RIH – CT FOR RENAL MASS SIEMENS DEFINITION AS+ PROTOCOL

Indications: To evaluate and characterize a potential renal mass.

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 210 / 0.5 sec .8:1, 32.00mm 3 / 6					
Detector width x Rows = Beam	$0.625 \text{mm} \times 64 = 40 \text{mm}$					
Collimation	(128 x .6mm)					
Average Tube Output	Each Helical: ctdi – 11.3mGy					
First Helical Set		body	dlp – 313 mGy.	CIII	recon	
Slice Thickness/ Spacing	recon		spacing	algorithm	destination .	
Algorithm	1	non con kidneys	3mm x 3mm	I40f medium	pacs	
Recon Destination	2 0	coronal nc kidneys	3mm x 3mm	I40f medium	pacs	
	3	thin nc kidneys	.75mm x .6mm	I40f medium	terarecon	
Second Helical Set		body	thickness/		recon	
Slice Thickness/ Spacing	recon		spacing	algorithm	destination .	
Algorithm	1	delayed kidneys	3mm x 3mm	I40f medium	pacs	
Recon Destination		oronal delayed kidne	•	I40f medium	pacs	
	3	thin delayed kidneys		I40f medium	terarecon	
Scan Start / End Locations		1 cm superior to diaphragm iliac crest (scan through entire kidneys)				
DFOV		38cm				
		decrease appropriately				
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 300) 3mL/sec					
		Toome Tonesor (Ommpaque 500) Sinesoc				
Scan Delay		Non-Contrast Delayed 4 minutes				
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm coronal imaging of each phase , auto-					
transferred to PACS.						
Comments: This protocol consists of a non contrast series, and then a contrast series. The contrast series is a						
delayed scan at 4 minutes. The non-contrast series is to discover hyperdense cysts and to establish a baseline to						
determine enhancement. The delayed contrast phase is important to determine enhancement of a mass.						
Images required in PACS	Tonogr	Гороgrams, 3mm x 3mm axial nc kidneys, 3mm x 3mm coronal nc kidneys,				
_	3mm x 3mm axial delayed kidneys, 3mm x 3mm coronal delayed kidneys,					
		Patient Protocol				