RECTAL CANCER 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Consider Fleet's enema to clear rectum • Consider rectal ultrasound (or similar) gel (60 mL administered by Foley) • Antiperistalsis: Immediately before motion sensitive pulse sequences 1 mg glucagon IV; or 25-30 min before motion sensitive pulse sequences 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) • For metal artifacts consider reduced FOV multishot DWI, changing readout direction
Common Indications	Rectal cancer: staging treatment response, recurrence
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				
Saline Flush	50 mL	2 mL/sec	Immediately following gadolinium				
Comments	Quiet breathing	Quiet breathing	Quiet breathing	Quiet breathing	Oblique through rectum at the level of the tumor TUMOR ONLY	TUMOR ONLY	Optional DYNAMIC

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	SAGITTAL T2 No Fat Sat	AXIAL T2 No Fat Sat	CORONAL T2 No Fat Sat	Short Axis and Long Axis OBLIQUE T2 No Fat Sat	Short Axis DWI ASSET (FOCUS if available)	Optional: Short Axis T1 DISCO
Mode	2D	2D	2D	2D	2D	2D	3D
Pulse Sequence	SSFSE	FRFSE-XL	FRFSE-XL	FRFSE-XL	FRFSE-XL	2D SE	3D DISCO
Imaging Options	EDR, SEQ, ARC SS, FAST	FC, TRf, FAST, FR	FC, TRf, FAST, FR	FC, NPW, TRf, FAST, FR	FC, TRf, NPW FAST, FR	EPI, DIFF, ASSET	EDR, ZIP512, ZIP2, ARC, Mph, FAST

SCAN PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	SAGITTAL T2 No Fat Sat	AXIAL T2 No Fat Sat	CORONAL T2 No Fat Sat	Short Axis and Long Axis OBLIQUE T2 No Fat Sat	Short Axis DWI ASSET (FOCUS if available)	Optional: Short Axis T1 DISCO
TE	90	90	90	90	90	Min	Min
TR	Min	3400	3500	3500	3500	Def	Def
ETL	—	21	21	21	21	—	15
Bandwidth	62	42	42	42	42	—	83

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Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for GE HealthCare Systems
Body MR Imaging

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ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER SSFSE	SAGITTAL T2 No Fat Sat	AXIAL T2 No Fat Sat	CORONAL T2 No Fat Sat	Short Axis and Long Axis OBLIQUE T2 No Fat Sat	Short Axis DWI ASSET (FOCUS if available)	Optional: Short Axis T1 DISCO
MATRIX freq	288	320	320	320	320	192	200
MATRIX phase	160	224	224	224	224	192	160
NEX	1	2	2	2	2	—	1
Phase FOV	1	0.9	0.9	1	1	1	1
Freq Direction	—	S/I	R/L	S/I	R/L	R/L	R/L
Image Enhance	—	—	—	—	—	1 shot	Ph 1.5, Sl 1.5
Accel	Ph 2	—	—	—	—	Ph 2	Turbo Mode
User CV	1, 240, 1	—	—	—	—	User CV: Rmp smp 1 Recon Type 1 Grad opt 1 Enh Prep 1	25 Phases
Other	—	—	—	—	—	DWI b val 50 1 nex b val 1000 4 nex Diff dir All OptTE On Dual SE Off (If FOCUS is available, use with matrix 100x50, .5pFOV 9 nex for b1000)	—

SCANNING RANGE

Scan Description	3PL LOCALIZER SSFSE	SAGITTAL T2 No Fat Sat	AXIAL T2 No Fat Sat	CORONAL T2 No Fat Sat	Short Axis and Long Axis OBLIQUE T2 No Fat Sat	Short Axis DWI ASSET (FOCUS if available)	Optional: Short Axis T1 DISCO
FOV	48	26	26	26	26	32	26 x 26
Slice Thickness	8	2.4	2.4	2.4	2.4	4.8	2.6
Spacing	0	0.2	0.2	0.2	0.2	.2	0
Number of Slices	25	PRN	PRN	PRN	PRN	32 Slices	44 Locs PRN
Approx. Scan Time	0:34	5:00 ±	5:00 ±	5:00 ±	4:00 ±	4:00 ±	3:30

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