Imaging Protocol – CT Pedi Chest GE REVOLUTION 256

CTDI: 0-4yr: ≤ 15mGy 5-16: ≤30mGy

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

PT Positioning:
- **Both arms should be raised above head for optimal image quality.**
- **If PT cannot raise one arm, one arm down is preferred over both arms down.**
- **If both arms are unable to be raised, this information should be documented in tech notes for the radiologist.**

Setup: Supine, AP/LAT scout from above apices through the adrenal glands/mid T1. DFOV: Appropriate for patient's body habitus.

Scan Parameters:
1. **50 second delay from start of injection of contrast**
2. **Scan from above the apices through the adrenal glands**

PACS SERIES
1. **SCOUT**
2. **ST AX**
3. **LUNG AX**
4. **ST CORONAL 3X3**
5. **ST SAGITTAL 3X3**
6. **DOSE REPORT**

Acquisition Parameters

Scan Type	HELICAL	HELICAL	HELICAL	HELICAL
PT Weight (lbs)	1-20.9	20.9-49.6	49.6-89.1	89.1-199.1
Pitch and Speed (mm/rot)	0.984:1 (140.63 mm/s)	0.992:1 (283.48mm/s)	0.992:1 (226.49 mm/s)	0.992:1 (79.35mm/s)
Detector Coverage	40	80	80	80
Thick	2.5	2.5	2.5	2.5
Speed	0.28	0.28	0.35	1.00
Noise Index	11.9	10.4	13.4	15.4

PT Weight (lbs)	1-20.9	20.9-49.6	49.6-69.5	69.5-89.1	89.1-199.1
Scan FOV	PED BODY	SM BODY	MED BODY	MED BODY	LG BODY
Smart mA Range	10-525	10-600	10-600	10-600	10-550
kVp *Kv Assist*	80	100*	120*	120*	120*

Reconstruction Parameters

RECON 1(Soft Tissue)	
Algorithm	Stnd
ASIR	50%
Recon Type	Helical Full
Slice Thickness	2.5
Increment	2.5
RECON 2 (Lung)	
Algorithm	Lung
ASIR	50%
Recon Type	Helical Full
Slice Thickness	2.5
Increment	2.5
RECON 3 (thins for Reformats)	
Algorithm	STND
ASIR	50%
Recon Type	Full
Slice Thickness	0.625mm
Increment	0.3125mm