

# PEDIATRIC CTA/CTV ABD/PEL 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 (use Omni 350 if over 50lbs), 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 scout from above diaphragm through the symphysis pubis (iliac crest for ABD only)

**DFOV:** Appropriate for patient’s body habitus.

**Scan Parameters:**

- **Non-Contrast (if requested)**
- **Arterial Phase**  
*\*Bolus tracking/Smart Prep scan trigger is set at 140 HU in the descending aorta at the level of the scan start*
- **Venous Phase (if ordered)**  
**-Scan 1 minute into contrast bolus using a angio flow rate**

**PACS SERIES**

1. SCOUT
2. ST AX
3. LUNG AX
4. MIP CORONAL 1X1
5. MIP SAGITTAL 1X1
6. DOSE REPORT

**Acquisition Parameters**

Scan Type	HELICAL	HELICAL	HELICAL	HELICAL	HELICAL
<b>PT Weight (lbs)</b>	1-20.9	20.9-49.6	49.6-89.1	89.1-199.1	199.1-500
<b>Pitch and Speed (mm/rot)</b>	0.984:1 (140.63 mm/s)	0.992:1 (283.48mm/s)	0.992:1 (226.79 mm/s)	0.992:1 (79.38mm/s)	0.992:1 (79.38mm/s)
<b>Detector Coverage</b>	40	80	80	80	80
<b>Slice thick (mm)</b>	1.25	1.25	1.25	1.25	1.25
<b>Speed</b>	0.28	0.28	0.35	1.00	1.00
<b>Noise Index</b>	10.6	13.2	16	17.4	21.6

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<b>PT BODY SIZE</b>	1-20.9 lbs	20.9-49.6 lbs	49.6-89.1 lbs	89.1-199.1 lbs	199.1-500
<b>Scan FOV</b>	PED BODY	SM BODY	MED BODY	LG BODY	LG BODY
<b>Smart mA Range *ODM</b>	10-525*	10-600*	10-550*	10-550*	10-600*
<b>kVp *Kv Assist*</b>	80	100*	120*	120*	120

### Reconstruction Parameters

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