

RIH – CT ANGIOGRAM ABDOMEN/PELVIS SIEMENS DEFINITION AS20 PROTOCOL

Indications: Abdominal arterial aneurysm, dissection.

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 180 / 0.5 sec 1.2:1 , 15.00mm 3 / 8
Detector width x Rows = Beam Collimation	.625mm x 20 = 12.5mm
Average Tube Output	ctdi – 10.0mGy dlp – 500mGy.cm
Helical Set	body thickness/ recon part spacing algorithm recon destination .
Slice Thickness/ Spacing	1 axial ct angio 3mm x 3mm I26f medium smooth pacs
Algorithm	2 coronal ct angio 3mm x 3mm I26f medium smooth pacs
Recon Destination	3 sagittal ct angio 3mm x 3mm I26f medium smooth pacs
	4 thin ct angio .75mm x .7mm I26f medium smooth terarecon
Scan Start / End Locations	1 cm superior to diaphragm lesser trochanters
DFOV	38cm decrease appropriately
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350) 4mL/sec
Scan Delay	Bolus tracking at level of celiac artery
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm sagittal and coronal ct angiogram series, auto-transferred to PACS.
Comments: Recon 4 is a thin helical volume of the abdomen/pelvis that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 3mm x 3mm axial ct angio abdomen pelvis, 3mm x 3mm coronal ct angio abdomen pelvis, 3mm x 3mm sagittal ct angio abdomen pelvis, Patient Protocol