

# PEDIATRIC CERVICAL SPINE GE REVOLUTION 256

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

PT AGE	0-5mo	6-18m	19m-6y	7y-14y	15+
Scan FOV	SM BODY	SM BODY	MED BODY	MED BODY	MD BODY
Smart mA/ODM	10-600	75-500	10-720	10-400	10-275
kVp *kV assist	80	80	100	120*	120

**Reconstruction Parameters**

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<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