

High Resolution Chest GO ALL

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|-------------------------------------|--|---------------|-------------|--------------|-------------|-------------|
| Indications | Cough, interstitial lung disease, emphysema, bronchiectasis, asbestosis, restrictive lung disease | | | | | |
| Diagnostic Task | Detect nodules or masses and characterize their size and shape, abnormal fluid collections in chest | | | | | |
| Scan mode | Helical | | | | | |
| Position/Landmark | Head first-Supine 1cm to shoulders/inspiration | | | | | |
| Topogram | AP 15mA 110kV | | | | | |
| kVp/Reference mass | helical130kv 54mas | | | | | |
| Rotation time/pitch | 0.8/1.5 | | | | | |
| 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 | body | | thickness | | recon | |
| Routine Chest | recon | part | spacing | kernel | window | destination |
| | 1 chest | axial | 2mmx 2mm | Br40 | mediastinum | pac |
| | 2 chest | cor | 2mmx 2mm | Br40 | mediastinum | pac |
| | 3 chest | sag | 2mmx 2mm | Br40 | mediastinum | pac |
| | 4 lung | | 1mmx 1mm | Br60 | lung | pac |
| | 5 Lung | MIP | 10mmx2mm | Br36 | lung | pac |
| | 6 Super | D | 1mmx0.8mm | Br44 | Mediastinum | pac |
| supine experation | body | | thickness | | recon | |
| | recon | part | spacing | kernel | window | destination |
| | 1 Bilat | Lung high res | 1mmx20mm | Br60 | Lung | pac |
| prone inspiration | body | | thickness | | recon | |
| | recon | part | spacing | kernel | window | destination |
| | 1 Bilat | Lung high res | 1mmx20mm | Br60 | Lung | pac |
| Scan Start/end location | | | lung apex | | | |
| | | | lung base | | | |
| DFOV | 35cm on full chest/FOV limited to just lungs on lung views | | | | | |
| IV contrast volume/type | none | | | | | |
| Scan delay | none | | | | | |
| | 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. | | | | | |

