MR VENOGRAPHY (MRV) ABDOMEN PELVIS 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Establish clear communication with the patient prior to the procedure regarding breath hold instructions • Position arms close by the side to minimize the required field of view in the right-left direction
Common Indications	May-Thurner syndrome, vein occlusion, stenosis, blockage, vasculitis
Position	Supine, head first
Coil	Body Array Coil (two in tandem if available)
Landmark	Mid-thorax

CONTRAST AGENT PARAMETERS

Contrast Agents	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.05 mmol/kg	1.5 mL/sec	Fluoro trigger to peak arterial opacification of entire aorta
Saline Flush	20 mL	1.5 mL/sec	Immediately following gadolinium
Comments	• Report agent administered and dose • Use minimal dose for patients with a GFR <30 mL/sec		

IMAGING PARAMETERS

Scan Description	AXIAL HASTE	AXIAL TRUFISP	Pre AXIAL VIBE	Post AXIAL VIBE 30 sec	Post AXIAL VIBE 60 sec	Post AXIAL VIBE 90 sec	Post AXIAL VIBE 180 sec
Sequence Name	h	tfi	fl	fl	fl	fl	fl
Dimension	2D	2D	3D	3D	3D	3D	3D
Acceleration mode	GRAPPA	GRAPPA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA
CAIPIRINHA Mode	—	—	Body Tra	Body Tra	Body Tra	Body Tra	Body Tra
Total Factor	—	—	4	4	4	4	4
Acceleration Factor PE	2	2	2	2	2	2	2
Acceleration Factor 3D	—	—	2	2	2	2	2

SCAN PARAMETERS

Scan Description	AXIAL HASTE	AXIAL TRUFISP	Pre AXIAL VIBE	Post AXIAL VIBE 30 sec	Post AXIAL VIBE 60 sec	Post AXIAL VIBE 90 sec	Post AXIAL VIBE 180 sec
TR	1200.0 ms	3.6 ms	4.2 ms	4.2 ms	4.2 ms	4.2 ms	4.2 ms
TE	228.00 ms	1.54 ms	2.01 ms	2.01 ms	2.01 ms	2.01 ms	2.01 ms
Flip Angle	154 deg	81 deg	9 deg	9 deg	9 deg	9 deg	9 deg
Turbo Factor	220	—	—	—	—	—	—
Bandwidth	698 Hz/Px	977 Hz/Px	400 Hz/Px	400 Hz/Px	400 Hz/Px	400 Hz/Px	400 Hz/Px
Fat-Water Contrast	Standard	Standard	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Fast	Normal	Fast	Fast	Fast	Fast	Fast
Asymmetric Echo	—	Allowed	Off	Off	Off	Off	Off

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.

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MR Gadopiclenol (VUEWAY®) Protocol for Siemens MRI Scanners
MR Angiography

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	AXIAL HASTE	AXIAL TRUFISP	Pre AXIAL VIBE	Post AXIAL VIBE 30 sec	Post AXIAL VIBE 60 sec	Post AXIAL VIBE 90 sec	Post AXIAL VIBE 180 sec
Base Resolution	256	320	320	320	320	320	320
Phase Resolution	95%	80%	75%	75%	75%	75%	75%
Slice Resolution	—	—	50%	50%	50%	50%	50%
Averages	1	2	1	1	1	1	1
Concatenations	3	—	1	1	1	1	1
FoV Read	400 mm	400 mm	380 mm	380 mm	380 mm	380 mm	380 mm
FoV Phase	91%	100%	81%	81%	81%	81%	81%
Phase Encoding Dir.	A >> P	A >> P	A >> P	A >> P	A >> P	A >> P	A >> P
Phase Oversampling	0%	0%	30%	30%	30%	30%	30%
Slice Oversampling	—	—	33%	33%	33%	33%	33%
Phase Partial Fourier	Off	Off	Off	Off	Off	Off	Off
Slice Partial Fourier	—	—	7/8	7/8	7/8	7/8	7/8
Flow Compensation	None	None	—	—	—	—	—

SCANNING RANGE

Scan Description	AXIAL HASTE	AXIAL TRUFISP	Pre AXIAL VIBE	Post AXIAL VIBE 30 sec	Post AXIAL VIBE 60 sec	Post AXIAL VIBE 90 sec	Post AXIAL VIBE 180 sec
Raw Filter	Off	Off	Off	Off	Off	Off	Off
Elliptical Filter	Off	Off	Off	Off	Off	Off	Off
Distortion Correction	2D	2D	2D	2D	2D	2D	2D
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Image Filter	Off	Off	Off	Off	Off	Off	Off
Distance Factor	20%	20%	20%	20%	20%	20%	20%
Slice Thickness	6.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm
Slices	38 Slices	37 Slices	72 Slices per Slab	72 Slices per Slab	72 Slices per Slab	72 Slices per Slab	72 Slices per Slab
Time of Acquisition	47 sec	52 sec	15 sec	15 sec	15 sec	15 sec	15 sec

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