LOWER EXTREMITY CONTRAST-ENHANCED MR VENOGRAPHY (CE MRV) 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Coil to cover mid-foot to diaphragm • If using 32 channel Torso Coil coverage to bifurcation - then Body Coil to diaphragm
Common Indication	Deep vein thrombosis (DVT)
Position	Supine
Coil	32 channel Torso, GEMS Peripheral Array with Body Array or Air Coil
Landmark	Lower Calf

CONTRAST AGENT PARAMETERS

Contrast Agents	Dose	Injection Rate	Dose Timing Method & Scan Delay
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	Hand injection intravascular agent	Prior to imaging
Saline Flush	20 mL	Hand injection	Immediately following gadolinium
Comments	—		

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER x3 Abdomen, Pelvis, Thighs, Lower Legs	Postcontrast AXIAL +C T1 FSPGR Foot - Calf	AXIAL +C T1 FSPGR Calf	AXIAL +C T1 FSPGR Calf - Knee	AXIAL +C T1 FSPGR Thigh	AXIAL +C T1 FSPGR Pelvis	AXIAL +C T1 FSPGR Abdomen - Diaphragm	Alternate 3D Protocol: AXIAL T1 3D LAVA-Flex x5 Toes to Abdomen
Mode	2D	2D	2D	2D	2D	2D	2D	3D
Pulse Sequence	SSFSE	FAST SPGR	FAST SPGR	FAST SPGR	FAST SPGR	FAST SPGR	FAST SPGR	LAVA
Imaging Options	SEQ, EDR, FAST, SS, ARC	Auto: PV, ZIP512, FAST	Auto: PV, ZIP512, FAST	Auto: PV, ZIP512, FAST	Auto: PV, ZIP512, FAST	Auto: 48, ZIP512, FAST	Auto: 48, ZIP512, FAST	EDR, FAST, ARC, FLEX

SCAN PARAMETERS

Scan Description	3PL LOCALIZER x3 Abdomen, Pelvis, Thighs, Lower Legs	Postcontrast AXIAL +C T1 FSPGR Foot - Calf	AXIAL +C T1 FSPGR Calf	AXIAL +C T1 FSPGR Calf - Knee	AXIAL +C T1 FSPGR Thigh	AXIAL +C T1 FSPGR Pelvis	AXIAL +C T1 FSPGR Abdomen - Diaphragm	Alternate 3D Protocol: AXIAL T1 3D LAVA-Flex x5 Toes to Abdomen
TE	80	Min	Min	Min	Min	Min	Min	Min
TR	Min	110	110	110	110	110	110	Def
Flip Angle	—	70	70	70	70	70	70	12
Bandwidth	83	41	41	41	41	41	41	100
SAT	—	Fat Sat	Fat Sat	Fat Sat	Fat Sat	Fat Sat	Fat Sat	BH Abdomen/Pelvis ARC 2/2 Lower Extremity ARC 2/1

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
MR Angiography

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER x3 Abdomen, Pelvis, Thighs, Lower Legs	Postcontrast AXIAL +C T1 FSPGR Foot - Calf	AXIAL +C T1 FSPGR Calf	AXIAL +C T1 FSPGR Calf - Knee	AXIAL +C T1 FSPGR Thigh	AXIAL +C T1 FSPGR Pelvis	AXIAL +C T1 FSPGR Abdomen - Diaphragm	Alternate 3D Protocol: AXIAL T1 3D LAVA-Flex x5 Toes to Abdomen
MATRIX freq	384	320	320	320	320	320	320	300
MATRIX phase	160	224	224	224	224	224	224	300
NEX	Def	2	2	2	1	1	1	1
Phase FOV	1	0.7	0.7	0.7	0.7	0.9	0.9	—
Freq Direction	Unswapped	R/L	R/L	R/L	R/L	R/L	R/L	R/L
Accel	Ph 2	—	—	—	—	—	—	PURE
Adv CV	0, 240, 0	—	—	—	—	—	—	CV6 1 CV30 1 CV34 70

SCANNING RANGE

Scan Description	3PL LOCALIZER x3 Abdomen, Pelvis, Thighs, Lower Legs	Postcontrast AXIAL +C T1 FSPGR Foot - Calf	AXIAL +C T1 FSPGR Calf	AXIAL +C T1 FSPGR Calf - Knee	AXIAL +C T1 FSPGR Thigh	AXIAL +C T1 FSPGR Pelvis	AXIAL +C T1 FSPGR Abdomen - Diaphragm	Alternate 3D Protocol: AXIAL T1 3D LAVA-Flex x5 Toes to Abdomen
FOV	48	30	30	38	38	38	38	42
Slice Thickness	8	4	4	4	4	4	4	1.5 (50% slice resolution)
Spacing	0	0	0	0	0	0	0	0
Number of Slices	21 Slices	39 Slices	39 Slices	41 Slices	33 Slices	PRN	PRN	152
Approx Scan Time	0:26	2:03	2:03	2:03	1:06	20-23 sec per BH	20-23 sec per BH	0:23 or 0:48

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