

Child Chest

Siemens 16 Slice

Application Examples: tumor, lymphoma, metastases

Oral Contrast	No
IV Contrast / Volume	Omnipaque 300 / *see below

Technical Factors

Injection Rate	1-2 ml/sec
Care Bolus ROI Location / HU	Aortic Arch / 100
Monitoring Delay	10 seconds
Cycle Time	1.5 seconds
Scan Delay	5 seconds
Breath Hold	Inspiration if age appropriate

Scan Type	Spiral
Detector Collimator	Acq 16 x 1.2 mm
kV / mAs / Rotation Time (seconds)	110 kV / 39mAs / 0.6
Care Dose 4D	On
Pitch	1.5
Typical CTDIvol	2.82 mGy

Topogram: AP, 512 mm

Chest	Width / Increment	Kernel	Window	FoV	Series Description	Networking
Recon 1	3 x 3	B30s	Mediastinum	-	AXIAL	PACS
Recon 2	3 x 3	B70s	Lung	-	AXIAL LUNG	PACS
Recon 3	1.5 x 0.7	B30s	Mediastinum	-	AXIAL 1.5 x 0.7 STND	MPR / TeraRecon

Patient Position: Patient lying supine with arms above head and lower legs supported.

Scan Range: Lung apices through adrenal glands.

Recons: Adjust FoV to fit body contour. On Recon 2, set beginning and end points to include *lungs only* (apices to costophrenic angles).

Reformations: Post processing done in 3D card.

Series: Chest	Reformat Type	Width / Increment	Window	Series Description	Networking
Recon 3	Coronal MPR	3 x 3	Mediastinum	COR	PACS
Recon 3	Sagittal MPR	3 x 3	Mediastinum	SAG	PACS

*Amount of contrast used is based on child's weight. Weight in pounds (lbs) x 0.62 = total IV contrast amount.