NW
IMAGING FORUMS, INC.

GENERIC ABDOMEN PELVIS 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Injector timing for abdomen first, then finish pelvis sequences • Perform relevant abdomen breath hold (BH) followed by pelvis in 2 stations
Common Indications	Abdominal/pelvic pain, infection, malignancy
Position	Supine, head or feet first
Coil	Body Array (2 coils, if possible), 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	Use CareBolus (CB) to track contrast to diaphragm; stop CB; perform BH command (~4 sec); start Arterial-phase acquisition
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	LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL In-Out-of-Phase	Pelvis SAGITTAL T2	Pelvis SAGITTAL VIBE Pre	Abdomen CORONAL VIBE Pre	Abdomen Pelvis AXIAL VIBE Pre	Care Bolus	Abdomen Pelvis AXIAL VIBE Post Arterial	Abdomen Pelvis AXIAL VIBE Post 60 sec	Abdomen Pelvis AXIAL VIBE Post 180 sec	Abdomen Pelvis CORONAL VIBE Post 60 sec	Abdomen Pelvis CORONAL VIBE Post 180 sec	SAGITTAL VIBE Post 190 sec	Abdomen Pelvis AXIAL DWI	Abdomen Pelvis AXIAL T2 FS
Sequence Name	h	h	h	fl	tse	fl	fl	fl	fl	tseB	tse	fl	fl	fl	fl	epse	tse
Dimension	2D	2D	2D	2D	2D	3D	3D	3D	2D	2D	2D	3D	3D	3D	3D	—	2D
Acceleration mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	None	GRAPPA	GRAPPA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	CAIPIRINHA	SMS	GRAPPA
Acceleration Factor PE	2	2	2	2	2	2	2	2	—	2	2	2	2	2	2	2	2
Acceleration Factor 3D	—	—	—	—	—	2	2	2	—	—	—	2	2	2	2	—	—

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

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SCAN PARAMETERS

Scan Description	LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL In-Out-of-Phase	Pelvis SAGITTAL T2	Pelvis SAGITTAL VIBE Pre	Abdomen CORONAL VIBE Pre	Abdomen Pelvis AXIAL VIBE Pre	Care Bolus	Abdomen Pelvis AXIAL VIBE Post Arterial	Abdomen Pelvis AXIAL VIBE Post 60 sec	Abdomen Pelvis AXIAL VIBE Post 180 sec	Abdomen Pelvis CORONAL VIBE Post 60 sec	Abdomen Pelvis CORONAL VIBE Post 180 sec	SAGITTAL VIBE Post 190 sec	Abdomen Pelvis AXIAL DWI	Abdomen Pelvis AXIAL T2 FS
TR	1100 ms	1300 ms	1200 ms	228 ms	8350.0 ms	3.3 ms	4.5 ms	3.5 ms	68.77 ms	3000 ms	4320 ms	3.5 ms	4.5 ms	4.5 ms	3.3 ms	3000 ms	2630 ms
TE	84 ms	91 ms	95 ms	1: 1.23 ms 2: 2.46 ms	112.00 ms	1.54 ms	2.17 ms	1.6 ms	1.52 ms	138 ms	83 ms	1.6 ms	2.17 ms	2.17 ms	1.54 ms	60 ms	82 ms
Flip Angle	150 deg	164 deg	159 deg	44 deg	160 deg	10 deg	10 deg	10 deg	30 deg	130 deg	160 deg	10 deg	10 deg	10 deg	10 deg	—	120 deg
Turbo Factor	179	256	198	—	23	—	—	—	—	50	29	—	—	—	—	—	19
Bandwidth	698 Hz/Px	698 Hz/Px	698 Hz/Px	1060 Hz/Px	200 Hz/Px	690 Hz/Px	350 Hz/Px	650 Hz/Px	400 Hz/Px	501 Hz/Px	260 Hz/Px	650 Hz/Px	350 Hz/Px	350 Hz/Px	690 Hz/Px	2084 Hz/Px	195 Hz/Px
Fat-Water Contrast	Standard	Standard	Standard	Standard	Standard	SPAIR	Fast Fat Saturation	Fast Fat Saturation	Standard	SPAIR	SPAIR	Fast Fat Saturation	Fast Fat Saturation	Fast Fat Saturation	SPAIR	SPAIR	SPAIR
Fat Saturation	—	—	—	—	—	—	—	—	—	Strong	Strong	—	—	—	—	Strong	Strong
Gradient Mode	Fast	Fast	Fast	Fast	Normal	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Normal
RF Pulse Type	Normal	Fast	Fast	Optimized	Low SAR	Fast	Fast	Fast	Low SAR	Fast	Normal	Fast	Fast	Fast	Fast	Low SAR	Normal
Asymmetric Echo	—	—	—	Allowed	—	Off	Off	Off	Allowed	—	—	Off	—	Off	Off	—	—

ACQUISITION PARAMETERS

Scan Description	LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL In-Out-of-Phase	Pelvis SAGITTAL T2	Pelvis SAGITTAL VIBE Pre	Abdomen CORONAL VIBE Pre	Abdomen Pelvis AXIAL VIBE Pre	Care Bolus	Abdomen Pelvis AXIAL VIBE Post Arterial	Abdomen Pelvis AXIAL VIBE Post 60 sec	Abdomen Pelvis AXIAL VIBE Post 180 sec	Abdomen Pelvis CORONAL VIBE Post 60 sec	Abdomen Pelvis CORONAL VIBE Post 180 sec	SAGITTAL VIBE Post 190 sec	Abdomen Pelvis AXIAL DWI	Abdomen Pelvis AXIAL T2 FS
Base Resolution	256	256	256	224	320	288	320	320	192	256	320	320	320	320	288	160	256
Phase Resolution	70%	100%	95%	90%	83%	70%	75%	75%	77%	—	70%	75%	75%	75%	70%	100%	69%
Slice Resolution	—	—	—	—	—	50%	50%	60%	—	—	—	60%	50%	50%	50%	—	—
Averages	—	—	—	1	1	1	1	1	1	1	1	1	1	1	1	3	1
Concatenations	1	2	3	1	1	1	1	1	—	5	3	1	1	1	1	1	4
b-value >=	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0 s/mm2 50 s/mm2 800 s/mm2	—
FoV Read	400 mm	370 mm	380 mm	363 mm	200 mm	350 mm	400 mm	380 mm	350 mm	380 mm	380 mm	380 mm	400 mm	400 mm	350 mm	380 mm	350 mm
FoV Phase	100%	100%	81%	80%	100%	92%	100%	91%	100%	100%	81%	91%	100%	100%	92%	80%	75%
Phase Encoding Dir.	A >> P	R >> L	A >> P	A >> P	A >> P	A >> P	R >> L	A >> P	A >> P	A >> P	A >> P	A >> P	R >> L	R >> L	A >> P	A >> P	A >> P
Slice Oversampling	—	—	—	—	—	29%	33%	20%	—	—	—	20%	33%	33%	29%	—	—
Phase Partial Fourier	5/8	5/8	5/8	7/8	Off	6/8	6/8	Off	7/8	—	Off	Off	6/8	6/8	6/8	Off	Allowed
Slice Partial Fourier	—	—	—	—	—	6/8	6/8	6/8	—	—	—	6/8	6/8	6/8	6/8	—	—
Flow Compensation	None	None	None	None	None	—	—	—	—	None	None	—	—	—	—	—	None

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SCANNING RANGE

Scan Description	LOCALIZER	CORONAL T2 HASTE	AXIAL T2 HASTE	AXIAL In-Out-of-Phase	Pelvis SAGITTAL T2	Pelvis SAGITTAL VIBE Pre	Abdomen CORONAL VIBE Pre	Abdomen Pelvis AXIAL VIBE Pre	Care Bolus	Abdomen Pelvis AXIAL VIBE Post Arterial	Abdomen Pelvis AXIAL VIBE Post 60 sec	Abdomen Pelvis AXIAL VIBE Post 180 sec	Abdomen Pelvis CORONAL VIBE Post 60 sec	Abdomen Pelvis CORONAL VIBE Post 180 sec	SAGITTAL VIBE Post 190 sec	Abdomen Pelvis AXIAL DWI	Abdomen Pelvis AXIAL T2 FS
Elliptical Filter	On	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Off	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Distortion Correction	2D	2D	2D	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	4.0 mm	3.0 mm	3.0 mm	3.0 mm	20.0 mm	6.0 mm	6.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	7.0 mm	6.0 mm
Distance Factor	150%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%	20%
Slices	9 Slices	30 Slices	35 Slices	45 Slices	30 Slices	112 Slices per Slab	72 Slices per Slab	80 Slices per Slab	1 Slice	35 Slices	34 Slices	80 Slices per Slab	72 Slices per Slab	72 Slices per Slab	112 Slices per Slab	36 Slices	34 Slices
Time of Acquisition	21 sec	39 sec	44 sec	22 sec	3:30 min	14 sec	15 sec	14 sec	1:16 min	2:09 min	1:05 min	14 sec	15 sec	15 sec	14 sec	1:51 min	1:26 min

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