

**CTDI: 0-4yr: ≤ 15mGy 5-16: ≤30mGy**

**PT Positioning:**

- If no recent trauma, tilt the patient’s head so that a line connecting the lateral canthus of the eye and the EAC is perpendicular to the CT tabletop.
- Do not flex or extend the neck if there has been trauma or if the patient is in a C-collar.
- Retract shoulders as much as possible.

**Setup: Supine, LAT scout from T3 through the sella**

**DFOV: Appropriate for patient’s body habitus. (ACR states range 9-14cm)**

**Scan Parameters: Start scan just below T1 through the entire cervical spine.**

**PACS SERIES**

1. SCOUT
2. BONE AX
3. ST AX
4. BONE COR 1.25x1.25
5. BONE SAG 1.25x1.25
6. ST COR 1.25x1.25
7. ST SAG 1.25x1.25
8. DOSE REPORT

**Acquisition Parameters**

PT AGE	0-5mo	6-18m	19m-6y	7y-14y	15+
Scan Type	Helical	Helical	Helical	Helical	Helical
Pitch and Speed (mm/rot)	0.984:1 (140.63 mm/s)	0.984:1 (140.63 mm/s)	0.992:1 (226.79 mm/s)	0.992:1 (158.75 mm/s)	0.992:1 (79.38 mm/s)
Detector Coverage	40	40	80	80	80
Thick	1.25	1.25	1.25	1.25	1.25
Speed	0.28	0.28	0.35	0.50	0.50
Noise Index	8.2	8.2	8.2	8.2	8.2
Scan FOV	SM BODY	SM BODY	MED BODY	MED BODY	MED BODY
Smart mA/ODM	10-600	75-500	10-720	10-400	10-275
kVp *kV assist	80	80	100	120*	120

## Reconstruction Parameters

<b>RECON 1(Bone)</b>	
Algorithm	BONE PLUS
ASIR	50%
Recon Type	FULL
Slice Thickness	1.25
Increment	1.25
<b>RECON 2 (Soft Tissue)</b>	
Algorithm	STND
ASIR	50%
Recon Type	Full
Slice Thickness	1.25
Increment	1.25
<b>RECON 3 (ST)</b>	
Algorithm	STND
ASIR	50%
Recon Type	PLUS
Slice Thickness	0.625
Increment	0.3125
<b>RECON 4 (BONE)</b>	
Algorithm	Bone Plus
ASIR	50%
Recon Type	PLUS
Slice Thickness	0.625
Increment	0.3125