

Liver 3 phase 64 Toshiba

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|-------------------------------------|--|-----------------|-------------------|-----------------------------|
| Indications | For New liver lesion, follow up-hcc, adenoma, FNH, hypervascular mets, cholangiocarcinoma | | | |
| Diagnostic Task | Detect masses, abscess | | | |
| Scan mode | Helical | | | |
| Position/Landmark | Head or feet first-Supine | | | |
| Topogram | AP mA50 kV120 /Lat mA 70 kV120 | | | |
| kVp/Reference mass | 120kV average pt 135kV XL pt- Sure Exp 3D(120-550) | | | |
| Rotation time/pitch | 0.5\0.828 | | | |
| Detector Configuration | 64x0.5 | | | |
| Table Speed/Increment | 26.5 | | | |
| Dose reduction | Sure Exp 3D | | | |
| Allowed CTDI ranges* | 7mGy-50mGy | | | |
| XR29 Dose Notification value | 50mGy | | | |
| Helical Set #1 40sec | recon | body part | thickness spacing | recon algorithm destination |
| | 1 | abdomen | 2mmx 2mm | standard pacs |
| | 2 | sag abdomen | 2mmx2mm | standard pacs |
| | 3 | coronal abdomen | 2mmx2mm | standard pacs |
| Helical Set #2 70sec | recon | body part | thickness spacing | recon algorithm destination |
| | 1 | abdomen | 2mmx 2mm | standard pacs |
| | 2 | sag abdomen | 2mmx2mm | standard pacs |
| | 3 | coronal abdomen | 2mmx2mm | standard pacs |
| Helical Set #2 5min | recon | body part | thickness spacing | recon algorithm destination |
| | 1 | abdomen | 2mmx 2mm | standard pacs |
| | 2 | sag abdomen | 2mmx2mm | standard pacs |
| | 3 | coronal abdomen | 2mmx2mm | standard pacs |
| Scan start/end location | 1cm superior to diaphragm | | | |
| for both helical sets | iliac crest | | | |
| IV contrast volume/rate | 75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 4cc/sec | | | |
| Scan delay | Performed as directed by a supervising radiologist | | | |
| | 40sec-arterial/ 70sec-venous/5min | | | |
| | Approximate Values for CTDIvol | | | |
| | Patient size | weight(kg) | weight(lbs) | CTDIvol(mGy) |
| | SMALL | 50-70 | 110-155 | 10-17 |
| | AVERAGE | 70-90 | 155-200 | 15-25 |
| | LARGE | 90-120 | 200-265 | 22-35 |
| NOTE* | *The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless approved by a radiologist. | | | |

