RIH – PEDI IV CONTRAST NECK CHEST
SIEMENS DEFINITION AS20 PROTOCOL

Indications - mass, lymphoma, adenopathy, mets.

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 115/1sec; .8:1 , 16.00mm; 3 / 7 Chest: Care kV 100/Care Dose4D 120/0.5sec; .6:1 , 12.00mm; 3 / 6
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm
Average Tube Output	First Helical: ctdi – 4.5mGy, dlp – 151 mGy.cm Second Helical: ctdi – 5.0mGy, dlp – 156 mGy.cm
First Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination 1 **axial iv neck** 3mm x 3mm I40f medium pacs 2 **coronal iv neck** 3mm x 3mm I40f medium pacs 3 thin neck 1.5mm x 1mm I40f medium terarecon
Second Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination 1 **chest** 3mm x 3mm I40f medium pacs 2 **lungs** 3mm x 3mm I70f very sharp pacs 3 **coronal chest** 3mm x 3mm I40f medium pacs 4 **sagittal chest** 3mm x 3mm I40f medium pacs 5 thin chest 1.5mm x 1mm I40f medium terarecon
Scan Start / End Locations **DFOV**	neck: external auditory meatus; aortic arch chest: 1cm superior to lung apices; 1cm inferior to adrenal glands 18cm; 38cm decrease appropriately
IV Contrast Volume / Type / Rate	Contrast volume is 1cc per pound of body weight Omnipaque300 / 2cc per second or hand injection if necessary
Scan Delay	30 seconds or just after hand bolus is completed
2D/3D Technique Used	Workstream 4D mpr of 3mm x 3mm **coronal neck** series, auto-transferred to PACS. Workstream 4D mpr of 3mm x 3mm **coronal chest** series, auto-transferred to PACS.
Comments: 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 that is archived to the TeraRecon server.	
Images required in PACS	Topograms, 3mm x 3mm neck, 3mm x 3mm coronal neck, 3mm x 3mm axial chest, 3mm x 3mm coronal and sagittal chest, 3mm x 3mm axial lungs, Patient Protocol

updated Jan 23, 2017