

ROUTINE CHEST WITHOUT GO UP

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|-------------------------------------|--|--------------|----------------------|--------------|-------------|----------------------|
| Indications | Cough, SOB, restage cancer, abnormal cxr | | | | | |
| Diagnostic Task | Detect nodules or masses and characterize their size and shape, abnormal fluid collections in chest | | | | | |
| Scan mode | Helical-inspiration | | | | | |
| Position/Landmark | Head first-Supine 1cm to shoulders-arms above head | | | | | |
| Topogram | AP 110kv 15mA | | | | | |
| kVp/Reference mass | 130kV 54Eff mAs/Care Dose ON | | | | | |
| Rotation time/pitch | 1.0/1.5 | | | | | |
| Detector Configuration | 32x0.7 | | | | | |
| Table Speed/Increment | 33.6 | | | | | |
| Dose reduction | CareDose 4D | | | | | |
| Allowed CTDI ranges* | 7mGy-50mGy | | | | | |
| XR29 Dose Notification value | 50mGy | | | | | |
| Helical Set | recon | body part | thickness spacing | kernel | window | recon destination |
| | 1 | chest | 2mmx 2mm | Br40 | mediastinum | pacs |
| | 2 | lung | 1mmx 1mm | Br36 | lung | pacs |
| | 3 | Super D | 1mmx.8mm | Br36 | mediastinum | pacs |
| | 4 | Lung Mip | 10mmx2mm | Br38smooth | lung | pacs |
| Scan Start/end location | 2cm superior to lung apices through adrenal glands/inferior aspect of L-1 | | | | | |
| DFOV | 35cm/decrease for lung recons decrease appropriately | | | | | |
| | | | | | | |
| | | | | | | |
| | Approximate Values for CTDIvol | | | | | |
| | Patient size | weight(kg) | weight(lbs) | CTDIvol(mGy) | | |
| | SMALL | 50-70 | 110-155 | 4-10 | | |
| | AVERAGE | 70-90 | 155-200 | 8-16 | | |
| | LARGE | 90-120 | 200-265 | 14-22 | | |
| 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. | | | | | |

