

**PATIENT NAME:** [patient name]

**EXAM DATE:** [exam date] **AGE:** [age] **SEX:** [sex] **I.D.#:** [patient I.D.]

<b>ONCOLOGY HYPERVASC. NEOPLASM</b>	<b>CT CHEST, ABDOMEN WITH CONTRAST</b>
INDICATIONS	COMMON HYPERVASCULAR TUMORS: RENAL, MELANOMA, CARCINOID, ISLET CELL, GASTRINOMA, INSULINOMA, THYROID, CHORIOCARCINOMA, HEMANGIOPERICYTOMA
	82-0298 Consent to Contrast Material 82-0540 Pregnancy Status Form (female patients) 82-8216 Medication Reconciliation Form (outpatients)
ORAL CONTRAST	ORAL PREP - & 1 GLASS OF WATER ON TABLE BEFORE SCANNING
IV CONTRAST	3.5 - 4.0 CC/SEC FOR 100-150 CC/NS 50 CC PATIENTS UNDER 150 LBS USE 100 CC
POSITIONING	SUPINE; FEET FIRST; ARMS UP & OUT OF WAY; CENTER AT STERNAL NOTCH, INSPIRATION BREATH-HOLD
SCOUT	S 60 / I 500, 120 KVP @ 10 MA, AP & LAT
TECHNIQUE -16 SLICE ARTERIAL-MELANOMA & CARCINOID	HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA - 40% ASIR SFOV - LG BODY/DFOV - (FIT TO ANATOMY)  SMART PREP AT CENTER OF AORTA 150HU SCAN FROM LUNG APICES TO ILIAC CREST
TECHNIQUE 16 SLICE - ARTERIAL - RENAL ETC	HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA - 40% ASIR SFOV - LG BODY/DFOV - (FIT TO ANATOMY)  SMART PREP AT CENTER OF AORTA 150HU SCAN FROM LUNG APICES THROUGH LIVER
TECHNIQUE - 16 SLICE PORTAL VENOUS	HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA - 40% ASIR SFOV - LG BODY/DFOV - (FIT TO ANATOMY)  DELAY 20 SEC SCAN THRU LIVER
TECHNIQUE - 64 SLICE	HELICAL; 2.5 MM , STD W400/L40

<p>ARTERIAL-MELANOMA &amp; CARCINOID</p>	<p>KVP 120 @ AUTO/SMART MA 40% ASIR, SFOV LG BODY/DFOV (FIT TO ANATOMY)</p> <p>SMART PREP AT CENTER OF AORTA 150 HU/NO GREATER THN 50 SEC DELAY SCAN FROM LUNG APICES TO ILIAC CREST</p>
<p>TECHNIQUE - 64 SLICE - ARTEIRAL - RENAL ECT</p>	<p>HELICAL; 2.5 MM , STD W400/L40 KVP 120 @ AUTO/SMART MA 40% ASIR SFOV-LG BODY/DFOV (FIT TO ANATOMY)</p> <p>DELAY 70 SEC FROM START OF INJECTION SCAN FROM LUNG APICES THROUGH LIVER</p>
<p>TECHNIUQE - 64 SLICE PORTAL VENOUS</p>	<p>HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA 40% ASIR SFOV-LG BODY/DFOV (FIT TO ANATOMY)</p> <p>DELAY 70 SEC FROM START OF INJECTION SCAN THRU LIVER</p>
<p>TECHNIQUE – 128 SLICE ARTERIAL MELANOMA &amp; CARINOID</p>	<p>HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA 40% ASIR, SFOV LG BODY/DFOV (FIT TO ANATOMY)</p> <p>SMART PREP AT CENTER OF AORTA 150 HU/NO GREATER THN 50 SEC DELAY SCAN FROM LUNG APICES TO ILIAC CREST</p>
<p>TECHNIQUE – 128 SLICE ARTERIAL- RENAL, ECT</p>	<p>HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA 40% ASIR SFOV-LG BODY/DFOV (FIT TO ANATOMY)</p> <p>DELAY 70 SEC FROM START OF INJECTION SCAN FROM LUNG APICES THRU LIVER</p>
<p>TECHNIUQE – 128 SLICE PORTAL VENOUS</p>	<p>HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA 40% ASIR SFOV-LG BODY/DFOV (FIT TO ANATOMY)</p> <p>DELAY 70 SEC FROM START OF INJECTION SCAN THRU LIVER</p>
<p>TECHNIQUE - 16/64/128 SLICE DELAY KIDNEYS</p>	<p>HELICAL; 5.0 MM, STD W400/L40 KVP 120 @ 125 MA - 40% ASIR SFOV - LG BODY/DFOV - (FIT TO ANATOMY)</p> <p>DELAY 5 MINUTES, SCAN THROUGH THE KIDNEYS</p>

	<p>AND BLADDER</p> <p><b><i>ONLY FOR:</i></b> BLADDER CANCER, TRANSITIONAL CELL CANCER, URETERAL CANCER, NEW RENAL LESION</p> <p><b><i>FOR PROSTATE CANCER,</i></b> SCAN THROUGH BLADDER ONLY</p>
RECONS	<p>16 /128 SLICE: 1.25 MM/INT 0.65 MM, STD W400/L40 (DMPR CHEST &amp; ABD VENOUS PHASE)</p> <p><b>64 SLICE-</b> 0.625 MM, STD W400/L40 (DMPR)</p> <p>2.5 MM, LUNG W1400/L600</p> <p>1.25 MM, STD W1400/L-600</p>
REFORMATIONS	<p>CHEST &amp; ABD (VENOUS SERIES &amp; ARTERIAL SERIES)- CORONAL &amp; SAGITTAL STD AVG</p> <p>2.5MM/2.5MM, W400/L40</p> <p>CHEST- AX MIP STD, 6MM X 3MM, W1400/L-600</p>
PACS	<p>SCOUT</p> <p>2.5 MM – ART/VEN</p> <p>2.5 MM - LUNG</p> <p>ABD COR &amp; SAG – ART &amp; VEN</p> <p>CHEST COR &amp; SAG &amp; AX LUNG MIP</p>
CHARGE	CHEST/ABDOMEN WITH CONTRAST
REMARKS	

<b>ONCOLOGY HYPOVASCULAR-(NON-HYPERVASCULAR) NEOPLASM</b>	<b>CT CHEST, ABDOMEN WITH CONTRAST</b>
INDICATIONS	USE HYPERVASCULAR PROTOCOL UNLESS TUMORIS ON HYPOVASCULAR LIST AS FOLLOWS: GIST, LUNG, COLORECTAL TUMORS, BREAST LESIONS. SARCOMA & MERKEL CELL
CONSENT FORMS	82-0298 Consent to Contrast Material 82-0540 Pregnancy Status Form (female patients) 82-8216 Medication Reconciliation Form (outpatients)
ORAL CONTRAST	ORAL PREP - & 1 GLASS OF WATER ON TABLE BEFORE SCANNING
IV CONTRAST	2.5 - 3.0 CC/SEC FOR 100-150 CC/NS 50 CC PATIENTS UNDER 150 LBS USE 100 CC
POSITIONING	SUPINE; FEET FIRST; ARMS UP & OUT OF WAY; CENTER AT STERNAL NOTCH, INSPIRATION BREATH-HOLD
SCOUT	S 60 / I 500, 120 KVP @ 10 MA, AP & LAT
TECHNIQUE - CHEST	HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA 40% ASIR SFOV - LG BODY/DFOV - (FIT TO ANATOMY)  SMART PREP ON AORTA AT LEVEL OF HEART 100 HU (NO GREATER THAN 50 SEC DELAY) SCAN FROM LUNG APICES TO LUNG BASES
TECHNIQUE - 16 SLICE PORTAL VENOUS	HELICAL; 2.5 MM, STD W400/L40 KVP 120 @ AUTO/SMART MA - 40% ASIR SFOV - LG BODY/DFOV - (FIT TO ANATOMY)  DELAY 30 SEC SCAN TOP OF LIVER TO ILIAC CREST
TECHNIQUE - 64 SLICE 1ST GROUP CHEST	HELICAL; 2.5 MM KVP 120 @ AUTO/SMART MA 40% ASIR, STD W400/L40 SFOV LG BODY/DFOV (FIT TO ANATOMY)

	<p>SMART PREP AT AORTA AT LEVEL OF HEART  100 HU/NO GREATER THAN 50 SEC DELAY  SCAN THROUGH LUNGS</p>
<p>TECHNIQUE - <b>64 SLICE</b>  2ND GROUP-PORTAL VENOUS</p>	<p>HELICAL; 2.5 MM, STD W400/L40  KVP 120 @ AUTO/SMART MA 40% ASIR,  SFOV LG BODY/DFOV (FIT TO ANATOMY)</p> <p>DELAY 70 SEC FROM START OF INJECTION  SCAN TOP OF LIVER TO ILIAC CREST</p>
<p>TECHNIQUE- 128 SLICE  CHEST</p>	<p>HELICAL; 2.5 MM, STD W400/L40  KVP 120 @ AUTO/SMART MA 40% ASIR,  SFOV LG BODY/DFOV (FIT TO ANATOMY)</p> <p>SMART PREP AT AORTA AT LEVEL OF HEART  100 HU/NO GREATER THAN 50 SEC DELAY  SCAN THROUGH LUNGS</p>
<p>TECHNIQUE- 128 SLICE  PORTAL VENOUS</p>	<p>HELICAL; 2.5 MM, STD W400/L40  KVP 120 @ AUTO/SMART MA 40% ASIR,  SFOV LG BODY/DFOV (FIT TO ANATOMY)  DELAY 70 SEC FROM START OF INJECTION  SCAN TOP OF LIVER TO ILIAC CREST</p>
<p>TECNHIQUE -  DELAYED</p>	<p>HELICAL; 5.0 MM, STD W400/L40  KVP 120 @ 125 MA - 40% ASIR  SFOV - LG BODY/DFOV (FIT TO ANATOMY)</p> <p>DELAY 5 MINUTES, SCAN THROUGH THE  KIDNEYS  AND BLADDER  <b><u>ONLY FOR:</u></b> BLADDER CANCER,  TRANSITIONAL  CELL CANCER, URETERAL CANCER, NEW  RENAL LESION  <b><u>FOR PROSTATE CANCER,</u></b> SCAN THROUGH  BLADDER  ONLY</p>
<p>RECONS</p>	<p>16 /128 SLICE: 1.25 MM/INT 0.65 MM, STD  W400/L40 (DMPR CHEST &amp; ABD PELVIS)  <b>64 SLICE</b>-2.5 MM, LUNG W1400/L600-CHEST  SERIES</p>

	2.5 MM, LUNG W1400/L-600 1.25 MM, STD W1400/-600
REFORMATIONS	CHEST & ABD/PEL -CORONAL & SAGITTAL AVG 2.5MM/2.5MM, W400/L40  CHEST- AX MIP STD, 6MM X 3MM, W1400/L-600
PACS	SCOUT 2.5 MM – CHEST/ABD W 2.5 MM - LUNG ABD COR & ABD SAG CHEST COR & SAG & AX LUNG MIP
CHARGE	CHEST/ABDOMEN WITH CONTRAST
REMARKS	

CT PREPS	All CT contrast patients should be NPO for 4 hours before their exam. All patients should drink plenty of water before their exam.
Routine Abdomen and Pelvis	<p><b>For:</b> Diverticulitis, pain, liver mass/cyst, liver evaluations, pancreatitis, appendicitis, elevated labs or cancer (not renal, GIST, stromal, or pancreas).</p> <p><b>Outpatients:</b> Patients are to receive one 50 ml bottle of Omni 140, consent form, and prep sheet. Patient to mix Omni 140 50 cc into 32 oz water Drink half the mixture 1.5 hours prior to exam. Drink last half of mixture 45 minutes prior to exam.</p> <p><b>Inpatients:</b> Mix Omni 140 50 cc into 32 oz of water Drink half of mixture two hours prior to exam. Drink last half of mixture one hour prior to exam.</p> <p><b>ER patients:</b> only if doctor requests Mix Omni 140 50 cc into 32 oz of water Drink half of mixture an hour prior to exam. Drink last half of mixture 30 minutes prior to exam.</p>
Abdomen CT's	<p><b>For:</b> Stomach (stromal) cancer, small bowel evaluation, GIST, stomach mass, Crohn's, CT enterography.</p> <p>Patients are to receive Volumen. These patients should arrive 1.5 hours early to drink their prep. If they are to take Volumen home, they will need 3 bottles, consent form, and</p>

	<p>prep sheet with instructions:          Drink one Volumen every 20 minutes for the hour before their exam.</p>
<b>Gastric Bypass Protocol</b>	<p><b>For:</b> Patients who have had gastric bypass.          Patients to arrive 30 minutes before scheduled exam and to drink 8 oz mixture of Omni 140 and water. The second dose (8oz) of mixture will be given just before getting on the table.</p>
<b>Pancreas Evaluations</b>	<p><b>For:</b> Mass, cysts, recurrent pancreatitis, history of pancreatitis who has had a routine CT abdomen already done.          Patient to drink 1/2 gallon of water before exam.</p>
<b>All Triphase Renal/ Dual Adrenal/Dual Liver</b>	<p><b>For:</b> Cancer (renal/adrenal/liver), mass, cyst, and/or cancer.          Water prep          No oral contrast unless doctor requests due to research protocol for renal cancer. Research protocol with oral contrast must be stated on order.          Patients are to start drinking at least 1/2 gallon of water the hour before their exam.</p>
<b>UT/Urogram/Hernia/ Abdomen W/WO Pelvis With, (GI vs Stones)</b>	<p><b>For:</b> Stone, hernia, hematuria.          Water prep</p>

<b>Tumor Type</b>	<b>Common Tumors</b>	<b>C/A</b>	<b>C/A/P</b>	<b>A/P</b>
<b>Hypovascular</b>  *ROI- in aorta (Chest) *ROI- liver (Abd/Pelvis)	<b>Lung</b> <b>Colorectal</b> <b>Breast/Ovarian/Uterine</b> <b>Prostate/Testicular</b> <b>GIST/Stomach/Sm Bowel</b> <b>Sarcoma</b> <b>Merkel Cell</b> <b>Cholangiocarcinoma</b> <b>Etc...</b>  <i>ORAL PREP</i>	Arterial Chest Short Delay PV Abdomen LD delay A-bladder/transitional cell/ureteral cancer	Arterial Chest Short Delay PV A/P LD delay A/P-bladder/transitional cell/ureteral cancer Prostate cancer-bladder only	PV A/P LD delay A/P-bladder/transitional cell/ureteral cancer Prostate cancer-bladder only
<b>Hypervascular</b>  *ROI- in pulmonary artery(Chest) *ROI- in aorta (Abd/Pelvis)	<b>Melanoma</b> <b>Carcinoid</b> <b>Neuroendocrine</b>  <i>ORAL PREP</i>	Arterial C/A PV Liver Only	Arterial C/A/P PV Liver Only	Arterial A/P PV Liver Only

<b>Hypervascular</b> <b>*ROI- in pulmonary artery(Chest)</b> <b>*ROI- in aorta (Abd/Pelvis)</b>	<b>Renal Islet Cell</b> <b>Gastrinoma</b> <b>Insulinoma</b> <b>Choriocarcinoma</b> <b>Thyroid</b>  <i>ORAL PREP</i>	Arterial C/Liver PV Abdomen	Arterial C/Liver PV A/P	Arterial Liver only PV A/P
	<b>Pancreas</b> <b>Pancreatic neuroendocrine</b>  Water prep	Arterial C Pancreas protocol: late art pancreas PV Abd	Arterial C Pancreas protocol: late art pancreas PV A/P	Pancreas protocol 4cc/sec inject
	<b>Hepatocellular CA- water prep</b> “Liver Cancer” “Hep C & Cirrhosis w/ mass seen” Water prep	Chest rarely ordered Art Liver PV C/A Delay Liver	Chest rarely ordered Art Liver PV C/A/P Delay Liver	Multiphase Liver protocol (often w/o P) 4 -5 cc/sec inject for 150cc Delay Liver

**Note:**

**LD- low dose    C-chest    A-abdomen    P – pelvis    PV- portal venous phase**  
**Art- arterial phase    Hypovascular- Non hypervascular**