

## PEDIATRIC T/L SPINE GE REVOLUTION 256

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 1X1
5. ST SAGITTAL 1X1
6. BONE CORONAL 1X1
7. BONE SAGITTAL 1X1
8. DOSE REPORT

**Acquisition Parameters**

Scan Type	HELICAL	HELICAL	HELICAL	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

## PEDIATRIC T/L SPINE GE REVOLUTION 256

<b>Scan Type</b>	HELICAL	HELICAL
<b>PT Weight (lbs)</b>	69.5-89.3	89.3-121.3
<b>Pitch and Speed (mm/rot)</b>	0.992:1 (226.79 mm/s)	0.992:1 (226.79mm /s)
<b>Detector Coverage</b>	80	80
<b>Thick</b>	2.5	2.5
<b>Speed</b>	0.35	0.35
<b>Focal Spot</b>	S	S
<b>Scan FOV</b>	Med body	Medi body
<b>Smart mA</b>	240	235
<b>kVp *kv assist*</b>	100	120

### Reconstruction Parameters

<b>RECON 1(Bone)</b>	
Algorithm	Bone Plus
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	1.25
Increment	1.25
<b>RECON 2 (Soft Tissue)</b>	
Algorithm	Std
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	1.25
Increment	1.25
<b>RECON 3 (Bone Ref)</b>	
Algorithm	Bone Plus
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	0.625

## PEDIATRIC T/L SPINE GE REVOLUTION 256

Increment	0.3125
<b>RECON 4 (ST Ref)</b>	
Algorithm	Std
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	0.625
Increment	0.3125