

CT Liver Mass

GE- 6007

Maximum CTDI 75

Indication: Liver Mass, Hemangioma, Cirrhosis, Hepatocellular carcinoma (HCC), Hypervascular mets

PT Prep: NO Oral

IV contrast – Yes (follow IV contrast administration guidelines)

20g to 18 g peripheral IV needed for contrast administration

- Hepatocellular Carcinoma
- Focal Nodular Hyperplasia (FNH)
- Liver Adenoma
- Cirrhosis
- Hepatitis C
- Jaundice (not restricted jaundice)
- Liver Tumor as a general diagnosis

Series 1: Scouts AP & LAT – Supine “O” at Xiphoid Process S20 to I400

Series 2: **Unenhanced** – Scan from Diaphragm through Liver

	128 slice	32 slice w/ASIR	64 slice	64 slice w/ASIR 30%
Noise Level	15.86	16.97	15.86	11.60
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40 mm	40 mm	40 mm	40mm
Kv/mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA	Auto mA – if large pt. use manual & maximize mA
Scan Type	Helical Full 0.5 sec	Helical Full 0.5 sec	Helical Full 0.5sec	Helical Full 0.5 sec

Series 3: **Enhanced** Arterial Phase – 100 cc of IV contrast @ 3cc/sec
(Contrast dose may be adjusted based on **GFR**).

Original Date: 4-8-04

Revised Date: 11-9-04, 1-11-10, 9-16-10 12/8/10 04/17/13 12/15/2015 2/27/18

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Approved by: Dr. Reh fuss, MCR

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Maximum CTDI 75**Delay: 35 seconds** – Scan from diaphragm through Liver

	128 slice	32 slice w/ASIR	64 slice	64 slice w/ASIR 30%
Noise Level	15.86	15.86	15.86	11.60
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40 mm	40 mm	40 mm	40mm
Kv/mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA
Scan Type	Helical Full 0.5 sec	Helical Full 0.5 sec	Helical Full 0.5sec	Helical Full 0.5 sec

Series 4:

Portal Venous Phase**Delay: 70 seconds** – Scan from diaphragm through Liver

	128 slice	32 slice w/ASIR	64 slice	64 slice w/ASIR 30%
Noise Level	15.86	15.86	15.86	11.60
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40 mm	40 mm	40 mm	40mm
Kv/mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA
Scan Type	Helical Full 0.7 sec	Helical Full 0.5 sec	Helical Full 0.5sec	Helical Full 0.5 sec

Series 5:

ONLY – For KNOWN Cholangiocarcinoma)**Delay: 15 minutes Post injection** – Scan from diaphragm through Liver

	128 slice	32 slice w/ASIR	64 slice	64 slice w/ASIR 30%
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Maximum CTDI 75

Noise Level	15.86	16.36	15.86	11.60
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	0.984:1	0.984:1	0.984:1	0.984:1
Speed mm/rotation	39.37	39.37	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40 mm	40 mm	40 mm	40mm
Kv/mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA
Scan Type	Helical Full 0.5 sec	Helical Full 0.5 sec	Helical Full 0.5sec	Helical Full 0.5 sec

Networking/ PACs: Send scouts
Send series 2-4 Standard Soft Tissue Algorithm.(Send series 5 if done)
Send series 4 in Bone Algorithm 5 x 5
Recon and send series 3 lung images in Lung Algorithm 5 x 5
Recon and send MPR of all series in Standard Algorithm
Record DLP in PACS comments