

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 through the symphysis pubis (iliac crest for ABD only)

DFOV: Appropriate for patient’s body habitus.

Scan Parameters:

- **Non-contrast (only if requested)**
- **Arterial phase**
 - *Bolus tracking trigger at 120HU in the descending aorta at the level of the scan start*
- **Venous Phase (only if ordered)**
 - *Scan at 60 sec post injection*

PEDI PACS SERIES

SCOUT & DOSE “PATIENT PROTOCOL”

Arterial AX 1.5 X 1.5

LUNG 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

MIP RAO 1 x 1 (if assessing renal artery)

MIP LAO 1 x 1 (if assessing renal artery)

Acquisition Parameters

<u>Pedi < 110lbs</u>		<u>Pedi > 110lbs</u>		Adult 18+	
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

Recon 1 Axial Soft Tissue	
Kernel	Br38
ADMIRE	3
Window	Soft Tissue 400 40
Slice Thickness	1.5 x 1.5
Recon 2 Axial Lung	
Kernel	Br59
ADMIRE	1
Window	Lung
Slice Thickness	1.5 x 1.5
Recon 3 MIP Coronal	Recon 4 MIP Sagittal
Kernel: Bv40	Kernel: Bv40
ADMIRE: 3	ADMIRE: 3
Window: CT Angio 700 80	Window: CT Angio 700 80
Slice Thickness: 1 x1	Slice Thickness: 1 x 1
Recon 3 Coronal MPR	Recon 4 Sagittal MPR
Kernel: Br38	Kernel: Br38
ADMIRE: 3	ADMIRE: 3
Window: Soft Tissue 400 40	Window: Soft Tissue 400 40
Slice Thickness: 3.0 x 3.0	Slice Thickness: 3.0 x 3.0
Recon 6 Reformat	
Kernel	Br38
ADMIRE	3
Window	Mediastinum 350 50
Slice Thickness	1.5 x 0.6 or 1.0 x 0.7