

**Abdomen Renal Arteries**

Siemens go.All

Application Examples: Renal transplant, renal artery stenosis	
Oral Contrast	1 glass H2O
IV Contrast / Volume	Omnipaque 350 / MedRad P3T
Injection Rate	P3T / 3.5-7 mL / sec

*Technical Factors*

Arterial Phase	
Care Bolus ROI Location / HU	Aorta / 140
Monitoring Delay	10 seconds
Cycle Time	1.5 seconds
Scan Delay	7 seconds
Breath Hold	Inspiration
Care kV	On / 120 kV
Care Dose 4D	On / 135 mAs
Typical CTDIvol	8.79 mGy $\pm$ 50%

90 seconds	
Scan Delay	Adjust to equal 90 seconds
Care kV	On / 120 kV
Care Dose 4D	On / 150 mAs
Typical CTDIvol	10.14 mGy

Scan Type	Spiral
Detector Collimator	Acq 32 x 0.7mm
Rotation Time (seconds)	0.5
Pitch	1.2

Topogram: Lateral and AP, 512 mm

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	Angio	COR MIP	PACS	Coronal MIP
Recon 3	Axial:SAG	3 x 3	Br40	2	Angio	SAG MIP	PACS	Sagittal MIP
Recon 4	Axial	0.6 x 0.6	Br36	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	0.6 x 0.6	Br36	2	Abdomen	AXIAL 90 SEC 0.6 STND	TeraRecon	None

**IV Placement:**  $\geq$  18 gauge, *preferably* in antecubital (AC) fossa.**Patient Preparation:** Give one glass H2O just prior to scan.**Patient Position:** Patient lying supine with arms comfortably above head and lower legs supported.**Scan Instructions:** Take pre-monitoring at level of start position and place ROI in aorta. Scan abdomen in arterial phase, add the (1) monitoring delay, (2) arterial scan delay, and (3) arterial scan time to determine the scan delay for Nephrographic phase—Set to equal 90 seconds from the start of injection. Scan just the kidneys in the nephrographic phase. If a stent is present, do 3 minute delay through entire stent.**Scan Range:** Scan just above diaphragm to iliac crest in arterial phase. Scan just kidneys in a nephrographic phase. If stent, do 3 minute delay through entire stent.**Recons and Reformations:** Adjust FoV to fit body contour.**3D:** Upon request.