

IMAGING PROTOCOL – CT DCN PEDI SOFT-TISSUE (ST) NECK SIEMENS EDGE+128

CTDI: 0-4yr: ≤ 15mGy 5-16: ≤30mGy

PROTOCOL REVIEW 2025 02/df
Approval Imaging Council February 2025

PT Prep:

- IV contrast:
 - 2cc per kg of 300 mg iodine/non-ionic @ 1-2ml/sec, 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 and the EAC is perpendicular to the CT tabletop.

Setup: Supine, LAT scout from above frontal sinuses to below the aortic arch.

DFOV: Appropriate for the patient’s body habitus.

Scan Parameters:

- Perform post contrast acquisition from above the frontal sinuses to below the aortic arch (*Instruct the patient not to swallow if possible.*)
- Scan delay 60 seconds after start of contrast.

PACS SERIES

1. SCOUT & DOSE REPORT
3. ST AXL 1.5 x 1.5
2. BONE AXL 1.5 x 1.5
6. ST COR 1.5 X 1.5
7. ST SAG 1.5 X 1.5

Acquisition Parameters

<u>0-40 lbs {up to 18kg}</u>		<u>40-110lb {18kg-50kg}</u>		<u>110lb +/-Adult {over 50 kg}</u>	
Scan Type	Spiral	Scan Type	Spiral	Scan Type	Spiral
Pitch	0.95	Pitch	0.95	Pitch	0.95/0.85
Detector Configuration	32 x 1.2	Detector Configuration	32 x 1.2	Detector Configuration	128 x 0.6
Slice Thickness	1.5	Slice Thickness	1.5	Slice Thickness	1.5
Rotation Time	0.33	Rotation Time	0.5	Rotation Time	0.5/1.0
Care Dose	on	Care Dose	on	Care Dose	on
Care kV	off	Care kV	on	Care kV	on
Dose Optimization	7	Dose Optimization	7	Dose Optimization	7
Quality Ref mAs	164	Quality Ref mAs	250	Quality Ref mAs	350
Ref kV	100	Ref kV	120	Ref kV	120

Reconstruction Parameters

Recon 1 ST Axial	
Kernel	Br38
ADMIRE	3
Window	Soft Tissue 400 40
Slice Thickness	1.5 x 1.5
Recon 2 Bone Axial	
Kernel	Br59
ADMIRE	1
Window	Bone 1500 450
Slice Thickness	1.5 x 1.5
Recon 3 Coronal Bone	Recon 4 Sagittal Bone
Kernel: Br57	Kernel: Br57
ADMIRE: none	ADMIRE: none
Window: Osteo 1500 450	Window: Osteo 1500 450
Slice Thickness 1 x 1	Slice Thickness 1 x 1
Recon 5 Coronal ST	Recon 6 Sagittal ST
Kernel: Br38	Kernel: Br38
ADMIRE: 3	ADMIRE: 3
Window: Spine 350 40	Window: Spine 350 40
Slice Thickness: 2 x 1	Slice Thickness: 2 x 1