Imaging Protocol – CT Pedi T_L Spine GE Revolution 256

PROTOCOL REVIEW 2025 01/dtf
Approval Imaging Council January 2025

CTDI: 0-4yr: ≤ 15mGy 5-16: ≤30mGy

PT Positioning:

- **Both arms should be raised above head for optimal image quality.**
- **If both arms are unable to be raised, this information should be documented in tech notes for the radiologist.**
- **Post myelogram patients must be rolled 360 degrees before scanning; this will help to evenly distribute spinal contrast**

Setup:

- **Supine, AP & Lateral scouts**
- **Scan entire area of interest**

DFOV: Appropriate for patient's body habitus.

PACS SERIES

1. **SCOUT**
2. **ST AX**
3. **BONE AX**
4. **ST CORONAL 2 X 1.5**
5. **ST SAGITTAL 2 X 1.5**
6. **BONE CORONAL 2 X 1.5**
7. **BONE SAGITTAL 2 X 1.5**
8. **DOSE REPORT**

Acquisition Parameters

Scan Type	HELICAL	HELICAL	HELICA L	HELICAL	HELICAL	HELICAL	HELICAL
PT Weight (lbs)	1-16.5	16.5-20.9	20.9-25. 4	25.4-32	32-40.8	40.8-49.6	49.6-69.5
Pitch and Speed (mm/rot)	0.984:1 (140.63 mm/s)	0.984:1 (140.63m m/s)	0.992:1 (283.48 mm/s)	0.992:1 (283.48m m/s)	0.992:1 (283.48m m/s)	0.992:1 (283.48m m/s)	0.992:1 (283.48m m/s)
Detector Coverage	40	40	80	80	80	80	80
Thick	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Speed	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Focal Spot	S	S	S	S	S	S	S
Scan FOV	Pedi body	Pedi body	Sm body	Sm body	Sm body	Sm body	Med body
Smart mA	150	220	150	185	210	235	220
kVp *kv assist*	80	80	100	100	100	100	100

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Scan Type	HELICAL	HELICAL
PT Weight (lbs)	69.5-89.3	89.3-121.3
Pitch and Speed (mm/rot)	0.992:1 (226.79 mm/s)	0.992:1 (226.79mm/s)
Detector Coverage	80	80
Thick	1.25	1.25
Speed	0.35	0.35
Focal Spot	S	S
Scan FOV	Med body	Medi body
Smart mA	240	235
kVp *kv assist*	100	120

Reconstruction Parameters

RECON 1(Bone)	
Algorithm	Bone Plus
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	1.25
Increment	1.25
RECON 2 (Soft Tissue)	
Algorithm	Stnd
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	1.25
Increment	1.25
RECON 3 (Bone Ref)	
Algorithm	Bone Plus
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	0.625
Increment	0.3125
RECON 4 (ST Ref)	
Algorithm	Stnd
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	0.625
Increment	0.3125