RIH – RENAL RF THREE PHASE KIDNEY
GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

Indications: To evaluate and characterize a known renal mass before and after tumor ablation.

Position/Landmark	Head first or feet first-Supine Xyphoid
Topogram Direction	Craniocaudal
Respiratory Phase	Inspiration
Scan Type	Helical
KV / mA / Rotation time (sec) **Pitch / Speed (mm/rotation)** **Noise Index / ASiR / Dose Reduction**	120kv / smart mA (100-440) / 0.5 sec 1.375:1 , 27.50mm 16 / 30 / 30%
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm
Average Tube Output	Each Helical: ctdi – 17.1 mGy dlp – 443 mGy.cm
First Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **non con kidneys** 2.5mm x 2.5mm standard pacs 2 thin nc kidneys 1.25mm x .6mm standard for dmpr
Second Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **cortical kidneys** 2.5mm x 2.5mm standard pacs 2 thin cortical kidneys 1.25mm x .6mm standard for dmpr
Third Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **delayed kidneys** 2.5mm x 2.5mm standard pacs 2 thin delayed kidneys 1.25mm x .6mm standard for dmpr
Scan Start / End Locations **DFOV**	1 cm superior to diaphragm iliac crest (scan through entire kidneys) 38cm decrease appropriately
IV Contrast Volume / Type / Rate	100cc omni 350 3cc/sec
Scan Delay	Non-Contrast Cortical Delayed ----- 65 seconds 4 minutes
2D/3D Technique Used	DMPR of 2.5mm x 2.5mm **coronal abdomen** series (auto-batch on), average mode, auto-transferred to PACS of each phase.
Comments: This protocol consists of a non contrast series, and then a contrast series, then a delayed series.	
Images required in PACS	Scouts, 2.5mm x 2.5mm axial nc kidneys, 2.5mm x 2.5mm coronal nc kidneys, 2.5mm x 2.5mm axial cortical kidneys, 2.5mm x 2.5mm coronal cortical kidneys, 2.5mm x 2.5mm axial delayed kidneys, 2.5mm x 2.5mm coronal delayed kidneys, Dose Report

updated Jan 23, 2017