

RIH - PULMONARY VEIN MAPPING GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

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

Position/Landmark	Head first or feet first-Supine Sternal Notch				
Topogram Direction	Craniocaudal				
Respiratory Phase	Suspension of Respiration (not Inspiration)				
Scan Type	Helical				
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	120kv / smart mA (120-450) / 0.5 sec 1.375:1 , 27.50mm 24.0 / 30 / 30%				
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm				
Average Tube Output	ctdi – 10.0 mGy dlp – 357 mGy.cm				
Helical Set	body thickness/ recon part spacing algorithm recon destination .				
Slice Thickness/ Spacing	1	pv mapping	1.25mm x 1.25mm	standard	pac
Algorithm	2	thin chest	1.25mm x .6mm	standard	for dmpr
Recon Destination	3	lung	5mm x 5mm	lung	pac
Scan Start / End Locations	1cm superior to lung apices 1cm inferior to costophrenic angles				
DFOV	38cm decrease appropriately				
IV Contrast Volume / Type / Rate	75cc omni 350 / 3cc per second				
Scan Delay	Smart prep at the aortic root				
2D/3D Technique Used	DMPR of 2.5mm x 2.5mm coronal mip series (auto-batch on), average mode, auto-transferred to PACS.				
Comments:					
Images required in PACS	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				