

## RIH – CT ANGIOGRAM ABDOMEN/PELVIS S/P REPAIR GRAFT SIEMENS DEFINITION AS20 PROTOCOL

**Indications:** Evaluate patency of stent graft, to determine thrombosis of excluded portion of aorta, and to look for endovascular leaks.

<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 120 / Care Dose4D 180 / 0.5 sec 1.2:1 , 15.00mm non con 3 / 4 contrast 3 / 8																									
<b>Detector width x Rows = Beam Collimation</b>	.625mm x 20 = 12.5mm																									
<b>Average Tube Output</b>	ctdi – 10.0mGy dlp – 500mGy.cm																									
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<b>Scan Start / End Locations</b> <b>DFOV</b>	1 cm superior to diaphragm lesser trochanters decrease appropriately 38cm																									
<b>IV Contrast Volume / Type / Rate</b>	100mL Iohexol (Omnipaque 350) 4mL/sec																									
<b>Scan Delay</b>	Bolus tracking at level of celiac artery																									
<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>	Comments: A non-contrast study is done first. Then the cta is done using a smart prep at the level of the celiac artery. Note: There is a second contrast helical scan done 60 seconds after the cta to look for subtle leak.																									
<b>Images required in PACS</b>	Topograms, 5mm x 5mm axial abd pelvis, 5mm x 5mm coronal abd pelvis, 3mm x 3mm axial ct angio abdomen pelvis, 3mm x 3mm coronal ct angio abdomen pelvis, 3mm x 3mm sagittal ct angio abdomen pelvis, 3mm x 3mm axial ct contrast abdomen pelvis, 3mm x 3mm coronal ct contrast abdomen pelvis, 3mm x 3mm sagittal ct contrast abdomen pelvis, Patient Protocol																									