NW
IMAGING FORUMS, INC.

PULMONARY VEIN MAPPING 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Consider gating if available for aortic root/ascending aorta studies • Respiratory bellows and peripheral gating • Optional: Reformat all Sagittal MRA into Axial and Coronal
Common Indication	Prior to electrophysiology (EP) ablation
Position	Supine
Coil	32 channel Torso, GEMS Body Array, or Air Coil
Landmark	Nipple Line

CONTRAST AGENT PARAMETERS

Contrast Agents	Dose	Injection Rate				
Gadopiclenol (VUEWAY)	0.075 mmol/kg up to a calculated volume of 20 mL	Dilute to 30 mL @ 1.5 mL/sec Fluoro trigger and breath hold patient when contrast enters left atrium				
Saline Flush	50 mL	1.5 mL/sec				
Comments	Breathing	3 Slice Mid Vent or if for Right Vent evaluation, then full stack copy and paste to acquire approx. 2 channel and 4 channel locs	Expiration	Pre during Fluoro trigger Post 1 Expiration	Post 2 LOW FLIP Expiration	Short Axis Double Oblique Left Vent Full Stack

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL Gated CINE	AXIAL SSFP Non-Gated	SAGITTAL 3D MRA ARC	SAGITTAL 3D MRA ARC	OBLIQUE Gated CINE
Mode	2D	2D	2D	3D	3D	2D
Pulse Sequence	SSFSE	SSFP	FIESTA	ceMRA-XV	ceMRA-XV	SSFP
Imaging Options	EDR, SEQ, FAST, SS	Card Gate, SEQ, FAST	SEQ, FAST, ASSET	FAST, EDR, ARC, ZIP2, ZIP512, FluoroTrig	FAST, EDR, ARC, ZIP2, ZIP512	Card Gate, SEQ, FAST

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL Gated CINE	AXIAL SSFP Non-Gated	SAGITTAL 3D MRA ARC	SAGITTAL 3D MRA ARC	OBLIQUE Gated CINE
TE	90	Min	Min-Full	Min	Min	Min
TR	Min	Def (4.6)	Def	Def	Def	Def (4.6)
Flip Angle	—	45	60	28	15	45
Bandwidth	83	125	125	83	62	125

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 SSFSE ARC	AXIAL Gated CINE	AXIAL SSFP Non-Gated	SAGITTAL 3D MRA ARC	SAGITTAL 3D MRA ARC	OBLIQUE Gated CINE
MATRIX freq	288	224	256	256	256	224
MATRIX phase	160	224	192	224	224	224
NEX	Def	1	1	1	1	1
Phase FOV	1	0.8	0.9	0.8	0.8	0.8
Freq Direction	Def	—	R/L	S/I	S/I	—
Accel	Ph 2	—	Ph 2	Ph 2, Sl 2	Ph 2, Sl 2	—
FC Direction	—	ArrRej 0	—	—	—	ArrRej 0
Adv CV	0, 240, 0	Arryth Rej Wn 10 Delay Min VPS 16 # Phases Recon 20	—	Turbo 2 Elip Cent 1 Slice Res 78%	Turbo 2 Elip Cent 1 Slice Res 78%	Arryth Rej Wn 10 Delay Min VPS 16 # Phases Recon 20

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL Gated CINE	AXIAL SSFP Non-Gated	SAGITTAL 3D MRA ARC	SAGITTAL 3D MRA ARC	OBLIQUE Gated CINE
FOV	40	36	34	36	36	36
Slice Thickness	8	7	6	2	2	7
Spacing	0	0	0	0	0	0
Number of Slices	5-8 each Plane	Variable - see comments above	40 Slices	70 Slices/PRN	70 Slices/PRN	15-18
Approx Scan Time	0:46-0:54	± 8-15 sec per BH gating dependent	± 16 sec per BH	± 20 sec per BH	± 20 sec per BH	± 8-15 sec per BH gating dependent

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