

**RIH – PEDI CHEST ANGIOGRAM
SIEMENS DEFINITION AS20 PROTOCOL**

Indications: Evaluation of the thoracic aorta, pulmonary vessels

Position/Landmark	Head first or feet first-Supine 2cm superior to shoulders																														
Topogram Direction	Craniocaudal / Craniocaudal																														
Respiratory Phase	Inspiration																														
Scan Type	Helical																														
Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization	Care kV 100 / Care Dose4D 150 / 0.5 sec .8:1 , 16.00mm 3 / 7																														
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm																														
Average Tube Output	ctdi – 4 mGy dlp – 160 mGy.cm																														
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1"> <thead> <tr> <th>recon</th> <th>body part</th> <th>thickness/ spacing</th> <th>algorithm</th> <th>recon destination .</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>chest cta</td> <td>2mm x 2mm</td> <td>B30f medium smooth</td> <td>pac</td> </tr> <tr> <td>2</td> <td>lungs</td> <td>3mm x 3mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> <tr> <td>3</td> <td>coronal chest</td> <td>2mm x 2mm</td> <td>B30f medium smooth</td> <td>pac</td> </tr> <tr> <td>4</td> <td>sagittal chest</td> <td>2mm x 2mm</td> <td>B30f medium smooth</td> <td>pac</td> </tr> <tr> <td>5</td> <td>thin chest</td> <td>1.5mm x 1mm</td> <td>B30f medium smooth</td> <td>terarecon</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon destination .	1	chest cta	2mm x 2mm	B30f medium smooth	pac	2	lungs	3mm x 3mm	I70f very sharp	pac	3	coronal chest	2mm x 2mm	B30f medium smooth	pac	4	sagittal chest	2mm x 2mm	B30f medium smooth	pac	5	thin chest	1.5mm x 1mm	B30f medium smooth	terarecon
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Scan Start / End Locations DFOV	1cm superior to lung apices mid kidney 38cm decrease appropriately																														
IV Contrast Volume / Type / Rate	Contrast volume is 1cc per pound of body weight Omnipaque300 / 4cc per second or hand injection if necessary																														
Scan Delay	18 seconds or just after hand bolus is completed																														
2D/3D Technique Used	Workstream 4D mpr of 2mm x 2mm coronal and sagittal chest mip series, auto-transferred to PACS.																														
Comments: Recon 5 is a thin helical volume of the chest that is archived to the TeraRecon server.																															
Images required in PACS	Topograms, 2mm x 2mm axial arterial chest, 2mm x 2mm coronal arterial chest, 2mm x 2mm sagittal arterial chest, 5mm x 5mm axial lungs, Patient Protocol																														