RIH – CT FOR HEMATURIA GE LIGHTSPEED VCT PROTOCOL

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

Position/Landmark	Head first or feet first-Supine					
		Xyphoid				
Topogram Direction		Craniocaudal				
Respiratory Phase	Inspiration					
Scan Type	Helical					
KV / mA / Rotation time (sec)	120kv / smart mA (120-450) / 0.5 sec					
Pitch / Speed (mm/rotation)	.984:1 , 39.37mm					
Noise Index / ASiR / Dose Reduction		13 nc and 11.5 contrast / 70 / 30%				
Detector width x Rows = Beam Collimation		0.625mm x $64 = 40$ mm				
Average Tube Output	Each Helical: ctdi – 11.3 mGy dlp – 616 mGy.cm					
First Helical Set		body	thickness/		recon	
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .	
Algorithm	1	nc renal stone	5mm x 5mm	standard	pacs	
Recon Destination	2	thin non con abd/pel	.6mm x .6mm	standard	pacs	
Second Helical Set		body	thickness/		recon	
Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .	
Algorithm	1	contrast kub	5mm x 5mm	standard	pacs	
Recon Destination	2	thin contrast kub	.6mm x .6mm	standard	for dmpr	
Scan Start / End Locations	1 cm superior to diaphragm lesser trochanters					
		38cm				
DFOV	decrease appropriately					
IV Contrast Volume / Type / Rate		after the non-contrast series 30mL Iohexol (Omnipaque 350) followed by 120mL saline / 2mL per second				
	30mL					
	then 10 minute delay,					
		per second				
Scan Delay	Non-Contrast Contrast 140 seconds					
2D/3D Technique Used	DMPR of 5mm x 5mm coronal abd/pelvis (auto-batch on), average mode, 10mm x 3mm oblique mips of each ureter (auto-batch off) auto-transferred					
	to PA					
Comments: This is an adult patient protocol only. This protocol consists of a non-contrast renal stone series from the						
kidneys to the bladder and then a dual contrast phase from the kidneys to the bladder. After the non-contrast series,						
30mL of contrast and 120mL of sali patient is scanned with a 140 second		•	nute wait, 100mL o	of contrast 1s 1nje	ected and the	
Images required in PACS	Scouts	5mm x 5mm axial no	abd/nelvis 5mm	5mm coronal r	ion contrast	
ingo required in 17100	Scouts, 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, Dose Report				
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