Purpose: To provide computed tomography staff with the required protocol for performing CT Oncology Chest/Abdomen/Pelvis.

Scope: All adult patients 18 years and older.

Clinical Indication: Pain, Neoplasm, Metastatic Disease, Staging,
Patient Preparation:
Orientation: Feet 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**

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

Group 4 **Five minute delays- through kidneys only**

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	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 and 3 standard Show recon 2 in bone
Reformation: Sagittal and Coronal reformations through venous phase only.
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.

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, AWFW. 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.