NW
IMAGING FORUMS, INC.

PROSTATE CANCER 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Have patient evacuate rectum/rectal gas prior to scan if possible • Optional: Patient could take a Fleet enema prior to appointment • NPO for 4 hours prior to study recommended (reduces bowel motion) • Cover prostate and seminal vesicles • Endo-Rectal coil not necessary for this protocol particularly with 3T, scan on 3T if possible
Common Indications	Elevated prostate-specific antigen (PSA), palpable prostate nodule, active surveillance
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	4 mL/sec	Perfusion: Start scan, wait 9 sec, inject contrast
Saline Flush	>20 mL	4 mL/sec	9 sec injection delay
Comments	• Report agent administered and dose • Use minimal dose for patients with a GFR <30 mL/sec		

IMAGING PARAMETERS

Scan Description	3 PLANE HASTE LOCALIZER	SAGITTAL T2	AXIAL T2 TSE	DWI b50 1000 1600 CALC2000	CORONAL T2	AXIAL T1	AXIAL 3D In-Out-of-Phase	AXIAL T1 TWIST TRA DYN Pre	T1 TWIST Perfusion	AXIAL VIBE Post Pelvis
Sequence Name	h	tse	tse	epse	tse	tse	fl	fldyn	fldyn	fl
Dimension	2D	2D	2D	—	2D	2D	3D	3D	3D	3D
Acceleration mode	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	CAIPIRINHA	GRAPPA	GRAPPA	CAIPIRINHA
Acceleration Factor PE	2	2	2	2	2	2	2	2	2	2
Acceleration Factor 3D	—	—	—	—	—	—	2	1	1	2

SCAN PARAMETERS

Scan Description	3 PLANE HASTE LOCALIZER	SAGITTAL T2	AXIAL T2 TSE	DWI b50 1000 1600 CALC2000	CORONAL T2	AXIAL T1	AXIAL 3D In-Out-of-Phase	AXIAL T1 TWIST TRA DYN Pre	T1 TWIST Perfusion	AXIAL VIBE Post Pelvis
TR	1000 ms	4500 ms	5000 ms	9400 ms	7000 ms	600 ms	4.2 ms	4.95 ms	4.95 ms	3.3 ms
TE	117 ms	121 ms	121 ms	54 ms	118 ms	10 ms	1: 1.29 ms 2: 2.51 ms	1.92 ms	1.92 ms	1.60 ms
Flip Angle	105 deg	160 deg	160 deg	—	160 deg	160 deg	9 deg	12 deg	12 deg	10 deg
Turbo Factor	256	27	26	—	25	3	—	—	—	—
Bandwidth	698 Hz/Px	200 Hz/Px	200 Hz/Px	1924 Hz/Px	252 Hz/Px	201 Hz/Px	1040 Hz/Px	260 Hz/Px	260 Hz/Px	650 Hz/Px
Fat-Water Contrast	Standard	Standard	Standard	Fat Saturation	Standard	Standard	Standard	Standard	Standard	Fast Fat Saturation
Fat Saturation	—	—	—	Strong	—	—	—	—	—	—
Gradient Mode	Fast	Fast	Fast	Fast	Fast	Performance	Fast	Fast	Fast	Fast
RF Pulse Type	Normal	Normal	Normal	Normal	Normal	Low SAR	Fast	Normal	Normal	Fast
Asymmetric Echo	—	—	—	—	—	—	Off	Weak	Weak	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.

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 LOCALIZER	SAGITTAL T2	AXIAL T2 TSE	DWI b50 1000 1600 CALC2000	CORONAL T2	AXIAL T1	AXIAL 3D In-Out-of-Phase	AXIAL T1 TWIST TRA DYN Pre	T1 TWIST Perfusion	AXIAL VIBE Post Pelvis
Base Resolution	256	320	320	100	320	256	320	192	192	320
Phase Resolution	100%	80%	100%	100%	80%	75%	75%	80%	80%	75%
Slice Resolution	—	—	—	—	—	—	57%	75%	80%	61%
Averages	1	2	2	1, 4, 5	2	1	1	—	—	1
Concatenations	1	2	2	1	1	3	1	—	—	1
b-value >=	—	—	—	—	—	—	0 s/mm2 50 s/mm2 1000 s/mm2 1600 s/mm2	—	—	—
FoV Read	380 mm	180 mm	180 mm	240 mm	190 mm	180 mm	380 mm	240 mm	240 mm	380 mm
FoV Phase	100%	100%	100%	100%	100%	100%	81%	100%	100%	81%
Phase Encoding Dir.	R >> L	H >> F	R >> L	A >> P	F >> H	R >> L	A >> P	—	—	A >> P
Slice Oversampling	—	—	—	—	—	—	36%	—	33%	27%
Phase Partial Fourier	4/8	Off	Off	Of	Off	Off	Off	Off	Off	Off
Slice Partial Fourier	—	—	—	—	None	None	7/8	Off	Off	6/8
Flow Compensation	None	None	None	—	—	—	—	—	—	—

SCANNING RANGE

Scan Description	3 PLANE HASTE LOCALIZER	SAGITTAL T2	AXIAL T2 TSE	DWI b50 1000 1600 CALC2000	CORONAL T2	AXIAL T1	AXIAL 3D In-Out-of-Phase	AXIAL T1 TWIST TRA DYN Pre	T1 TWIST Perfusion	AXIAL VIBE Post Pelvis
Elliptical Filter	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Normalize	Prescan	Prescan	Prescan	Off	Prescan	Prescan	Prescan	Off	Off	Prescan
Distortion Correction	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D
Slice Thickness	6.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm	3.0 mm
Distance Factor	175%	0%	0%	0%	0%	0%	20%	—	—	20%
Slices	13 Slices	30 Slices	36 Slices	40 Slices	27 Slices	36 Slices	88 Slices per Slab	24 Slices per Slab	24 Slices per Slab	88 Slices per Slab
Time of Acquisition	35 sec	2:53 min	4:32 min	6:46 min	2:29 min	2:06 min	19 sec	30 sec	4:37 min	13 sec

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