PEDIATRIC PERIANAL (SMALLER PATIENTS) 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	Position the patient in supine position with head pointing towards the magnet Position the patient over the spine coil and place the body coil over the pelvis Securely tighten the body coil using straps to prevent respiratory artifacts Give a pillow under the patient's head for extra comfort Sedation vs bundle and feed is the ordering provider's decision
Common Indications	Fistula
Position	Head First Supine
Coil	Body Coil Spine Coil
Landmark	Pubis Symphysis
Patient Population	These protocols are intended for smaller patients and serve as starting points. If a smaller FOV is needed, the parameters are modified accordingly.

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.1 mL/kg	Hand injected	Post-contrast series acquired after gadolinium administration

IMAGING PARAMETERS

Scan Description	localizer	SAG T2 STIR	AX T2 OBLIQUE	AX T2 STIR OBLIQUE	AX DWI OBLIQUE	COR T2 OBLIQUE	COR T2 STIR OBLIQUE	POST AX T1 FS OBLIQUE	POST COR T1 FS OBLIQUE
Sequence Name	fl	tir	tse	tir	resolve	tse	tir	tse	tse
Dimension	2D	2D	2D	2D	2D	2D	2D	2D	2D
Acceleration mode	None	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	—	2	3	2	2	3	2	2	2
Reference Lines PE	—	32	39	32	77	39	38	32	32
Reference Scans	—	Self-calibration	Integrated	Self-calibration	EPI/Separate	Integrated	Integrated	Self-calibration	Self-calibration
Deep Resolve	Off	Off	Off	Off	—	Off	Off	Off	Off

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

IMAGING FORUMS, INC.

SCAN PARAMETERS

Scan Description	localizer	SAG T2 STIR	AX T2 OBLIQUE	AX T2 STIR OBLIQUE	AX DWI OBLIQUE	COR T2 OBLIQUE	COR T2 STIR OBLIQUE	POST AX T1 FS OBLIQUE	POST COR T1 FS OBLIQUE
TR	7.8 ms	4170.0 ms	4400.0 ms	4240.0 ms	6620.0 ms	4400.0 ms	4170.0 ms	751.0 ms	693.0 ms
TE	3.69 ms	51.00 ms	102.00 ms	53.00 ms	TE 1: 58 ms TE 2: 93 ms	106.00 ms	51.00 ms	12.00 ms	12.00 ms
TI	—	230 ms	—	230 ms	—	—	230 ms	—	—
Flip Angle	20 deg	178 deg	160 deg	178 deg	180 deg	160 deg	178 deg	160 deg	160 deg
Bandwidth	320 Hz/Px	182 Hz/Px	200 Hz/Px	182 Hz/Px	963 Hz/Px	200 Hz/Px	182 Hz/Px	170 Hz/Px	170 Hz/Px
Turbo Factor	—	11	25	11	—	25	11	3	3
Echo Spacing	—	10.1 ms	11.4 ms	10.6 ms	0.36 ms	10.6 ms	10.1 ms	11.5 ms	11.5 ms
Echo Trains per Slice	—	16	9	16	—	9	25	45	64
EPI Factor	—	—	—	—	77	—	—	—	—
Readout Segments	—	—	—	—	5	—	—	—	—
Gradient Mode	Normal	Fast	Normal	Fast	Fast	Normal	Fast	Normal	Normal
RF Pulse Type	Normal	Normal	Low SAR	Normal	Normal	Low SAR	Normal	Low SAR	Low SAR
RF Spoiling	On	—	—	—	—	—	—	—	—
Asymmetric Echo	Off	—	—	—	—	—	—	—	—
Flow Compensation	None	None	None	None	—	None	None	None	None
Reduce Motion Sens.	—	On	Off	On	—	Off	On	On	On
Phase Correction	—	Automatic	Automatic	Automatic	—	Automatic	Automatic	Automatic	Automatic

CONTRAST & MAGNETIZATION

Scan Description	localizer	SAG T2 STIR	AX T2 OBLIQUE	AX T2 STIR OBLIQUE	AX DWI OBLIQUE	COR T2 OBLIQUE	COR T2 STIR OBLIQUE	POST AX T1 FS OBLIQUE	POST COR T1 FS OBLIQUE
Fat-Water Contrast	Standard	Standard	Standard	Standard	Fat Saturation	Standard	Standard	Fat Saturation	Fat Saturation
Fat Saturation	—	—	—	—	Strong	—	—	Strong	Strong
Magn. Preparation	None	Slice-sel. IR	None	Slice-sel. IR	None	None	Slice-sel. IR	None	None
MTC	Off	Off	Off	Off	Off	Off	Off	Off	Off
Dark Blood	Off	Off	Off	Off	—	Off	Off	Off	Off
Contrasts	1	1	1	1	2	1	1	1	1
Reconstruction	Magnitude	Magnitude	Magnitude	Magnitude	Magnitude	Magnitude	Magnitude	Magnitude	Magnitude
Wrap-up Magn.	—	None	None	None	—	None	None	None	None

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ACQUISITION PARAMETERS

Scan Description	localizer	SAG T2 STIR	AX T2 OBLIQUE	AX T2 STIR OBLIQUE	AX DWI OBLIQUE	COR T2 OBLIQUE	COR T2 STIR OBLIQUE	POST AX T1 FS OBLIQUE	POST COR T1 FS OBLIQUE
Base Resolution	256	320	352	320	118	352	320	256	256
Phase Resolution	80 %	80 %	85 %	80 %	100 %	85 %	80 %	75 %	75 %
Averages	1	2	2	2	—	2	1	2	2
Concatenations	17	2	3	2	1	3	2	4	4
FoV Read	400 mm	240 mm	220 mm	220 mm	220 mm	240 mm	240 mm	220 mm	220 mm
FoV Phase	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
Phase Encoding Dir.	A >> P	A >> P	R >> L	A >> P	A >> P	R >> L	R >> L	A >> P	R >> L
Phase Oversampling	25 %	30 %	100 %	30 %	30 %	100 %	100 %	40 %	100 %
Phase Partial Fourier	Off	Off	Off	Off	Off	Off	Off	Off	Off
Readout Partial Fourier	—	—	—	—	Off	—	—	—	—
Interpolation	On	Off	On	Off	On	On	Off	On	On
Multi-Slice Mode	Sequential	Interleaved	Interleaved	Interleaved	Interleaved	Interleaved	Interleaved	Interleaved	Interleaved

SCANNING RANGE

Scan Description	localizer	SAG T2 STIR	AX T2 OBLIQUE	AX T2 STIR OBLIQUE	AX DWI OBLIQUE	COR T2 OBLIQUE	COR T2 STIR OBLIQUE	POST AX T1 FS OBLIQUE	POST COR T1 FS OBLIQUE
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
Slices	7 Slices	45 Slices	45 Slices	45 Slices	35 Slices	45 Slices	45 Slices	45 Slices	45 Slices
Distance Factor	100 %	10 %	10 %	10 %	0 %	10 %	10 %	10 %	10 %
Special Saturation	None	None	None	None	None	None	None	Parallel H	None
Raw Filter	Off	Off	Off	Off	Off	Off	Off	Off	Off
Elliptical Filter	On	On	Off	On	—	Off	On	Off	Off
Image Filter	Off	On	On	On	—	On	On	On	On
Distortion Correction	2D	2D	2D	2D	2D	2D	2D	2D	2D
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Noise Masking	—	—	—	—	Off	—	—	—	—
Time of Acquisition	35 sec	4:37 min	4:12 min	4:41 min	6:59 min	4:12 min	3:38 min	4:35 min	5:59 min

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DIFFUSION

Scan Description	localizer	SAG T2 STIR	AX T2 OBLIQUE	AX T2 STIR OBLIQUE	AX DWI OBLIQUE	COR T2 OBLIQUE	COR T2 STIR OBLIQUE	POST AX T1 FS OBLIQUE	POST COR T1 FS OBLIQUE
Diffusion Mode	—	—	—	—	4-Scan Trace	—	—	—	—
Diffusion Scheme	—	—	—	—	Monopolar	—	—	—	—
Diff. Directions	—	—	—	—	4	—	—	—	—
b-value 1	—	—	—	—	50 s/mm²	—	—	—	—
b-value 2	—	—	—	—	800 s/mm²	—	—	—	—
Averages b-value 1	—	—	—	—	1	—	—	—	—
Averages b-value 2	—	—	—	—	2	—	—	—	—
Diff. Weightings	—	—	—	—	2	—	—	—	—
Diff. Weighted Images	—	—	—	—	Off	—	—	—	—
Trace Weighted Images	—	—	—	—	On	—	—	—	—
ADC Maps	—	—	—	—	On	—	—	—	—
Exponential ADC Maps	—	—	—	—	Off	—	—	—	—
FA Maps	—	—	—	—	Off	—	—	—	—
Calculated Image	—	—	—	—	Off	—	—	—	—

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