

**Abdomen Liver**

Siemens Flash

Application Examples: evaluate liver: hemangioma, tumor

Oral Contrast	Yes
IV Contrast / Volume	Omnipaque 350 / P3T
Injection Rate	P3T

*Technical Factors*

<b>Unenhanced - Arterial – Venous – Delayed</b>	
Detector Collimator	Acq 128 x 0.6 mm
Care kV	On / 120 kV
Care Dose 4D	On / 150 mAs
Rotation Time (seconds)	0.5
Pitch	0.6
Typical CTDIvol	10.14 mGy ± 50%

<b>Arterial Phase</b>	
Care Bolus ROI Location / HU	Abdominal Aorta / 150
Monitoring Delay	20 seconds
Cycle Time	1.5 seconds
Scan Delay	<b>10 seconds</b>
Breath Hold	Inspiration

<b>Portal Venous Phase</b>	
Scan Delay	*Adjust to scan at approximately 65 seconds
Breath Hold	Inspiration

<b>Delayed</b>	
Scan Delay	300 seconds
Breath Hold	Inspiration

Topogram: Lateral &amp; AP, 512 mm

<b>Unenhanced</b>	<b>Recon Type</b>	<b>Width / Increment</b>	<b>Algorithm</b>	<b>Safire</b>	<b>Window</b>	<b>Series Description</b>	<b>Networking</b>	<b>Post Processing</b>
<b>Recon 1</b>	Axial	5 x 5	I41f	2	Abdomen	AXIAL WITHOUT	PACS	None

<b>Arterial</b>	<b>Recon Type</b>	<b>Width / Increment</b>	<b>Algorithm</b>	<b>Safire</b>	<b>Window</b>	<b>Series Description</b>	<b>Networking</b>	<b>Post Processing</b>
<b>Recon 1</b>	Axial	3 x 3	I41f	2	Abdomen	AXIAL ARTERIAL	PACS	None
<b>Recon2</b>	3D:COR	3 x 3	I30f	2	Abdomen	COR ART	PACS	Coronal MPR
<b>Recon 3</b>	3D:SAG	3 x 3	I30f	2	Abdomen	SAG ART	PACS	Sagittal MPR
<b>Recon 4</b>	Axial	0.6 x 0.6	I31f	2	Angio	AXIAL ARTERIAL 0.6 STND	TR & PACS	None

<b>Venous</b>	<b>Recon Type</b>	<b>Width / Increment</b>	<b>Algorithm</b>	<b>Safire</b>	<b>Window</b>	<b>Series Description</b>	<b>Networking</b>	<b>Post Processing</b>
<b>Recon 1</b>	Axial	5 x 5	I41f	2	Abdomen	AXIAL VENOUS	PACS	None
<b>Recon 2</b>	3D:COR	3 x 3	I41f	2	Abdomen	COR	PACS	Coronal MPR
<b>Recon 3</b>	3D:SAG	3 x 3	I41f	2	Abdomen	SAG	PACS	Sagittal MPR
<b>Recon 4</b>	Axial	0.6 x 0.6	I31f	2	Abdomen	AXIAL VENOUS 0.6 STND	TeraRecon	None

<b>Delayed</b>	<b>Recon Type</b>	<b>Width / Increment</b>	<b>Algorithm</b>	<b>Safire</b>	<b>Window</b>	<b>Series Description</b>	<b>Networking</b>	<b>Post Processing</b>
<b>Recon 1</b>	Axial	5 x 5	I41f	2	Abdomen	AXIAL DELAYED	PACS	None

This protocol is used to evaluate the liver. All four phases are built in this protocol. Delete phases that are not needed.

**Scan Instructions:** Adjust PV phase to include pelvis, if requested. All other phases include liver or requested area of interest only.

**Recons and Reformations:** Adjust FoV to fit body contour.