

Imaging Protocol – CT Pedi Soft Tissue (ST) Neck

CTDI: 0-4yr: ≤ 15mGy 5-16: ≤30mGy

PT Prep:

- **IV contrast:**
 - 2cc per kg of 300 mg iodine/non-ionic @ 1-2ml/s, not to exceed 100ml unless otherwise determined by Radiologist.

PT Positioning:

- **Retract shoulders as much as possible & tilt the patient's head so that a line connecting the lateral canthus of the eye & the EAC is perpendicular to the CT tabletop**

Setup: Supine & lateral scout from above the orbital roof to below the aortic arch

DFOV: Appropriate for patient's body habitus.

Scan Parameters:

- **Perform post contrast acquisition from above the orbital roof to below the aortic arch (*with the PT instructed not to swallow*)**
- **Scan delay 60 seconds after start of contrast**
- **Scan delay 60 seconds after start of contrast**

PACS SERIES

1. SCOUT
2. ST AX
3. BONE AX
4. ST CORONAL 1.5X1.5
5. ST SAGITTAL 1.5X1.5
6. DOSE REPORT

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Acquisition Parameters

PT AGE	0-5mo	6-18m	19m-6y	7y-14y	15+
Scan Type	HELICAL	HELICAL	HELICAL	HELICAL	HELICAL
Scan FOV	PED BODY	SM BODY	SM BODY	SM BODY	SM BODY
mA *Smart mA/ODM	10-350*	10-220*	175-450*	10-550*	10-405*
kVp *kV assist	80	100	120	120	120
Focal Spot	S	S	S	S	S
Noise Index	8.2	6.2	9.2	8.2	10.2
Pitch and Speed (mm/rot)	0.984:1 (140.63 mm/s)	0.992:1 (283.48mm/s)	0.992:1 (283.48mm/s)	0.992:1 (158.75 mm/s)	0.992:1 (79.38 mm/s)
Detector Coverage *Smart Coverage	40mm	80	80	80	80
Thick	1.25	1.25	1.25	1.25	1.25
Speed	0.28	0.28	0.28	0.50	1.00

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Reconstruction Parameters

RECON 1(Soft Tissue)	
Algorithm	Std
ASIR	50%
Recon Type	Helical Full
Slice Thickness	1.25
Increment	1.25
RECON 2 (Bone)	
Algorithm	Bone Plus
ASIR	50%
Recon Type	Helical Full
Slice Thickness	1.25
Increment	1.25
RECON 3 (thins for Reformats)	
Algorithm	STND
ASIR	50%
Recon Type	Helical Plus
Slice Thickness	0.625mm
Increment	0.3125mm