

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 100 ml 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 diaphragm to mid thighs

DFOV: Appropriate for patient’s body habitus.

**Scan Parameters:**

- Scan from just above the diaphragm through the Greater Trochanters.
- Contrast- At the discretion of the radiologist, inject 2cc/kg Omni 350 with an arterial flow rate. (No saline after contrast).
  - Scan at 60-75 sec post injection

**PEDI PACS SERIES**

**SCOUT & DOSE “PATIENT PROTOCOL”**

ST AX 1.5 X 1.5

MIP CORONAL 1 x 1

MIP SAGITTAL 1 x 1

MPR COR 3 X 3

MPR SAG 3 X 3

**Acquisition Parameters**

<u>Pedi &lt; 110lbs</u>		<u>Pedi &gt; 110lbs</u>		<u>Adult 18+</u>	
Scan Type	Spiral	Scan Type	Spiral	Scan Type	Spiral
Pitch	1.4	Pitch	1.2	Pitch	1.2
Detector Configuration	128 x 0.6	Detector Configuration	128 x 0.6	Detector Configuration	128 x 0.6
Slice Thickness	1.5	Slice Thickness	1.5	Slice Thickness	1.5
Rotation Time	0.28	Rotation Time	0.33	Rotation Time	0.5
Care Dose	on	Care Dose	on	Care Dose	on
Care kV	on	Care kV	on	Care kV	on
Dose Optimization	9	Dose Optimization	9	Dose Optimization	9
Quality Ref mAs/ Ref kV	50/120	Quality Ref mAs/Ref kV	66/120	Quality Ref mAs/Ref kV	84/120

## Reconstruction Parameters

<b>Recon 1 Axial Soft Tissue</b>	
<b>Kernel</b>	<b>Br38</b>
<b>ADMIRE</b>	<b>3</b>
<b>Window</b>	<b>Soft Tissue 400 40</b>
<b>Slice Thickness</b>	<b>1.5 x 1.5</b>
<b>Recon 3 MIP Coronal</b>	<b>Recon 4 MIP Sagittal</b>
<b>Kernel: Bv40</b>	<b>Kernel: Bv40</b>
<b>ADMIRE: 3</b>	<b>ADMIRE: 3</b>
<b>Window: CT Angio 700 80</b>	<b>Window: CT Angio 700 80</b>
<b>Slice Thickness: 1 x 1</b>	<b>Slice Thickness: 1 x 1</b>
<b>Recon 3 Coronal MPR</b>	<b>Recon 4 Sagittal MPR</b>
<b>Kernel: Br38</b>	<b>Kernel: Br38</b>
<b>ADMIRE: 3</b>	<b>ADMIRE: 3</b>
<b>Window: Soft Tissue 400 40</b>	<b>Window: Soft Tissue 400 40</b>
<b>Slice Thickness: 3.0 x 3.0</b>	<b>Slice Thickness: 3.0 x 3.0</b>
<b>Recon 6 Reformat</b>	
<b>Kernel</b>	<b>Br38</b>
<b>ADMIRE</b>	<b>3</b>
<b>Window</b>	<b>Mediastinum 350 50</b>
<b>Slice Thickness</b>	<b>1.5 x 0.6 or 1.0 x 0.7</b>