Gundersen Health System

Abdomen Liver

Siemens go.All

Application Examples: evaluate liver: hemangioma, tumor

Oral Contrast	Yes with pelvis, No for abdomen ONLY
IV Contrast / Volume	Omnipaque 350 / P3T
Injection Rate	P3T

Technical Factors

Unenhanced - Arterial – Venous – Delayed	
Detector Collimator	Acq 32 x 0.7 mm
Care kV	On / 120 kV
Care Dose 4D	On / 110 mAs
Rotation Time (seconds)	0.5
Pitch	0.8
Typical CTDIvol	10.34 mGy ± 50%

Arterial Phase	
Care Bolus ROI Location / HU	Abdominal Aorta / 150
Monitoring Delay	20 seconds
Cycle Time	1 second
Scan Delay	**10 seconds**
Breath Hold	Inspiration

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

Delayed	
Scan Delay	300 seconds
Breath Hold	Inspiration

Topogram: Lateral & AP, 512 mm

Unenhanced	Recon Type	Width / Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	5 x 5	Br40	2	Abdomen	AXIAL WITHOUT	PACS	None

Arterial	Recon Type	Width / Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	3 x 3	Br40	2	Abdomen	AXIAL ARTERIAL	PACS	None
Recon2	3D:COR	3 x 3	Br40	2	Abdomen	COR ART	PACS	Coronal MPR
Recon 3	3D:SAG	3 x 3	Br40	2	Abdomen	SAG ART	PACS	Sagittal MPR
Recon 4	Axial	0.6 x 0.6	Br36	2	Angio	AXIAL ARTERIAL 0.6 STND	TR & PACS	None

Venous	Recon Type	Width / Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	3 x 3	Br40	2	Abdomen	AXIAL VENOUS	PACS	None
Recon 2	3D:COR	3 x 3	Br40	2	Abdomen	COR	PACS	Coronal MPR
Recon 3	3D:SAG	3 x 3	Br40	2	Abdomen	SAG	PACS	Sagittal MPR

Delayed	Recon Type	Width / Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	5 x 5	Br40	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: First scan liver unenhanced. Take pre-monitoring slice at top of the arterial scan range and place ROI in aorta. Add the (1) monitoring delay, (2) arterial scan delay, and (3) arterial scan time to determine the scan delay for the Portal Venous phase—Set to equal 60-65 seconds from the start of injection. Adjust PV phase to include **entire upper abdomen or through pelvis,** if requested. All other phases include liver or requested area of interest only.

Recons and Reformations: Adjust FoV to fit body contour.