NW
IMAGING FORUMS, INC.

RECTAL CANCER 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Have patient empty bladder before scanning • Optional: Patient could take a Fleet enema prior to appointment • NPO for 4 hours prior to study recommended (reduces bowel motion) • Small field of view imaging must be angled to the mass • MD to check for Axial and Coronal Oblique angulations (true to rectal mass)
Common Indication	Rectal cancer staging
Position	Supine; head or feet first
Coil	Body Array (anterior); Spine Array (posterior)
Landmark	Center of coil; below belly button; adjust after LOC using ISO mode imaging

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.05 mmol/kg	2 mL/sec	Refer to postcontrast timing below
Saline Flush	20 mL	2 mL/sec	—
Comments	• Report agent administered and dose • Use minimal dose for patients with a GFR <30 mL/sec		

IMAGING PARAMETERS

Scan Description	3 PLANE HASTE SCOUT	SAGITTAL T2 Hi Res	AXIAL DWI	AXIAL OBLIQUE T2 Hi Res	CORONAL OBLIQUE T2 Hi Res	AXIAL IN OUT	SAGITTAL VIBE Pre	CORONAL VIBE Pre	AXIAL VIBE Pre	AXIAL VIBE Post 25 sec 60 sec 180 sec	SAGITTAL VIBE Post 60 sec	CORONAL VIBE Post 60 sec 180 min
Sequence Name	h	tse	epse	tse	tse	fl	—	fl	fl	fl	—	fl
Dimension	2D	2D	—	2D	2D	3D	—	3D	3D	3D	—	3D
Acceleration Mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	—	GRAPPA	CAIPIRINHA	CAIPIRINHA	—	GRAPPA
Acceleration Factor PE	2	2	2	2	2	2	—	2	2	2	—	2

SCAN PARAMETERS

Scan Description	3 PLANE HASTE SCOUT	SAGITTAL T2 Hi Res	AXIAL DWI	AXIAL OBLIQUE T2 Hi Res	CORONAL OBLIQUE T2 Hi Res	AXIAL IN OUT	SAGITTAL VIBE Pre	CORONAL VIBE Pre	AXIAL VIBE Pre	AXIAL VIBE Post 25 sec 60 sec 180 sec	SAGITTAL VIBE Post 60 sec	CORONAL VIBE Post 60 sec 180 min
TR	1000.0 ms	4440.0 ms	6700.0 ms	3910.0 ms	3910.0 ms	7.0 ms	—	3.7 ms	3.7 ms	3.7 ms	—	3.7 ms
TE	121.0 ms	107.0 ms	76.0 ms	107.0 ms	107.0 ms	1: 2.38 ms 2: 4.76 ms	—	1.88 ms	1.88 ms	1.88 ms	—	1.88 ms
Flip Angle	105 deg	160 deg	—	160 deg	160 deg	10 deg	—	10 deg	10 deg	10 deg	—	10 deg
Turbo Factor	256	23	—	23	23	—	—	—	—	—	—	—
Bandwidth	698 Hz/Px	200 Hz/Px	1358 Hz/Px	200 Hz/Px	200 Hz/Px	490 Hz/Px	—	640 Hz/Px	640 Hz/Px	640 Hz/Px	—	640 Hz/Px
Fat-Water Contrast	Standard	Standard	SPAIR	Standard	Standard	Standard	—	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	—	Fast Fat Saturation
Fat Saturation	—	—	Strong	—	—	—	—	—	—	—	—	—
Gradient Mode	Fast	Normal	Fast	Normal	Normal	Fast	—	Fast	Fast	Fast	—	Fast
RF Pulse Type	Normal	Normal	Normal	Normal	Normal	Fast	—	Fast	Fast	Fast	—	Fast
Asymmetric Echo	—	—	—	—	—	Off	—	Off	Off	Off	—	Off

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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.

ACQUISITION PARAMETERS

Scan Description	3 PLANE HASTE SCOUT	SAGITTAL T2 Hi Res	AXIAL DWI	AXIAL OBLIQUE T2 Hi Res	CORONAL OBLIQUE T2 Hi Res	AXIAL IN OUT	SAGITTAL VIBE Pre	CORONAL VIBE Pre	AXIAL VIBE Pre	AXIAL VIBE Post 25 sec 60 sec 180 sec	SAGITTAL VIBE Post 60 sec	CORONAL VIBE Post 60 sec 180 min
Base Resolution	256	320	160	320	320	320	—	288	288	288	—	288
Phase Resolution	100%	100%	100%	100%	100%	75%	—	75%	75%	75%	—	75%
Slice Resolution	—	—	—	—	—	50%	—	61%	60%	60%	—	61%
Averages	1	3	1, 3	2	3	1	—	1	1	1	—	1
Concatenations	1	2	1	3	2	1	—	1	1	1	—	1
b-value	—	—	0 s/mm2 50 s/mm2 800 s/mm2	—	—	—	—	—	—	—	—	—
FoV Read	380 mm	190 mm	380 mm	190 mm	190 mm	380 mm	—	335 mm	335 mm	335 mm	—	335 mm
FoV Phase	100%	100%	80%	100%	100%	78%	—	100%	81%	81%	—	100%
Phase Encoding Dir.	R >> L	H >> F	A >> P	R >> L	A >> P	A >> P	—	R >> L	A >> P	A >> P	—	R >> L
Phase Oversampling	50%	100%	0%	100%	100%	0%	—	20%	20%	20%	—	20%
Slice Oversampling	—	—	—	—	—	13%	—	0%	33%	33%	—	0%
Phase Partial Fourier	5/8	Off	6/8	Off	Off	7/8	—	6/8	6/8	6/8	—	6/8
Slice Partial Fourier	—	—	—	—	—	6/8	—	6/8	6/8	6/8	—	6/8
Flow Compensation	None	None	—	None	None	—	—	—	—	—	—	—

SCANNING RANGE

Scan Description	3 PLANE HASTE SCOUT	SAGITTAL T2 Hi Res	AXIAL DWI	AXIAL OBLIQUE T2 Hi Res	CORONAL OBLIQUE T2 Hi Res	AXIAL IN OUT	SAGITTAL VIBE Pre	CORONAL VIBE Pre	AXIAL VIBE Pre	AXIAL VIBE Post 25 sec 60 sec 180 sec	SAGITTAL VIBE Post 60 sec	CORONAL VIBE Post 60 sec 180 min
Elliptical Filter	Off	Off	Off	Off	Off	Off	—	Off	Off	Off	—	Off
Normalize	Prescan	Prescan	Off	Prescan	Prescan	Prescan	—	Prescan	Prescan	Prescan	—	Prescan
Raw Filter	Off	Off	Off	Off	Off	Off	—	Off	Off	Off	—	Off
Distortion Correction	2D	2D	2D	2D	2D	2D	—	2D	2D	2D	—	2D
Slice Thickness	6.0 mm	3.0 mm	7.0 mm	3.0 mm	3.0 mm	3.0 mm	—	3.0 mm	3.0 mm	3.0 mm	—	3.0 mm
Distance Factor	150%	0%	20%	0%	0%	20%	—	20%	20%	20%	—	20%
Slices	Slices 13	Slices 34	Slices 32	Slices 45	Slices 30	Slices per Slab 64	—	Slices per Slab 72	Slices per Slab 72	Slices per Slab 72	—	Slices per Slab 72
Time of Acquisition	34 sec	6:23 min	1:42 min	5:42 min	5:38 min	21 sec	—	17 sec	10 sec	10 sec	—	17 sec

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