PEDIATRIC PERIRECTAL FISTULA 3T

INSTRUCTIONS AND PATIENT PREPARATION

Anatomical Region	Perirectal Fistula
Field Strength	3.0T
Coil	See the Coil Configuration row in the first parameters table below (varies by sequence).
Position & Landmark	Feet first, supine. Landmark: center of the coil in use (typically central to the ROI).
Contrast	Weight-based gadolinium contrast per your institution's protocol, supervising radiologist, and the agent's FDA prescribing information. Postcontrast sequences are marked **+C**.

PATIENT POSITION

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Coil Configuration	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE16chAirAA, GE40chGEMPA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA
Plane	3-PLANE	SAGITTAL	OBLIQUE	OBLIQUE	OBLIQUE	AXIAL	OBLIQUE	OBLIQUE	OBLIQUE	OBLIQUE

IMAGING PARAMETERS

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Imaging Mode	2D	2D	2D	2D	2D	2D	3D	3D	3D	3D
Imaging Options	Seq, EDR, Fast, SS, ARC	FC, TRF, Fast, FR	FC, TRF, Fast, FR	FC, TRF, Fast, FR	FC, EDR, TRF, Fast, FR, ARC	EDR, RT, Asset	EDR, Fast, ZIP512, Flex	EDR, Fast, ZIP512, Flex	EDR, Fast, ZIP512, Flex	EDR, Fast, ZIP512, ARC, Flex
Pulse Sequence	Spin Echo	FSE-XL	FSE-XL	FSE-XL	FSE-XL	DW EPI	LAVA	LAVA	LAVA	LAVA
ARC Phase	2	—	—	—	1.5	—	—	—	—	1.5
Phase	—	—	—	—	—	2	—	—	—	—
ARC Slice	—	—	—	—	—	—	—	—	—	1

IMAGE RECON

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Recon DL Strength	Off	Medium	Medium	Medium	Medium	Medium	—	—	Off	Off
Intensity Correction	NONE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
Intensity Filter	None	None	None	None	None	None	None	None	None	None
Save Original	Off	On	On	On	On	Off	On	On	On	On

SCAN RANGE

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
FOV	46	26	26	26	26	28	30	30	26	30
Slice Thickness	8	2.4	2.4	2.4	2.4	4	1	1	1.3	0.5
Slice Spacing	0	0.2	0.2	0.2	0.2	0.5	—	—	—	—
Overlap Locations	0	0	0	0	0	0	0	0	0	0
No Phase Wrap	1	1	1	1.5	1.5	—	1	1	1.5	1
Number of Slices	—	30	—	—	—	20	1	1	—	1
Slices per Slab	—	—	—	—	—	—	152	152	156	400
Slice Resolution(%)	—	—	—	—	—	—	50	50	50	50
No Slab Wrap	—	—	—	—	—	—	—	—	1.05	1.05

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Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for GE MRI Scanners
Pediatric

IMAGING FORUMS, INC.

ACQUISITION TIMING

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Acq Voxel Size	1.4 X 2.9 X 8.0	0.7 X 1.0 X 2.4	0.7 X 1.0 X 2.4	0.7 X 1.0 X 2.4	0.7 X 1.0 X 2.4	2.9 X 2.9 X 4.0	1.2 X 1.3 X 2.0	1.2 X 1.3 X 2.0	1.1 X 1.2 X 2.6	1.0 X 1.0 X 1.0
Freq	320	384	384	384	384	96	256	256	232	300
Phase	160	256	256	256	256	96	224	224	224	300
Freq DIR	Unswap	S/I	Unswap	Unswap	Unswap	R/L	Unswap	Unswap	Unswap	Unswap
# of Acq. Before Pause	0	0	—	—	—	—	—	—	—	—
Phase FOV	1	0.9	0.9	1	1	1	1	1	1	1
Auto Shim	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Phase Correct	Off	Off	Off	Off	Off	On	Off	Off	Off	Off
RF Drive Mode	Quadrature (CP)	Optimized	Optimized	Optimized	Optimized	Quadrature	Preset	Preset	Preset	Preset
Excitation Mode	Selective	Selective	Selective	Selective	Selective	Selective	Selective	Selective	Selective	Selective
NEX	—	2	2	1	1	—	1	1	1	1
Flow Comp Direction	—	Freq	Freq	Freq	Freq	—	—	—	—	—
Fat Shift DIR	—	Normal (S)	Normal	Normal	Normal	—	—	—	—	—

SCAN TIMING

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
TE	70	103	103	103	103	Minimum	Min Full	Min Full	Minimum	Minimum
Number of Echoes	1	1	1	1	1	1	2	2	2	2
TR	Minimum	4050	4050	4050	4050	—	—	—	—	—
Receiver Bandwidth	83.33	62.5	62.5	62.5	62.5	—	142.86	142.86	166.67	142.86
Flip Angle	—	111	111	111	111	—	15	15	15	15
Echo Train Length	—	23	23	23	23	—	—	—	—	—
Number of Shots	—	—	—	—	—	1	—	—	—	—

CONTRAST

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Contrast Yes/No	No	No	No	No	No	No	No	No	+C	No

OTHERS

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Anatomical Region	Rectum	Rectum	Rectum	Rectum	Rectum	Abdomen	Rectum	Rectum	Rectum	Rectum
3D Geometry Correction	—	—	—	—	—	Off	On	On	On	On

SATURATION

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
SAT Location A	—	Default	Default	Default	Default	—	—	—	—	—
Fat/Water Saturation	—	Fat	Fat	Fat	—	Fat	—	—	—	—
SAT Location P	—	—	—	—	—	P70.0	—	—	—	—

TRACKER

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Tracker Length	—	—	200	200	200	—	—	—	—	—
Tracker Thickness	—	—	20	20	20	—	—	—	—	—

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MR Gadopiclenol (VUEWAY®) Protocol for GE MRI Scanners
Pediatric

IMAGING FORUMS, INC.

DIFFUSION

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Multi b-values	—	—	—	—	—	50.0;400.0;700.0;	—	—	—	—
Optimized TE	—	—	—	—	—	On	—	—	—	—
Multi NEX Values	—	—	—	—	—	2.0;4.0;6.0;	—	—	—	—
Diffusion Directions	—	—	—	—	—	3in1	—	—	—	—
Number of Diffusion Directions	—	—	—	—	—	1	—	—	—	—
Number of T2 Images	—	—	—	—	—	0	—	—	—	—
Dual Spin Echo	—	—	—	—	—	Off	—	—	—	—
# Synthetic b-values	—	—	—	—	—	0	—	—	—	—
Recon All Images	—	—	—	—	—	On	—	—	—	—
Real Time Field Adjustment	—	—	—	—	—	On	—	—	—	—

GATING / TRIGGER

Scan Description	3pl Loc	Sag T2 Fat	Obl Ax T2 Fat	Obl Cor T2 Fat	Obl Cor T2	Ax DWI Pel b50, 400, 700	Obl Ax T1 Pre	Obl Ax T1 70sec	Obl Cor T1 Post	Ax T1 Post 1mm
Resp. Trigger Point	—	—	—	—	—	30	—	—	—	—
Resp. Trigger Window	—	—	—	—	—	30	—	—	—	—
Resp. Inter-Seq Delay	—	—	—	—	—	Minimum	—	—	—	—
Auto Trigger Type	—	—	—	—	—	—	Off	Off	—	—

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