF Dir-All #T2 images 1 Nex 1 for T2 B1000/1 Nex OPT TE On Dual SE On ACC=2 Ramp Samp 1 Recon 1 Grad OPT 1	b-value 1000 Nex 1 #Directions=ALL #T2 Images 1 Nex for T2 1 SYNTH B=2500 HB=2 ACC=3 Ramp Samp 1	ACC=3 HS=1 CUBE Enh=3	ACC 1.5 HS 1.3 Vascular tab: #of Collapse On #of Proj 19 Ramp Pulse I-S	1 Shot 48 ph/loc Inter Delay Min ACC=2 Ramp Samp On Phase Correct On	3D Correction Proj 19 Collapse On Recon Comp Dif. Flow Anyl Off Venc 40 Acq Fl All Magnitude ACC=3 pfkr 80%	ACC=2	ACC=2	—	ACC 2/2 HS 1.3

SCANNING RANGE

Scan Description	3PL LOCALIZER	AXIAL DWI	Alternate DWI if HyperBand and Synthetic b val available AXIAL DWI-HB	SAGITTAL 3D T1 CUBE	FAST MRA AXIAL COW 2SLABS	AXIAL DSC PWI	Post SAGITTAL e3DPCA	Post AXIAL 2D PseudoSWAN	Post AXIAL T2 2D SSFSE	Post AXIAL T2 FLAIR	Post CORONAL T1 CUBE FAST
FOV	30	22	24	22	22	22	30	24	22	22	24
Slice Thickness	7	5	5	6	1.6	6	1.8	3	4	5	1.4
Spacing	5	1	0.5	—	0	1	—	1	0	1	0
Number of Slices	7-Ax/Sag/Cor	24-26	28	30	32 (per slab)	16	112	34	24-26	24-26	170
Scan Time	0:18 sec	0:50 sec	:25	1 min	2:00	1:12 min	2:30 min	0:23 sec	0:30 sec	1:20 min	1:46

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