

CAP Renal Mass

Siemens go.All

Application Examples: renal mass	
Oral Contrast	Yes with pelvis, No for abdomen ONLY
IV Contrast / Volume / Injection Rate	Omnipaque 350 / P3T
<i>Technical Factors</i>	
Unenhanced - Arterial – 90 seconds – Delayed	
Detector Collimator	Acq 32 x 0.7 mm
Care kV	On / 120 kV
Care Dose 4D	On / 110 mAs
Rotation Time (seconds)	0.5
Pitch	0.8
Typical CTDIvol	10.34 mGy ± 50%
Arterial Phase	
Care Bolus ROI Location / HU	Abdominal Aorta / 150
Monitoring Delay	20 seconds
Cycle Time	1 second
Scan Delay	10 seconds
Breath Hold	Inspiration
Typical CTDIvol	10.34 mGy ± 50%
90 seconds-CAP	
Scan Delay	Adjust to equal 90 seconds
Typical CTDIvol	10.34 mGy ± 50%
Delayed	
Scan Delay	300 seconds
Typical CTDIvol	10.34 mGy ± 50%

Topogram: Lateral & AP, 512 mm

Unenhanced	Recon Type	Width / Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	3 x 3	Br40	2	Abdomen	AXIAL WITHOUT	PACS	None

Arterial	Recon Type	Width / Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	3 x 3	Br40	2	Abdomen	AXIAL ARTERIAL	PACS	None
Recon 2	Axial:COR	3 x 3	Br40	2	Abdomen	COR ART	PACS	Coronal MPR
Recon 3	Axial:SAG	3 x 3	Br40	2	Abdomen	SAG ART	PACS	Sagittal MPR
Recon 4	Axial	0.6 x 0.6	Br40	2	Abdomen	AXIAL ART 0.6 STND	TR & PACS	None

90 SEC	Recon Type	Width / Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	3 x 3	Br40	2	Abdomen	AXIAL 90 SEC	PACS	None
Recon 2	3D:COR	3 x 3	Br40	2	Abdomen	COR	PACS	Coronal MPR
Recon 3	3D:SAG	3 x 3	Br40	2	Abdomen	SAG	PACS	Sagittal MPR
Recon 4	Axial	2 x 2	Br64	2	Lung	AXIAL LUNG	PACS	None
Recon 5	3D:AXIAL	8 x 5	Br40	2	Lung	AXIAL MIP	PACS	Axial MIP
Recon 6	Axial	1.0 x 0.8	Br36	2	Mediastinum	AXIAL 1.0 x 0.8 STND	TeraRecon	None
Recon 7	Lung CAD	1.0 x 0.7	Br60	2	Lung	LUNG CAD	PACS	None

Delayed	Recon Type	Width / Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	3 x 3	Br40	2	Abdomen	AXIAL DELAYED	PACS	None

Patient Position: Patient lying supine with arms above head.

Gundersen Health System

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 the (1) monitoring delay, (2) arterial scan delay, and (3) arterial scan time to determine the scan delay for the Cortical Medullary (CM) phase—Set to equal 90 seconds from the start of injection.

Inject IV contrast and scan kidneys in arterial phase. Then, scan **CAP** in Cortical Medullary (CM) phase (pelvis if ordered). Lastly, scan kidneys in delayed phase, if requested.

Recons and Reformations: Adjust FoV to fit body contour or to previous FoV if available. Coronal & sagittal MPRs from CM phase.