PULMONARY VEIN MAPPING 1.5T

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	8-32 channel Body Array, 8 channel Cardiac, GEMS Array
Landmark	Nipple Line

CONTRAST AGENT PARAMETERS

Contrast Agents	Dose	Injection Rate			
Gadopiclenol (VUEWAY)	0.075 mmol/kg up to a calculated volume of 10 mL OK to cap at 20 mL max volume	Dilute to 30 mL @ 1.5 mL/sec			
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	Pre during Fluoro trigger Post 1 Expiration	Post 2 LOW FLIP Expiration	Short Axis Double Oblique Left Vent Full Stack and Long Axis 2, 3, 4 chamber

IMAGING PARAMETERS

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

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE ARC	AXIAL Gated CINE	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	OBLIQUE Gated CINE
TE	90	Min	Min	Min	Min
TR	Min	Def (4.6)	Def	Def	Def (4.6)
Flip Angle	—	45	28	15	45
Bandwidth	83	62	83	62	62

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	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	OBLIQUE Gated CINE
MATRIX freq	288	256	256	256	256
MATRIX phase	160	160	192	192	160
NEX	Def	1	1	1	1
Phase FOV	1	0.8	0.8	0.8	0.8
Freq Direction	Def	—	S/I	S/I	—
Image Enhance	—	PURE	—	—	PURE
Accel	Ph 2	1	Ph 2, Sl 2	Ph 2, Sl 2	1
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	SAGITTAL 3D MRA	SAGITTAL 3D MRA LOW FLIP	OBLIQUE Gated CINE
FOV	40	40	36	36	40
Slice Thickness	8	8	2	2	8
Spacing	0	2	0	0	2
Number of Slices	5-8 each Plane	Variable - see comments above	70 Slices/PRN	70 Slices/PRN	Variable - see comments above
Approx. Scan Time	0:46-0:54	± 8-15 sec per BH gating dependent	± 20 sec per BH	± 20 sec per BH	± 8-15 sec per BH gating dependent

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