IMAGING FORUMS, INC.

RENAL MASS 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• No special instructions for patient • Cover kidneys and adrenals • Breath hold in inspiration. Rectangularize field of view so that arms and body wall wrap to lateral aspect of kidneys but no further
Common Indications	Characterization or follow up of renal mass, patients with malignancy, infection
Position	Head first or feet first
Coil	Phase Array Torso, Spine Array (posterior)
Landmark	Xyphoid

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.05 mmol/kg	2 mL/sec	Power Injector preferred, CareBolus
Saline Flush	50 mL	2 mL/sec	Flush with 50 cc saline
Comments	• Report agent administered and dose • Use minimal dose for patients with a GFR <30 mL/sec		

IMAGING PARAMETERS

Scan Description	HASTE LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL T2 HASTE Fat Sat	AXIAL 3D In-Out-of-Phase	AXIAL DWI	CORONAL Urogram Pre	CORONAL T1 VIBE Pre	AXIAL VIBE Pre	AXIAL VIBE Post-3M CAIPI 30 sec 60 sec 3 min	AXIAL VIBE Post Liver	CORONAL T1 VIBE Post 3 min 5 min	CORONAL Urogram Post
Sequence Name	h	h	h	h	fl	epse	fl	fl	fl	fl	fl	fl	fl
Dimension	2D	2D	2D	2D	3D	—	3D	3D	3D	3D	3D	3D	3D
Acceleration mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	CAIPIRINHA	SMS	GRAPPA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	GRAPPA
Acceleration Factor PE	2	2	2	2	2	2	2	2	2	2	2	2	2
Acceleration Factor 3D	—	—	—	—	2	—	1	2	2	2	2	2	1

SCAN PARAMETERS

Scan Description	HASTE LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL T2 HASTE Fat Sat	AXIAL 3D In-Out-of-Phase	AXIAL DWI	CORONAL Urogram Pre	CORONAL T1 VIBE Pre	AXIAL VIBE Pre	AXIAL VIBE Post-3M CAIPI 30 sec 60 sec 3 min	AXIAL VIBE Post Liver	CORONAL T1 VIBE Post 3 min 5 min	CORONAL Urogram Post
TR	1100 ms	1300 ms	1300 ms	1300 ms	4.6 ms	3000 ms	3.5 ms	4.6 ms	4.2 ms	4.2 ms	3.2 ms	4.6 ms	3.5 ms
TE	84 ms	91 ms	91 ms	91 ms	1: 1.23 ms 2: 2.46 ms	60 ms	1.31 ms	2.20 ms	2.01 ms	2.01 ms	1.56 ms	2.20 ms	1.31 ms
Flip Angle	150 deg	180 deg	180 deg	180 deg	9 deg	—	40 deg	10 deg	9 deg	9 deg	10 deg	10 deg	40 deg
Turbo Factor	179	256	198	198	—	—	—	—	—	—	—	—	—
Bandwidth	698 Hz/Px	698 Hz/Px	698 Hz/Px	698 Hz/Px	1200 Hz/Px	2084 Hz/Px	620 Hz/Px	350 Hz/Px	400 Hz/Px	400 Hz/Px	690 Hz/Px	350 Hz/Px	620 Hz/Px
Fat-Water Contrast	Standard	Standard	Standard	SPAIR	Dixon	SPAIR	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	SPAIR	Fast Fat Saturation	Fast Fat Saturation
Fat Saturation	—	—	—	Strong	—	Strong	—	—	—	—	—	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Fast	Fast	Fast	Fast	Low SAR	Fast	Fast	Fast	Fast	Fast	Fast	Fast
Asymmetric Echo	—	—	—	—	Off	—	Weak	Off	Off	Off	Off	Off	Weak

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 Siemens MRI Scanners
Body MR Imaging

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	HASTE LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL T2 HASTE Fat Sat	AXIAL 3D In-Out-of-Phase	AXIAL DWI	CORONAL Urogram Pre	CORONAL T1 VIBE Pre	AXIAL VIBE Pre	AXIAL VIBE Post-3M CAIPI 30 sec 60 sec 3 min	AXIAL VIBE Post Liver	CORONAL T1 VIBE Post 3 min 5 min	CORONAL Urogram Post
Base Resolution	256	256	256	256	320	160	384	320	320	320	288	320	384
Phase Resolution	70%	100%	95%	95%	75%	100%	75%	75%	75%	75%	75%	75%	75%
Slice Resolution	—	—	—	—	57%	—	56%	50%	50%	50%	50%	50%	56%
Averages	1	1	1	1	1	3, 4	1	1	1	1	1	1	1
Concatenations	1	3	3	2	1	1	1	1	1	1	1	1	1
b-value >=	—	—	—	—	—	0 s/mm2 50 s/mm2 800 s/mm2	—	—	—	—	—	—	—
FoV Read	400 mm	400 mm	340 mm	380 mm	400 mm	380 mm	475 mm	400 mm	380 mm	380 mm	425 mm	400 mm	475 mm
FoV Phase	100%	100%	81%	81%	75%	80%	100%	81%	81%	81%	100%	81%	100%
Phase Encoding Dir.	A >> P	R >> L	A >> P	A >> P	A >> P	A >> P	R >> L	R >> L	A >> P	A >> P	A >> P	R >> L	R >> L
Slice Oversampling	—	—	—	—	36%	—	13%	33%	33%	33%	25%	33%	13%
Phase Partial Fourier	5/8	5/8	5/8	5/8	Off	Off	6/8	Off	Off	Off	6/8	Off	6/8
Slice Partial Fourier	—	—	—	—	7/8	—	6/8	6/8	7/8	7/8	6/8	6/8	6/8
Flow Compensation	None	None	None	None	—	—	—	—	—	—	—	—	—

SCANNING RANGE

Scan Description	HASTE LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL T2 HASTE Fat Sat	AXIAL 3D In-Out-of-Phase	AXIAL DWI	CORONAL Urogram Pre	CORONAL T1 VIBE Pre	AXIAL VIBE Pre	AXIAL VIBE Post-3M CAIPI 30 sec 60 sec 3 min	AXIAL VIBE Post Liver	CORONAL T1 VIBE Post 3 min 5 min	CORONAL Urogram Post
Elliptical Filter	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Distortion Correction	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D
Slice Thickness	6.0 mm	6.0 mm	6.0 mm	6.0 mm	3.0 mm	7.0 mm	1.8 mm	3.0 mm	3.0 mm	3.0 mm	3.5 mm	3.0 mm	1.8 mm
Distance Factor	150%	20%	20%	20%	20%	0%	20%	20%	20%	20%	20%	20%	20%
Slices	9 Slices	30 Slices	30 Slices	30 Slices	88 Slices per Slab	36 Slices	64 Slices per Slab	72 Slices per Slab	72 Slices per Slab	72 Slices per Slab	64 Slices per Slab	72 Slices per Slab	64 Slices per Slab
Time of Acquisition	21 sec	41 sec	41 sec	41 sec	18 sec	1:51 min	21 sec	17 sec	15 sec	15 sec	8 sec	17 sec	21 sec

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.