RIH – IV CONTRAST NECK CHEST ABDOMEN PELVIS
SIEMENS DEFINITION AS+ PROTOCOL

Indications - mass, lymphoma, adenopathy, mets, abscess.

Position/Landmark	Head first or feet first-Supine 1cm superior to skull vertex
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**	Neck: Care kV 120/Care Dose4D 100/0.5sec; .8:1 , 32.00mm; 3 / 7 Chest Abd Pelvis: Care kV 120/Care Dose4D 210/0.5sec; .8:1 , 32.00mm; 3 / 6
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm (128 x .6mm)
Average Tube Output	First Helical: ctdi – 9.7mGy, dlp – 305.6 mGy.cm Second Helical: ctdi – 11.0mGy, dlp – 856 mGy.cm
First Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon 1: body part **axial iv neck**; thickness/spacing 3mm x 3mm; algorithm I40f medium; recon destination pacs recon 2: body part **coronal iv neck**; thickness/spacing 3mm x 3mm; algorithm I40f medium; recon destination pacs recon 3: body part thin neck; thickness/spacing .75mm x .7mm; algorithm I40f medium; recon destination terarecon
Second Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon 1: body part axial chest; thickness/spacing 5mm x 5mm; algorithm I40f medium; recon destination planning recon 2: body part axial abd pelvis; thickness/spacing 5mm x 5mm; algorithm I40f medium; recon destination planning recon 3: body part **axial chest abd pelvis**; thickness/spacing 5mm x 5mm; algorithm I40f medium; recon destination pacs recon 4: body part **coronal chest abd pelvis**; thickness/spacing 5mm x 5mm; algorithm I40f medium; recon destination pacs recon 5: body part thin chest abd pelvis; thickness/spacing .75mm x .7mm; algorithm I40f medium; recon destination terarecon recon 6: body part **lungs**; thickness/spacing 5mm x 5mm; algorithm I70f very sharp; recon destination pacs
Scan Start / End Locations **DFOV**	neck: external auditory meatus – aortic arch chest abd pelvis: 1cm superior to lung apices – lesser trochanters 18cm decrease appropriately 38cm
IV Contrast Volume / Type / Rate	30mL Iohexol (Omnipaque 300) followed by 40mL of saline prior to scouts then 5 minute delay then 100mL Iohexol (Omnipaque 300) , 3mL/sec When oral contrast is prescribed, refer to the appropriate oral contrast agent's preparation and procedure guide.
Scan Delay	30 seconds
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm **coronal neck** series, auto-transferred to PACS. Workstream 4D mpr of 5mm x 5mm **coronal chest abd pelvis** series, auto-transferred to PACS.
Comments: Recons 1 and 2 of the chest abdomen pelvis are for planning only. This is needed to apply X-Care to only the chest; while keeping the chest abdomen and pelvis in a single volume. Recon 3 is a thin helical volume of the neck that is archived to the TeraRecon server. Recon 5 is a thin helical volume of the chest abd pelvis that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 3mm x 3mm neck, 3mm x 3mm coronal neck, 5mm x 5mm axial chest abd pelvis, 5mm x 5mm coronal chest abd pelvis, 5mm x 5mm axial lungs, Patient Protocol

updated Jan 23, 2017