

## RIH – ADRENAL MASS CT GE LIGHTSPEED VCT PROTOCOL

**Indications: R/O adrenal mass. Characterize known adrenal mass (differentiate a met from and adenoma).**

<b>Position/Landmark</b>	Head first or feet first-Supine Xyphoid			
<b>Topogram Direction</b>	Craniocaudal			
<b>Respiratory Phase</b>	Inspiration			
<b>Scan Type</b>	Helical			
<b>KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction</b>	120kv / smart mA (120-450) / 0.5 sec .984:1 , 39.37mm 11.5 / 70 / 30%			
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 64 = 40mm			
<b>Average Tube Output</b>	Each Helical: ctdi – 10.7 mGy dlp – 305.6 mGy.cm			
<b>First Helical Set</b>	recon	body part	thickness/ spacing	recon destination .
Slice Thickness/ Spacing			algorithm	
Algorithm	1	<b>non con adrenals</b>	2.5mm x 2.5mm	pacs
Recon Destination	2	thin nc adrenals	.6mm x .6mm	for dmpr
<b>Second Helical Set</b>	recon	body part	thickness/ spacing	recon destination .
Slice Thickness/ Spacing			algorithm	
Algorithm	1	<b>cortical adrenals</b>	2.5mm x 2.5mm	pacs
Recon Destination	2	thin cortical adrenals	.6mm x .6mm	for dmpr
<b>Third Helical Set</b>	recon	body part	thickness/ spacing	recon destination .
Slice Thickness/ Spacing			algorithm	
Algorithm	1	<b>delayed adrenals</b>	2.5mm x 2.5mm	pacs
Recon Destination	2	thin delayed adrenals	.6mm x .6mm	for dmpr
<b>Scan Start / End Locations</b>	mid diaphragm mid kidney (scan through entire adrenal glands)			
<b>DFOV</b>	38cm decrease appropriately			
<b>IV Contrast Volume / Type / Rate</b>	100mL Iohexol (Omnipaque 350) 3mL/sec			
<b>Scan Delay</b>	Non-Contrast -----	Cortical 60 seconds	Delayed 15 minutes	
<b>2D/3D Technique Used</b>	DMPR of 3mm x 3mm <b>coronal abdomen</b> series (auto-batch on), average mode, auto-transferred to PACS of <b>each phase</b> .			
<b>Comments:</b>	In the non-contrast ct, a ROI must be placed in the adrenal mass. The ROI should occupy the majority of the lesion. <b>If ROI &gt; 10HU, a contrast study should be performed with cortical (60 second) and 15 min delayed images.</b>			
<b>Images required in PACS</b>	Scouts, 2.5mm x 2.5mm axial nc adrenals, 3mm x 3mm coronal nc adrenals, 2.5mm x 2.5mm axial cortical adrenals, 3mm x 3mm coronal cortical adrenals, 2.5mm x 5mm axial delayed adrenals, 3mm x 3mm coronal delayed adrenals, Dose Report			