RIH – MULTIPHASE CT FOR HEMATURIA
SIEMENS DEFINITION AS+ PROTOCOL

Indications: Non contrast and dual meduallary and delayed phase study for patients with hematuria.

Position/Landmark	Head first or feet first-Supine Sternal Notch
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 / 210 / 0.5 sec .8:1 , 32.00mm non con 3 / 4 contrast 3 / 6
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm (128 x .6mm)
Average Tube Output	ctdi – 10.0mGy dlp – 500mGy.cm
First Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination 1 **nc renal stone** 5mm x 5mm I40f medium pacs 2 **coronal nc abd/pelvis** 5mm x 5mm I40f medium pacs 3 thin abd/pelvis .75mm x .6mm I40f medium terarecon
Second Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination 1 **iv contrast kub** 5mm x 5mm I40f medium pacs 2 **coronal contrast kub** 5mm x 5mm I40f medium pacs 3 thin abd/pelvis .75mm x .6mm I40f medium terarecon
Scan Start / End Locations **DFOV**	1 cm superior to diaphragm lesser trochanters 38cm decrease appropriately
IV Contrast Volume / Type / Rate	after the non-contrast series 30mL Iohexol (Omnipaque 300) followed by 120mL saline / 2mL per second then 10 minute delay, followed by 100mL Iohexol (Omnipaque 300) / 3mL per second
Scan Delay	Non-Contrast Contrast ---- 140 seconds
2D/3D Technique Used	Workstream 4D mpr of 5mm x 5mm **coronal nc abdomen/pelvis** series, 5mm x 5mm **coronal iv abd/pelvis** 10mm x 3mm **oblique mips of each ureter**, auto-transferred auto-transferred to PACS.
Comments: Recon 3 is a thin helical volume of the abdomen/pelvis that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 5mm x 5mm axial nc abd/pelvis, 5mm x 5mm coronal non contrast abd/pelvis, 5mm x 5mm axial contrast kub, 5mm x 5mm coronal contrast abd/pelvis, 10mm x 3mm mip oblique reformat of each ureter, Patient Protocol

updated Jan 23, 2017