NW
IMAGING FORUMS, INC.

PROSTATE 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Small FOV: Pelvic side wall to acetabulum; Oblique axis refers to the prostate • For metal artifacts consider 1.5T, reduced FOV multishot DWI, changing readout direction • Antiperistalsis: Immediately before motion sensitive pulse sequences 0.6-1 mg glucagon IV; or 25-30 min before motion sensitive pulse sequences glucagon 0.6-1 mg IM or anticholinergic medication such as 0.25 mg hyoscyamine sulfate sublingual or hyoscine butylbromide (Buscopan) 20 mg or higher dose IM (currently not available in the US)
Common Indications	Suspected or known prostate cancer
Position	Supine
Coil	32 channel Torso, GEMS Body array, or Air coil
Landmark	Iliac Crest

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	2 mL/sec	Scan Mask, scan will pause, inject and scan at the same time If DISCO not available, use SPGR Mph Optional sequence
Saline Flush	50 mL	2 mL/sec	Immediately following gadolinium

Comments	—	—	—	Consider DWI FOCUS if available	—	Consider DWI FOCUS if available	OPTIONAL: Pelvic Survey 4 cm above bifurcation through symphysis	Pre breath held	Dynamic with <15 sec temp resolution for 2 min+	Postcontrast Pelvis Survey 4 cm above bifurcation through symphysis breath held	Optional: Dynamic SPGR	For radiation planning: consider 3D T2, consider using HyperSense for 3D T2

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	SAGITTAL T2	OBLIQUE AXIAL T2	Optional: OBLIQUE AXIAL DWI	OBLIQUE CORONAL T2	OBLIQUE AXIAL DWI Hi B Val	Optional: AXIAL T2 Fat Sat	AXIAL T1 LAVA-Flex	AXIAL T1 DISCO	AXIAL T1 LAVA-Flex	AXIAL SPGR Special Fat	AXIAL T2 CUBE
Mode	2D	2D	2D	2D	2D	2D	2D	3D	3D	3D	3D	3D
Pulse Sequence	SSFSE	FRFSE-XL	FRFSE-XL	EPI-DIFF	FRFSE-XL	EPI-DIFF	FRFSE-XL	3D LAVA-Flex	3D DISCO	3D LAVA-Flex	3D FAST TOF SPGR	CUBE T2
Imaging Options	EDR, SEQ, ARC, SS, FAST	FC, TRf, FAST, FR	FC, TRf, FAST, FR	EPI, DIFF, ASSET, 1 Shot	FC, NPW, TRf, FAST, FR	EPI, DIFF, ASSET, 1 Shot	FC, TRf, FAST, FR	EDR, ZIP512, ZIP2, ARC, FAST	EDR, ZIP512, ZIP2, ARC, Mph, FAST	EDR, ZIP512, ZIP2, ARC, FAST	ZIP512,ZIP2, FAST	EDR, FAST, FR, ZIP512, ZIP2, ARC

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	SAGITTAL T2	OBLIQUE AXIAL T2	Optional: OBLIQUE AXIAL DWI	OBLIQUE CORONAL T2	OBLIQUE AXIAL DWI Hi B Val	Optional: AXIAL T2 Fat Sat	AXIAL T1 LAVA-Flex	AXIAL T1 DISCO	AXIAL T1 LAVA-Flex	AXIAL SPGR Special Fat	AXIAL T2 CUBE
TE	90	125	125	Min	125	Min	90	Min	Min	Min	Min Full	90
TR	Min	3400	3500	6000	3500	6000	3500	Def	Def	Def	Def	2500
Flip Angle	—	—	—	—	—	—	—	15	15	15	12	—
ETL	—	23	23	—	23	—	21	—	—	—	InvPrep TI Auto	120
Bandwidth	83	62	62	—	62	—	41	143	143	143	62	62
SAT	—	—	—	—	—	—	Fat Sat	—	—	—	Special Fat Sat	—

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 GE HealthCare Systems
Body MR Imaging

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	SAGITTAL T2	OBLIQUE AXIAL T2	Optional: OBLIQUE AXIAL DWI	OBLIQUE CORONAL T2	OBLIQUE AXIAL DWI Hi B Val	Optional: AXIAL T2 Fat Sat	AXIAL T1 LAVA-Flex	AXIAL T1 DISCO	AXIAL T1 LAVA-Flex	AXIAL SPGR Special Fat	AXIAL T2 CUBE
MATRIX freq	288	320	320	192	320	192	320	256	224	264	256	256
MATRIX phase	192	224	256	192	224	192	192	224	200	224	160	256
NEX	1	2	2	—	2	—	2	1	1	1	1	1
Phase FOV	1	0.9	0.9	1	1	1	0.8	1	1	1	0.8	1
Freq Direction	—	S/I	R/L	R/L	S/I	R/L	R/L	R/L	R/L	R/L	R/L	R/L
Accel	Ph 2	—	—	—	—	—	—	Ph 2, Sl 2	Ph 1.5, Sl 1.5	Ph 2, Sl 2	—	Ph 2, Sl 2
User CV	1, 240, 1	—	—	Ramp samp 1 Flair Inv 0 Grad opt 1	—	Ramp samp 1 Flair Inv 0 Grad opt 1	Fat Sat eff 1	Min ph os 24 Min sls os 24 Turbo ARC 1	Turbo Mode	Min ph os 24 Min sls os 24 Turbo ARC 1	Turbo 2 Centric 1	—
Other	—	—	—	DWI b val 0-50 Nex 6 Diff Dir TETRA b val 500-800 Nex 6 Opt TE On	—	DWI b val 0-50 Nex 6 Diff Dir TETRA b val 1200-1500 Nex 6 Opt TE On	—	—	25 Phases	—	9 Phases Delay Min Auto Subtract (1 Ph) Collapse off Proj 0	—

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE	SAGITTAL T2	OBLIQUE AXIAL T2	Optional: OBLIQUE AXIAL DWI	OBLIQUE CORONAL T2	OBLIQUE AXIAL DWI Hi B Val	Optional: AXIAL T2 Fat Sat	AXIAL T1 LAVA-Flex	AXIAL T1 DISCO	AXIAL T1 LAVA-Flex	AXIAL SPGR Special Fat	AXIAL T2 CUBE
FOV	48	26 x 21	26 x 21	30	26 x 26	30	34 x 27	26 x 26	26 x 26	38 x 38	28 x 22	26
Slice Thickness	8	2.4	2.4	4	2.4	4	5	2.6	2.6	3.6	3	1.8
Spacing	0	0.2	0.2	0.5	0.2	0.5	0	0	0	0	0	0
Number of Slices	25	PRN	PRN	30 Slices	PRN	30 Slices	PRN	30 Locs PRN	30 Locs PRN	100 Locs PRN	38 Locs	—
Approx. Scan Time	0:34	4:00 ±	4:00 ±	4:00 ±	4:00 ±	4:00 ±	4:00 ±	0:23 ±	3:30	0:23 ±	4:00	5:00 ±

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