PEDIATRIC ROUTINE PELVIS (MSK HIPS, 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	Pain Trauma
Position	Head First Supine
Coil	Body Coil Spine Coil
Landmark	Anterior Superior Iliac Spine
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.

IMAGING PARAMETERS

Scan Description	localizer	AX T1 BILAT	AX PD FS BILAT	COR T1 BILAT	COR STIR BILAT	PD SAG FS 2MM DRB
Sequence Name	fl	tse	tseR	tse	tir	tseR
Dimension	2D	2D	2D	2D	2D	2D
Acceleration mode	None	GRAPPA	GRAPPA	GRAPPA	GRAPPA	GRAPPA
Acceleration Factor PE	—	2	2	2	2	2
Reference Lines PE	—	32	32	32	32	32
Reference Scans	—	Self-calibration	Self-calibration	Self-calibration	Self-calibration	TSE/Separate
Deep Resolve	Off	Off	Off	Off	Off	On

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

IMAGING FORUMS, INC.

SCAN PARAMETERS

Scan Description	localizer	AX T1 BILAT	AX PD FS BILAT	COR T1 BILAT	COR STIR BILAT	PD SAG FS 2MM DRB
TR	7.8 ms	753.0 ms	4160.0 ms	646.0 ms	3500.0 ms	3250.0 ms
TE	3.69 ms	9.80 ms	37.00 ms	9.40 ms	50.00 ms	33.00 ms
TI	—	—	—	—	220 ms	—
Flip Angle	20 deg	150 deg	150 deg	150 deg	180 deg	150 deg
Bandwidth	320 Hz/Px	241 Hz/Px	231 Hz/Px	223 Hz/Px	199 Hz/Px	181 Hz/Px
Turbo Factor	—	3	11	3	9	9
Echo Spacing	—	9.80 ms	9.34 ms	9.40 ms	9.94 ms	11.0 ms
Echo Trains per Slice	—	51	12	59	20	21
Gradient Mode	Normal	Normal	Fast	Fast	Fast	Normal
RF Pulse Type	Normal	Normal	Normal	Normal	Normal	Normal
RF Spoiling	On	—	—	—	—	—
Asymmetric Echo	Off	—	—	—	—	—
Flow Compensation	None	None	None	None	None	None
Reduce Motion Sens.	—	On	On	Off	On	Off
Phase Correction	—	Automatic	Automatic	Automatic	Automatic	Automatic

CONTRAST & MAGNETIZATION

Scan Description	localizer	AX T1 BILAT	AX PD FS BILAT	COR T1 BILAT	COR STIR BILAT	PD SAG FS 2MM DRB
Fat-Water Contrast	Standard	Standard	SPAIR	Standard	Standard	Fat Saturation
Fat Saturation	—	—	Weak	—	—	Strong
Magn. Preparation	None	None	None	None	Slice-sel. IR	None
MTC	Off	Off	Off	Off	Off	Off
Dark Blood	Off	Off	Off	Off	Off	Off
Contrasts	1	1	1	1	1	1
Reconstruction	Magnitude	Magnitude	Magnitude	Magnitude	Magnitude	Magnitude
Wrap-up Magn.	—	None	Restore	None	None	Restore

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ACQUISITION PARAMETERS

Scan Description	localizer	AX T1 BILAT	AX PD FS BILAT	COR T1 BILAT	COR STIR BILAT	PD SAG FS 2MM DRB
Base Resolution	256	576	480	448	448	256
Phase Resolution	80 %	70 %	70 %	70 %	70 %	80 %
Averages	1	2	2	2	2	1
Concatenations	17	2	2	2	2	2
FoV Read	400 mm	380 mm	380 mm	380 mm	380 mm	160 mm
FoV Phase	100.0 %	75.0 %	75.8 %	75.0 %	75.0 %	100.0 %
Phase Encoding Dir.	A >> P	A >> P	A >> P	F >> H	F >> H	A >> P
Phase Oversampling	25 %	0 %	0 %	50 %	50 %	80 %
Phase Partial Fourier	Off	Off	Off	Off	Off	Off
Interpolation	On	Off	Off	Off	Off	On
Multi-Slice Mode	Sequential	Interleaved	Interleaved	Interleaved	Interleaved	Interleaved

SCANNING RANGE

Scan Description	localizer	AX T1 BILAT	AX PD FS BILAT	COR T1 BILAT	COR STIR BILAT	PD SAG FS 2MM DRB
Slice Thickness	6.0 mm	5.0 mm	5.0 mm	4.0 mm	4.0 mm	2.0 mm
Slices	7 Slices	40 Slices	40 Slices	36 Slices	36 Slices	50 Slices
Distance Factor	100 %	20 %	20 %	10 %	10 %	10 %
Special Saturation	None	None	None	None	None	None
Raw Filter	Off	Off	Off	Off	Off	Off
Elliptical Filter	On	On	On	On	On	Off
Image Filter	Off	Off	Off	Off	Off	Off
Distortion Correction	2D	2D	2D	2D	2D	2D
Normalize	Prescan	Prescan	Prescan	Prescan	Prescan	Prescan
Time of Acquisition	35 sec	2:37 min	3:30 min	2:35 min	4:49 min	2:40 min

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