RIH – NC ABDOMEN/PELVIS FOR RENAL STONE
GE LIGHTSPEED VCT PROTOCOL

Indications: Evaluation for renal/ureteral calculi.

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**	Maximum lateral diameter **< 40 cm** **100kv** / smart mA (120-450) / 0.5 sec .984:1 , 39.37mm **16.0** / 70 / 30%
KV / mA / Rotation time (sec) **Pitch / Speed (mm/rotation)** **Noise Index / ASiR / Dose Reduction**	Maximum lateral diameter **> 40 cm** **120kv** / smart mA (120-450) / 0.5 sec .984:1 , 39.37mm **14.5** / 70 / 30%
KV / mA / Rotation time (sec) **Pitch / Speed (mm/rotation)** **Noise Index / ASiR / Dose Reduction**	Maximum lateral diameter **> 48 cm** **140kv** / smart mA (120-460) / 0.5 sec .984:1 , 39.37mm **14.5** / 70 / 30%
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm
Average Tube Output	ctdi – 8.8 mGy dlp – 485 mGy.cm
Helical Set **Slice Thickness/ Spacing** **Algorithm** **Recon Destination**	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **nc renal stone** 5mm x 5mm standard pacs 2 thin abd/pelvis .6mm x .6mm standard for dmpr
Scan Start / End Locations **DFOV**	1 cm superior to diaphragm lesser trochanters 38cm decrease appropriately
IV Contrast Volume / Type / Rate	
Scan Delay	
2D/3D Technique Used	DMPR of 5mm x 5mm **coronal abdomen/pelvis** series (auto-batch on), average mode, auto-transferred to PACS.
Comments: This protocol is has a higher noise index and is specifically used for detection of gu calculi. Recon 2 is a thin helical volume of the abdomen/pelvis that is archived and used in direct multi-planar reformats.	
Images required in PACS	Scouts, 5mm x 5mm axial nc renal stone, 5mm x 5mm coronal abdomen/pelvis, Dose Report

updated Jan 23, 2017