

## RIH - PULMONARY VEIN MAPPING GE LIGHTSPEED VCT PROTOCOL

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

<b>Position/Landmark</b>	Feet first-Supine Sternal Notch			
<b>Topogram Direction</b>	Craniocaudal			
<b>Respiratory Phase</b>	Suspension			
<b>Scan Type</b>	Helical			
<b>KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction</b>	120kv / smart mA (100-450) / 0.4 sec 1.375:1 , 55.00mm 22.0 / 70 / 30%			
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 64 = 40mm			
<b>Average Tube Output</b>	ctdi – 10.6 mGy dlp – 298 mGy.cm			
<b>Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	<u>recon</u>	<u>body part</u>	<u>thickness/ spacing</u>	<u>recon destination .</u>
	1	<b>pv mapping</b>	1.25mm x 1.25mm	standard pacs
	2	thin pv mapping	1.25mm x .6mm	standard for dmpr
	3	<b>lungs</b>	5mm x 5mm	lung pacs
<b>Scan Start / End Locations</b>	mid aortic arch 2cm inferior to heart			
<b>DFOV</b>	25cm			
<b>IV Contrast Volume / Type / Rate</b>	75mL Iohexol (Omnipaque 350) / 3mL per second			
<b>Scan Delay</b>	Smart prep at the aortic root			
<b>2D/3D Technique Used</b>	DMPR of 2.5mm x 2.5mm <b>coronal mip</b> series (auto-batch on), average mode, auto-transferred to PACS.			
<b>Comments:</b> There are two indications for this protocol. First is atrial fibrillation and second is ventricular tachycardia. This is a ct angiogram of the left atrium and pulmonary veins.				
<b>Images required in PACS</b>	Scouts, 1.25mm x 1.25mm axial arterial pulm vein mapping, 2.5mm x 2.5mm coronal pulmonary vein mapping mips, lung window, Dose Report			