PEDIATRIC ENTEROGRAPHY (MRE) 3T

INSTRUCTIONS AND PATIENT PREPARATION

Anatomical Region	Enterography (MRE)
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	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Coil Configuration	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE40chGEMPA, GE16chTDIAA	GE16chTDIAA, GE40chGEMPA	GE16chTDIAA, GE40chGEMPA
Plane	3-PLANE	CORONAL	CORONAL	CORONAL	CORONAL	CORONAL	AXIAL	AXIAL	AXIAL	AXIAL	AXIAL	AXIAL

IMAGING PARAMETERS

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Imaging Mode	2D	2D	3D	3D	3D	2D	3D	3D	2D	2D	2D	2D
Imaging Options	Seq, EDR, Fast, SS, ARC	Seq, Fast, MPh	EDR, Fast, ARC	EDR, Fast, ARC	EDR, Fast, ARC	EDR, Fast, SS, ARC	EDR, Fast, ARC, Flex	EDR, Fast, ARC, Flex	EDR, Fast, SS, ARC	EDR, Fast, SS, ARC	RT, Asset	RT, Asset
Pulse Sequence	Spin Echo	Fiesta	LAVA	LAVA	LAVA	Spin Echo	LAVA	LAVA	Spin Echo	Spin Echo	DW EPI	DW EPI
ARC Phase	2	—	2	2	2	3	2	2	2	2	—	—
ARC Slice	—	—	1.5	1.5	1.5	—	2	2	—	—	—	—
Phase	—	—	—	—	—	—	—	—	—	—	2	2

IMAGE RECON

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Recon DL Strength	Off	Off	—	—	—	Medium	—	—	Low	Low	Medium	Medium
Intensity Correction	NONE	NONE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
Intensity Filter	None	None	None	None	None	None	None	None	None	None	None	None
Save Original	Off	Off	On	On	On	Off	On	On	On	On	Off	Off

SCAN RANGE

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
FOV	46	32	32	32	32	32	32	32	26	26	26	26
Slice Thickness	5	7	1.1	1.1	1.1	4	1.8	1.8	4	4	4	4
Slice Spacing	5	1	—	—	—	0	—	—	0	0	1	1
Overlap Locations	0	0	0	0	0	0	0	0	0	0	0	0
No Phase Wrap	1	1	1	1	1	1.2	1	1	1	1	—	—
Number of Slices	—	16	1	1	1	—	1	1	—	—	35	35
Slices per Slab	—	—	200	200	200	—	152	152	—	—	—	—
Slice Resolution(%)	—	—	50	50	50	—	50	50	—	—	—	—

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

NW IMAGING FORUMS, INC.

ACQUISITION TIMING

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Acq Voxel Size	1.4 X 2.4 X 5.0	1.3 X 1.7 X 7.0	1.1 X 1.7 X 2.2	1.1 X 1.7 X 2.2	1.1 X 1.7 X 2.2	1.0 X 1.3 X 4.0	1.1 X 1.5 X 3.6	1.1 X 1.5 X 3.6	0.8 X 1.0 X 4.0	0.8 X 1.0 X 4.0	2.7 X 2.7 X 4.0	2.7 X 2.7 X 4.0
Freq	320	256	288	288	288	320	288	288	320	320	96	96
Phase	192	192	192	192	192	256	220	220	256	256	96	96
Freq DIR	Unswap	S/I	S/I	S/I	S/I	S/I	R/L	R/L	R/L	R/L	R/L	R/L
# of Acq. Before Pause	0	0	—	—	—	0	—	—	0	0	—	—
Phase FOV	1	1	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	1	1
Auto Shim	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Phase Correct	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	On	On
RF Drive Mode	Quadrature (CP)	Preset	Preset	Preset	Preset	Preset	Preset	Preset	Preset	Preset	Preset	Preset
Excitation Mode	Selective	Selective	Selective	Selective	Selective	Selective	Selective	Selective	Selective	Selective	Selective	Selective
NEX	—	1	1	1	1	1	1	1	1	1	—	—

SCAN TIMING

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
TE	90	Minimum	—	—	—	90	Minimum	Minimum	90	90	Minimum	Minimum
Number of Echoes	1	1	1	1	1	1	2	2	1	1	1	1
TR	Minimum	—	—	—	—	Minimum	—	—	Minimum	Minimum	—	—
Receiver Bandwidth	83.33	125	111.11	111.11	111.11	83.33	142.86	142.86	83.33	83.33	—	—
Flip Angle	—	50	15	15	15	130	15	15	130	130	—	—
TI	—	—	5	5	5	—	—	—	170	170	—	—
Number of Shots	—	—	—	—	—	—	—	—	—	—	1	1

CONTRAST

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Contrast Yes/No	No	No	+C	+C	+C	No	+C	+C	No	No	No	No

OTHERS

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Anatomical Region	Colon	Colon	Colon	Colon	Colon	Colon	Abdomen	Abdomen	Colon	Colon	Abdomen	Abdomen
3D Geometry Correction	—	—	On	On	On	Off	Off	Off	Off	Off	Off	Off

MULTI-PHASE

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Slice per Location	—	20	—	—	—	—	—	—	—	—	—	—
Phase Acquisition Order	—	Sequential	—	—	—	—	—	—	—	—	—	—
Delay after Acquisition	—	Minimum	—	—	—	—	—	—	—	—	—	—
Seperate Series	—	0	—	—	—	—	—	—	—	—	—	—
Mask Phase	—	Off	—	—	—	—	—	—	—	—	—	—
Mask Pause	—	Off	—	—	—	—	—	—	—	—	—	—

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Pediatric

IMAGING FORUMS, INC.

GATING / TRIGGER

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Pause After Navigator Prescan	—	0	—	—	—	—	—	—	—	—	—	—
Auto Trigger Type	—	—	Off	Off	Off	—	Off	Off	—	—	—	—
Resp. Trigger Point	—	—	—	—	—	—	—	—	—	—	30	30
Resp. Trigger Window	—	—	—	—	—	—	—	—	—	—	30	30
Resp. Inter-Seq Delay	—	—	—	—	—	—	—	—	—	—	Minimum	Minimum

SATURATION

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Fat/Water Saturation	—	—	Fat Special	Fat Special	Fat Special	—	—	—	Fat Special	Fat Special	Fat	Fat

DIFFUSION

Scan Description	3pl Loc	Cor CINE	Cor T1 Pre	Cor T1 40sec Post	Cor T1 2min Post	Cor T2 SSFSE Post	Pel Ax T1 Post	Abd Ax T1 Post	Abd Ax T2 SSFSE Fat	Pel Ax T2 SSFSE	Ax DWI Abd b50, 700	Ax DWI Pel b50, 700
Multi b-values	—	—	—	—	—	—	—	—	—	—	50.0;700.0;	50.0;700.0;
Optimized TE	—	—	—	—	—	—	—	—	—	—	On	On
Multi NEX Values	—	—	—	—	—	—	—	—	—	—	2.0;6.0;	2.0;6.0;
Diffusion Directions	—	—	—	—	—	—	—	—	—	—	3in1	3in1
Number of Diffusion Directions	—	—	—	—	—	—	—	—	—	—	1	1
Number of T2 Images	—	—	—	—	—	—	—	—	—	—	0	0
Dual Spin Echo	—	—	—	—	—	—	—	—	—	—	Off	Off
# Synthetic b-values	—	—	—	—	—	—	—	—	—	—	0	0
Recon All Images	—	—	—	—	—	—	—	—	—	—	On	On
Real Time Field Adjustment	—	—	—	—	—	—	—	—	—	—	On	On

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