

**RIH – PEDI CT ANGIOGRAM ABDOMEN/PELVIS  
SIEMENS DEFINITION AS20 PROTOCOL**

**Indications: Abdominal arterial aneurysm, dissection.**

<b>Position/Landmark</b>	Head first or feet first-Supine Sternal Notch
<b>Topogram Direction</b>	Craniocaudal / Craniocaudal
<b>Respiratory Phase</b>	Inspiration
<b>Scan Type</b>	Helical
<b>Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization</b>	Care kV 100 / Care Dose4D 150 / 0.5 sec .8:1 , 16.00mm 3 / 7
<b>Detector width x Rows = Beam Collimation</b>	1.25mm x 16 = 20mm
<b>Average Tube Output</b>	ctdi – 5.0mGy dlp – 250mGy.cm
<b>Helical Set</b>	body thickness/ recon
Slice Thickness/ Spacing	recon part spacing algorithm destination .
Algorithm	1 <b>axial ct angio</b> 3mm x 3mm I26f medium smooth pacs
Recon Destination	2 <b>coronal ct angio</b> 3mm x 3mm I26f medium smooth pacs
	3 <b>sagittal ct angio</b> 3mm x 3mm I26f medium smooth pacs
	4 thin ct angio 1.5mm x 1mm I26f medium smooth terarecon
<b>Scan Start / End Locations</b>	1 cm superior to diaphragm lesser trochanters
<b>DFOV</b>	38cm decrease appropriately
<b>IV Contrast Volume / Type / Rate</b>	Contrast volume is 1cc per pound of body weight Omnipaque300 / 4cc per second  or hand injection if necessary
<b>Scan Delay</b>	
<b>2D/3D Technique Used</b>	Workstream 4D mpr of 3mm x 3mm <b>sagittal and coronal ct angiogram</b> series, auto-transferred to PACS.
<b>Comments:</b> Recon 4 is a thin helical volume of the abdomen/pelvis that is archived to the TeraRecon server.	
<b>Images required in PACS</b>	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