

Renal mass 64 Toshiba

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|--|--|-----------------|-------------------|-----------------------------|
| Indications | Renal mass seen on other imaging, flank pain | | | |
| Diagnostic Task | Detect masses of kidney | | | |
| 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 non contrast | recon | body part | thickness spacing | recon algorithm destination |
| | 1 | abdomen | 2mmx 2mm | standard pacs |
| Helical Set #2 40 sec delay | 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 #3 120sec | 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 all helical sets | iliac crest | | | |
| IV contrast volume/rate | 75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 4cc/sec | | | |
| | Performed as directed by a supervising radiologist | | | |
| Scan delay | none/40 sec/120sec delay | | | |
| | 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. | | | |

