RIH – CHEST THORACIC ANEURYSM REPAIR
SIEMENS DEFINITION AS20 PROTOCOL

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

Position/Landmark	Head first or feet first-Supine 2cm superior to shoulders
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 150 / 0.5 sec 1.2:1 , 24.00mm 3 / non contrast 4 contrast 7
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm
Average Tube Output	Each Helical: ctdi – 9 mGy dlp – 350 mGy.cm
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination 1 **non con chest** 5mm x 5mm I40f medium pacs 2 **lungs** 5mm x 5mm I70f very sharp pacs 3 thin chest 1.5mm x 1mm I40f medium terarecon
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination 1 **chest cta** 2mm x 2mm B30f medium smooth pacs 2 **coronal chest cta** 5mm x 5mm B30f medium smooth pacs 3 thin chest 1.5mm x 1mm B30f medium smooth terarecon
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination 1 **delayed chest** 2mm x 2mm B30f medium smooth pacs 2 **coronal delayed** 5mm x 5mm B30f medium smooth pacs 3 thin chest 1.5mm x 1mm B30f medium smooth terarecon
Scan Start / End Locations **DFOV**	1cm superior to lung apices mid kidney 38cm decrease appropriately
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350) / 4mL per second
Scan Delay	Bolus Tracking at the aortic arch
2D/3D Technique Used	Workstream 4D mpr of 5mm x 5mm **coronal chest** series of the arterial and delayed phases mip mode, auto-transferred to PACS.
Comments: Recon 3 is a thin helical volume of the chest that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 5mm x 5mm axial non con chest, 5mm x 5mm axial non con lungs, 2mm x 2mm axial arterial chest, 5mm x 5mm coronal arterial chest, 2mm x 2mm axial delayed chest, 5mm x 5mm coronal delayed chest, Patient Protocol