

**RIH - PULMONARY VEIN MAPPING
SIEMENS DEFINITION AS20 PROTOCOL**

Application: pre-op work up for cardiac ablation patients with chronic afib or ventricular tachycardia

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 120 / Care Dose4D 150 / 0.5 sec 1.5:1 , 15.00mm 2 / 8																									
Detector width x Rows = Beam Collimation	0.625mm x 20 = 12.5mm																									
Average Tube Output	ctdi – 9 mGy dlp – 350 mGy.cm																									
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>body part</th> <th>thickness/ spacing</th> <th>algorithm</th> <th>recon destination .</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pulm vein mapping</td> <td>1.5mm x 1.5mm</td> <td>B26s medium smooth</td> <td>pac</td> </tr> <tr> <td>2</td> <td>lungs</td> <td>5mm x 5mm</td> <td>I70f very sharp</td> <td>pac</td> </tr> <tr> <td>3</td> <td>coronal pulm vein</td> <td>1.5mm x 1.5mm</td> <td>B26s medium smooth</td> <td>pac</td> </tr> <tr> <td>4</td> <td>thin chest</td> <td>1.5mm x 1.2mm</td> <td>B26s medium smooth</td> <td>terarecon</td> </tr> </tbody> </table>		body part	thickness/ spacing	algorithm	recon destination .	1	pulm vein mapping	1.5mm x 1.5mm	B26s medium smooth	pac	2	lungs	5mm x 5mm	I70f very sharp	pac	3	coronal pulm vein	1.5mm x 1.5mm	B26s medium smooth	pac	4	thin chest	1.5mm x 1.2mm	B26s medium smooth	terarecon
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Scan Start / End Locations	mid aortic arch 2cm inferior to heart																									
DFOV	25cm																									
IV Contrast Volume / Type / Rate	75mL Iohexol (Omnipaque 350) / 3mL per second																									
Scan Delay	Bolus tracking at the aortic root																									
2D/3D Technique Used	Workstream 4D mpr of 1.5mm x 1.5mm coronal chest mip series, auto-transferred to PACS.																									
Comments: Recon 4 is a thin helical volume of the chest that is archived to the TeraRecon server.																										
Images required in PACS	Topograms, 1.5mm x 1.5mm axial arterial chest, 5mm x 5mm coronal arterial chest, 1.5mm x 1.5mm axial lungs, Patient Protocol																									