

 University Health™	Policy #: Rad Proc 13.13.15
SUBJECT: CT Oncology Chest/Abdomen/Pelvis Head First 5.15	Effective: 10/2013 Reviewed: 03/07/2017
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Purpose: To provide computed tomography staff with the required protocol for performing CT Oncology Chest/Abdomen/Pelvis head first.

Scope: All adult patients 18 years and older.

Clinical Indication: Pain, Neoplasm, Metastatic Disease, Staging

Patient Preparation:

Orientation: Head first

Breathing: Inspiration

Oral Contrast: Per Trauma Service 800-1000ml 90-120 minute drinking period (see proc. 6.12.1)

IV Contrast per Weight: 1ml/lb or 2ml/kg not to exceed 150ml injected @ 3ml/sec

Coverage: Lung apices through ischial tuberosities

Anatomic Reference: Sternal notch

Scan Delay: Smart prep or care bolus

Group 1: Non-contrast liver– Dome of diaphragm to iliac crest

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.8 sec Helical Full	5 27.50 1.375:1	5	Large	120	80-440 11.5	N	Standard
VCT 0.8 sec Helical Full	5 55.00 1.375:1	5	Large	120	80-600 11.5	N	Standard
AS 64 0.5 sec Helical	5 1	5	380	120	Ref MAS 250	N	Standard

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Group 2: Chest with Contrast– Lung apices through adrenal glands
Smart prep or care bolus aorta: Monitoring delay 10sec ISD 3 Threshold 50

Scan Mode	Thick Speed	Interval (mm)	SFOV	kVp	Auto mA/ Noise Index	Prep Group	Recon Type
LS 16 Helical Full 0.8 sec	5 27.50 1.375:1	5	Large	120	80-440 11.5	Smart Prep Aorta	Standard Bone
VCT Helical Full 0.8 sec	5 55.00 1.375:1	5	Large	120	80-600 11.5	Smart Prep Aorta	Standard Bone
AS 64 Helical 0.5sec	5 0.8	5	360	240	Ref mAs 250	Smart Prep Aorta	Standard Bone

Group 3: Venous Abdomen and Pelvis - Dome of diaphragm through Ischial tuberosities
Scan Delay: All prep times are relative to injection start time.

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.8 sec Helical Full	5 27.50 1.375:1	5	Large	120	80-440 11.5	70 sec.	Standard
VCT 0.8 sec Helical Full	5 55.00 1.375:1	5	Large	120	80-600 11.5	70 sec.	Standard
AS 64 0.5 sec Helical Full	5 1	5	360	120	Ref mAs 250	70 sec.	Standard

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Group 4 Five minute delays- through kidneys only

Scan Mode	Thickness Speed Pitch	Table <i>Interval</i>	SFOV	kVp	Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.8 sec Helical Full	5 27.50 1.375:1	5	Large	120	80-440 11.5	5 min.	Standard
VCT 0.8 sec Helical Full	5 55.00 1.375:1	5	Large	120	80-600 11.5	5 min.	Standard
AS 64 0.5 sec Helical Full	5 1	5	360	120	Ref mAs 250	5 min.	Standard

Algorithm: Standard. Show recon 1&2.

Reformation: Sagittal and Coronal reformations????

Network: Recon 1 (5mm) to PACS. Recon 2 (1.25) auto transmit to AWSERV.

Notes: Auto mA must be on and mA table checked prior to scanning.

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Algorithm: Recon 1= 5mm & 2 1.25mm in Standard Recon 3 - Bone
Network: Recon 1 and 2 to PACS; Recon 3 (1.25) auto transmit AWBR, AWWF, AWSERV
Reformat: Sagittal images through Chest, Abdomen, and Pelvis.
Retro Recon - Series 2: thoracic and lumbar spine per neuroradiology
Notes: Auto mA and Care Dose must be on and mA table checked prior to scanning.