

**CTDI: 0-4yr: ≤ 7mGy 5-16: ≤10mGy**

**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 L1.

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

**Scan Parameters:**

- Scan from above the apices through the adrenal glands
  - If patient can tolerate, scan both inspiration & *lower 1/3 of lungs in expiration to evaluate for air trapping*. If not, only scan inspiration.

**PACS SERIES**

1. SUPINE SCOUT
2. LUNG AX 1X1 (INSPIR)
3. ST AX 3X3 (INSPIR)
4. LUNG CORONAL (INSPIR) 1X1
5. LUNG SAGITTAL (INSPIR) 1X1
6. ST CORONAL (INSPIR) 3X3
7. ST SAGITTAL (INSPIR) 3X3
8. PRONE SCOUT
8. LUNG AXL (EXPIRATION- lower 1/3 of lungs only)
9. LUNG COR (EXPIRATION- lower 1/3 of lungs only)
10. LUNG SAG (EXPIRATION- lower 1/3 of lungs only)
11. DOSE REPORT

**Acquisition Parameters**

<u>Pedi &lt; 110lbs</u>		<u>Pedi &gt; 110lbs</u>	
Scan Type	Spiral	Scan Type	Spiral
Pitch	1.4	Pitch	1.2
Detector Configuration	32 x 1.2	Detector Configuration	128 x 0.6
Slice Thickness	1.0	Slice Thickness	1.0
Rotation Time	0.5	Rotation Time	0.5
Est. Scan Time	1.26	Est. Scan Time	3.98
Care Dose	on	Care Dose	on
Care kV	on	Care kV	on
Dose Optimization	7	Dose Optimization	7
Quality Ref mAs/ Ref kV	50/120	Quality Ref mAs/Ref kV	66/120

## Reconstruction Parameters

<b>Recon 1 Axial Lung</b>	
<b>Kernel</b>	<b>Br59</b>
<b>ADMIRE</b>	<b>none</b>
<b>Window</b>	<b>Baby Lung 1200 -600</b>
<b>Slice Thickness</b>	<b>1.0 x 1.0</b>
<b>Recon 2 Axial ST</b>	
<b>Kernel</b>	<b>Br38</b>
<b>ADMIRE</b>	<b>2</b>
<b>Window</b>	<b>Mediastinum 350 50</b>
<b>Slice Thickness</b>	<b>3.0 x 3.0</b>
<b>Recon 3 Coronal Lung</b>	<b>Recon 4 Sagittal Lung</b>
<b>Kernel: Br59</b>	<b>Kernel: Br59</b>
<b>ADMIRE: 1</b>	<b>ADMIRE: 1</b>
<b>Window: Baby Lung 1200 -600</b>	<b>Window: Baby Lung 1200 -600</b>
<b>Slice Thickness: 1.0 x 1.0</b>	<b>Slice Thickness: 1.0 x 1.0</b>
<b>Recon 5 Coronal ST</b>	<b>Recon 6 Sagittal ST</b>
<b>Kernel: Br38</b>	<b>Kernel: Br38</b>
<b>ADMIRE: 3</b>	<b>ADMIRE: 3</b>
<b>Window: Mediastinum 350 50</b>	<b>Window: Mediastinum 350 50</b>
<b>Slice Thickness: 3.0 x 3.0</b>	<b>Slice Thickness: 3.0 x 3.0</b>