Abdomen Renal Mass

Siemens 16 Slice

Application Examples: renal mass				
Oral Contrast	Yes			
IV Contrast / Volume	125 ml Omnipaque 350			
Injection Rate	4.0 ml/sec			

Technical Factors

Unenhanced - Arterial – 90 seconds – Delayed				
Scan Type	Spiral			
Detector Collimator	Acq 16 x 1.2 mm			
kV / mAs / Rotation Time	130 kV / 155mAs / 0.6 seconds			
Care Dose 4D	On			
Pitch	0.8			
Typical CTDIvol	17.26 mGy			

Breath Hold	Inspiration

Arterial Phase				
Care Bolus ROI Location / HU	Abdominal Aorta / 100			
Monitoring Delay	10 seconds			
Cycle Time	1.5 seconds			
Scan Delay	10 seconds			

Scan Delay	10 seconds				
90 seconds					
Scan Delay *Adjust to scan at 90 seconds					
Delayed					
Scan Delay	300 seconds				

Topogram: AP, 512 mm

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Unenhanced	Width / Increment	Kernel	Window	Series Description	Networking
Recon 1	3 x 3	B30s	Abdomen	AXIAL WITHOUT	PACS
Arterial	Width / Increment	Kernel	Window	Series Description	Networking
Recon 1	3 x 3	B30s	Abdomen	AXIAL ARTERIAL	PACS
Recon 2	1.5 x 0.7	B30s	Abdomen	AXIAL ARTERIAL 1.5 x 0.7 STND PACS/ TeraReco	
90 seconds	Width / Increment	Kernel	Window	Series Description	Networking
Recon 1	3 x 3	B30s	Abdomen	AXIAL 90 SEC	PACS
Recon 2	1.5 x 0.7	B30s	Abdomen	AXIAL 90 SEC 1.5 x 0.7 STND	MPR / TeraRecon
Delay	Width / Increment	Kernel	Window	Series Description	Networking
Recon 1	3 x 3	B30s	Abdomen	AXIAL DELAYED	PACS
Recon 2	15 x 0 7	B30s	Abdomen	AXIAL DELAYED 1.5 X 0.7 STND TeraRecon	

Patient Position: Patient lying supine with arms above head.

Scan Instructions: First, scan kidneys unenhanced (if requested). Take pre-monitoring slice at top of arterial scan range (just above kidneys) and place ROI in aorta. Add monitoring delay, arterial scan delay, and arterial scan time to determine the scan delay for the 90 seconds phase—set to equal 90 seconds from the start of injection. Inject IV contrast and scan kidneys in arterial phase. Then, scan **liver and kidneys** in 90 seconds phase (pelvis also if ordered). Lastly, scan kidneys only in delayed phase (if requested).

Recons: Adjust FoV to fit body contour.

Scan Range: Unenhanced / Arterial / Delay – Kidneys only

90seconds – Upper abdomen to include liver and kidneys (and through ishcial tuberosities if pelvis ordered)

Reformations: Post processing done in 3D card.

Series: Arterial	Reformat Type	Width / Increment	Window	Series Description	Networking
Recon 2	Coronal MIP	3 x 3	Angio	COR MIP	PACS
Recon 2	Sagittal MIP	3 x 3	Angio	SAG MIP	PACS

Series: 90 seconds	Reformat Type	Width / Increment	Window	Series Description	Networking
Recon 2	Coronal MPR	3 x 3	Abdomen	COR	PACS
Recon 2	Sagittal MPR	3 x 3	Abdomen	SAG	PACS