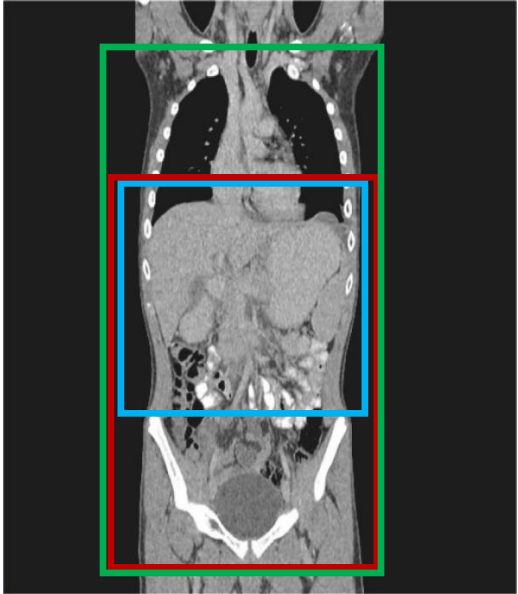


CT Multiphase liver, CT Multiphase Liver with Pelvis, and CT Multiphase Liver CAP (Chest, Abdomen, and Pelvis)

Position/Landmark	Supine Feet First / Above Liver
Scout	Top to Bottom Dual Scout (with arms up) 
Scan coverage	Above the dome of liver to iliac crest. Review non con scan to ensure all of the liver is included.
Respiratory Phase	Inspiratory
Scan Type	Helical
IV access	18g or 20g
IV Contrast	125ml OMNI 350 @ 4.0 or 5.0mL/sec
Contrast Delay	Bolus Tracked: Trigger Scan from HU. • Each scanner has a different HU trigger. • Put tracker Mid-Pancreas on the Descending Aorta.
PO Prep	None
Reason For Exam	Evaluation and characterization of focal liver lesions

Scan Settings - CT Multiphase Liver and CT Multiphase Liver with Pelvis (Same for each Phase unless noted otherwise)

	Siemens SOMATOM Force	Philips iCT/Ingenuity	Canon Aquilion ONE Vision
kV Setting:	CAREkV Ref kV= 120	120	120

mA/mAs/TCM Setting:	CAREdDose4D QRM = 147, Dose Slider Settings at 3 for non con, 7 for art and ven, and delay phases	DoseRight DRI = 19, Liver DRI Boost +3	SureExposure3D (SD=11.5)
Iterative Reconstruction Setting:	Admire Strength 3	iDose 3	AIDR 3D Standard

Scan and Recon Instructions - CT Multiphase liver	
1.	Scout top of Diaphragm to Iliac Crest
2.	NON-CONTRAST Diaphragm to Iliac Crest (Blue box) - Axial 3mm x 1.5mm (soft tissue)
3.	Bolus tracker Mid-Liver in Descending Aorta. - 125ml of contrast @ 4ml/sec
4.	ARTERIAL Diaphragm to Iliac Crest (3mm x 1.5mm) (Blue box) - Axial 3mm x 1.5mm (soft tissue) - Coronal 5mm x 2.5mm (soft tissue) - Sagittal 5mm x 2.5mm (soft tissue)
5.	VENOUS delay 55 seconds after bolus tracker. Diaphragm to Iliac Crest. (Blue box) - Axial 3mm x 1.5mm (soft tissue) - Coronal 5mm x 2.5mm (soft tissue) - Sagittal 5mm x 2.5mm (soft tissue)
6.	4 minute delay Diaphragm to Iliac Crest (Blue box) - Axial 3mm x 1.5mm (soft tissue) (Contrast timer on injector will show 4 minutes since the start of the injection)

Scan and Recon Instructions - CT Multiphase Liver with Pelvis	
1.	Scout top of Diaphragm to Lesser Trochanter
2.	NON-CONTRAST Diaphragm to Iliac Crest (Blue box) - Axial 3mm x 1.5mm (soft tissue)
3.	Bolus tracker Mid-Liver in Descending Aorta. - 125ml of contrast @ 4ml/sec.
4.	ARTERIAL Diaphragm to Iliac Crest (3mm x 1.5mm) (Blue box) - Axial 3mm x 1.5mm (soft tissue) - Coronal 5mm x 2.5mm (soft tissue) - Sagittal 5mm x 2.5mm (soft tissue)

5.	Venous delay 90 seconds after bolus tracker. Diaphragm to lesser trochanter. (Red box) - Axial 3mm x 1.5mm (soft tissue) - Coronal 5mm x 2.5mm (soft tissue) - Sagittal 5mm x 2.5mm (soft tissue) - Quick tip – Portal Pelvis
6.	4 minute delay Diaphragm to Iliac Crest (Blue box) - Axial 3mm x 1.5mm (soft tissue) (Contrast timer on injector will show 4 minutes since the start of the injection)
Quick tip 	For the CT Multiphase Liver with Pelvis remember scan Short, Short, Long (Portal Pelvis), Short. - Abdomen, Abdomen, Abdomen/Pelvis, Abdomen

Scan and Recon Instructions - CT Multiphase Liver CAP (Chest, Abdomen, and Pelvis)	
1.	Scout top of Lungs to Lesser Trochanter
2.	NON-CONTRAST Diaphragm to Iliac Crest (Blue box) - Axial 3mm x 1.5mm (soft tissue)
3.	Bolus tracker Mid-Pancreas in Descending Aorta. - 125ml of contrast @ 4ml/sec.
4.	ARTERIAL Diaphragm to Iliac Crest 3mm x 1.5mm (Blue box) - Axial 3mm x 1.5mm (soft tissue) - Coronal 5mm x 2.5mm (soft tissue) - Sagittal 5mm x 2.5mm (soft tissue)
5.	Venous delay 55 seconds after bolus tracker. Lung Apices to Lesser Trochanter. (3mm x 1.5mm) (Green box) - Make lung windows - Check accession numbers for Lung views going to <u>Chest</u> and abdomen views going to <u>Body</u>. - Axial 3mm x 1.5mm (soft tissue) - Coronal 5mm x 2.5mm (soft tissue) - Sagittal 5mm x 2.5mm (soft tissue) - Axial 3mm x 1.5mm (lung) - Axial 3mm x 1.5mm (soft tissue) - Coronal 3mm x 1.5mm (lung) - Coronal 3mm x 1.5mm (soft tissue) - Sagittal 3mm x 1.5mm (soft tissue)
6.	4 minute delay Diaphragm to Iliac Crest (Blue box) - Axial 3mm x 1.5mm (soft tissue)

	(Contrast timer on injector will show 4 minutes since the start of the injection)
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