RENAL MASS 1.5T

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 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, Care Bolus
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 DWI Monopolar	AXIAL 3D IN OUT CAIPI	Pre Urogram	CORONAL VIBE Pre Fat Sat CAIPI	AXIAL T1 VIBE Pre CAIPI	AXIAL T1 VIBE Post CAIPI 25 sec 60 sec 3 min	CORONAL T1 VIBE Post Fat Sat CAIPI BH	Liver VIBE Post CAIPI	Post Urogram	CORONAL T1 VIBE Fat Sat 5 min
Sequence Name	h	h	h	h	epse	fl	fl	fl	fl	fl	fl	fl	fl	fl
Dimension	2D	2D	2D	2D	—	3D	3D	3D	3D	3D	3D	3D	3D	3D
Acceleration Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	CAIPIRINHA	GRAPPA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	GRAPPA	CAIPIRINHA
Acceleration Factor PE	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Acceleration Factor 3D	—	—	—	—	—	2	1	2	2	2	2	2	1	2

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Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for Siemens MRI Scanners
Body MR Imaging

IMAGING FORUMS, INC.

SCAN PARAMETERS

Scan Description	HASTE LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL T2 HASTE Fat Sat	AXIAL FB DWI Monopolar	AXIAL 3D IN OUT CAIPI	Pre Urogram	CORONAL T1 VIBE Pre Fat Sat CAIPI	AXIAL T1 VIBE Pre CAIPI	AXIAL T1 VIBE Post CAIPI 25 sec 60 sec 3 min	CORONAL T1 VIBE Post Fat Sat CAIPI BH	Liver VIBE Post CAIPI	Post Urogram	CORONAL T1 VIBE Fat Sat 5 min
TR	1100.0 ms	900.0 ms	900.0 ms	1300.0 ms	7200.0 ms	6.8 ms	3.36 ms	4.9 ms	4.3 ms	4.3 ms	4.9 ms	4.3 ms	3.36 ms	4.9 ms
TE	85 ms	91 ms	98 ms	98 ms	89 ms	1: 2.39 ms 2: 4.77 ms	1.25 ms	2.41 ms	2.15 ms	2.15 ms	2.41 ms	2.15 ms	1.25 ms	2.41 ms
Flip Angle	150 deg	100 deg	100 deg	100 deg	—	10 deg	25 deg	10 deg	10 deg	10 deg	10 deg	10 deg	25 deg	10 deg
Turbo Factor	179	256	198	198	—	—	—	—	—	—	—	—	—	—
Bandwidth	698 Hz/Px	698 Hz/Px	698 Hz/Px	698 Hz/Px	1370 Hz/Px	510 Hz/Px	500 Hz/Px	350 Hz/Px	400 Hz/Px	400 Hz/Px	350 Hz/Px	400 Hz/Px	500 Hz/Px	350 Hz/Px
Fat-Water Contrast	Standard	Standard	Standard	Fat Saturation	SPAIR	Dixon	Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	Fat Saturation	Fast Fat Saturation
Fat Saturation	—	—	—	Strong	Strong	—	—	—	—	—	—	—	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Fast	Fast	Fast	Normal	Fast	Normal	Fast	Fast	Fast	Fast	Fast	Normal	Fast
Asymmetric Echo	—	—	—	—	—	Strong	Allowed	Off	Off	Off	Off	Off	Allowed	Off

ACQUISITION PARAMETERS

Scan Description	HASTE LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL T2 HASTE Fat Sat	AXIAL FB DWI Monopolar	AXIAL 3D IN OUT CAIPI	Pre Urogram	CORONAL T1 VIBE Pre Fat Sat CAIPI	AXIAL T1 VIBE Pre CAIPI	AXIAL T1 VIBE Post CAIPI 25 sec 60 sec 3 min	CORONAL T1 VIBE Post Fat Sat CAIPI BH	Liver VIBE Post CAIPI	Post Urogram	CORONAL T1 VIBE Fat Sat 5 min
Base Resolution	256	256	256	256	192	288	384	320	288	288	320	288	384	320
Phase Resolution	70%	100%	95%	95%	80%	80%	80%	75%	70%	70%	75%	70%	80%	75%
Slice Resolution	—	—	—	—	—	60%	61%	50%	50%	50%	50%	50%	61%	50%
Averages	1	1	1	1	1, 4	1	1	1	1	1	1	1	1	1
Concatenations	1	3	3	2	1	1	—	1	1	1	1	1	—	1
b-value	—	—	—	—	0 s/mm2 50 s/mm2 800 s/mm2	—	—	—	—	—	—	—	—	—
FoV Read	400 mm	380 mm	380 mm	380 mm	380 mm	380 mm	400 mm	380 mm	380 mm	380 mm	380 mm	380 mm	400 mm	380 mm
FoV Phase	100%	100%	81%	81%	78%	83%	100%	100%	92%	92%	100%	92%	100%	100%
Phase Encoding Dir.	A >> P	R >> L	A >> P	A >> P	A >> P	A >> P	R >> L	R >> L	A >> P	A >> P	R >> L	A >> P	R >> L	R >> L
Phase Oversampling	30%	50%	0%	0%	0%	25%	20%	35%	0%	0%	35%	0%	20%	35%
Slice Oversampling	—	—	—	—	—	33%	13%	33%	56%	56%	33%	56%	13%	33%
Phase Partial Fourier	5/8	5/8	5/8	5/8	7/8	6/8	6/8	Off	Off	Off	Off	Off	6/8	Off
Slice Partial Fourier	—	—	—	—	—	6/8	6/8	6/8	6/8	6/8	6/8	6/8	6/8	6/8
Flow Compensation	None	None	None	None	—	—	—	—	—	—	—	—	—	—

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Body MR Imaging

IMAGING FORUMS, INC.

SCANNING RANGE

Scan Description	HASTE LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL T2 HASTE Fat Sat	AXIAL FB DWI Monopolar	AXIAL 3D IN OUT CAIPI	Pre Urogram	CORONAL T1 VIBE Pre Fat Sat CAIPI	AXIAL T1 VIBE Pre CAIPI	AXIAL T1 VIBE Post CAIPI 25 sec 60 sec 3 min	CORONAL T1 VIBE Post Fat Sat CAIPI BH	Liver VIBE Post CAIPI	Post Urogram	CORONAL T1 VIBE Fat Sat 5 min
Elliptical Filter	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Off	Prescan	Off	Prescan	Prescan	Prescan	Prescan	Prescan	Off	Prescan
Distortion Correction	2D	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	6.0 mm	3.0 mm	1.8 mm	3.0 mm	2.5 mm	2.5 mm	3.0 mm	2.5 mm	1.8 mm	3.0 mm
Distance Factor	150%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Slices	Slices 9	Slices 34	Slices 30	Slices 30	Slices 30	Slices per Slab 72	Slices per Slab 64	Slices per Slab 72	Slices per Slab 72	Slices per Slab 72	Slices per Slab 72	Slices per Slab 72	Slices per Slab 64	Slices per Slab 72
Time of Acquisition	21 sec	45 sec	29 sec	41 sec	2:11 min	16 sec	22 sec	20 sec	13 sec	13 sec each	20 sec	13 sec	22 sec	20 sec

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