RIH – PEDI IV CONTRAST NECK CHEST ABDOMEN PELVIS
SIEMENS DEFINITION AS20 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 Chest Abd Pelvis Care kV 100/Care Dose4D 115/0.5sec Care kV 120/Care Dose4D 210/0.5sec 1:1 , 20.00mm .6:1 , 12.00mm 3 / 7 3 / 6
Detector width x Rows = Beam Collimation	1.25mm x 16 = 20mm
Average Tube Output	First Helical: ctdi – 5.1mGy Second Helical: ctdi – 5.5mGy dlp – 151 mGy.cm dlp – 427 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	axial chest	5mm x 5mm	I40f medium	planning
2	axial abd pelvis	5mm x 5mm	I40f medium	planning
3	**axial chest abd pelvis**	3mm x 3mm	I40f medium	pacs
4	**coronal chest abd pelvis**	3mm x 3mm	I40f medium	pacs
5	thin chest abd pelvis	1.5mm x 1mm	I40f medium	terarecon
6	**lungs**	5mm x 5mm	I70f very sharp	pacs

Scan Start / End Locations **DFOV**	neck chest abd pelvis external auditory meatus 1cm superior to lung apices aortic arch lesser trochanters 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 When oral contrast is prescribed, refer to the appropriate oral contrast agent's preparation and procedure guide.
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 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, 3mm x 3mm coronal chest abd pelvis, 3mm x 3mm axial lungs, Patient Protocol

updated Jan 23, 2017