# ROUTINE NECK/CHEST/ABDOMEN/PELVIS wo
# 16 GE

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|---|---|---|---|---|
| **Indications** | For abdomen pain, lymphoma, restage ca, weight loss, fatigue | | | |
| **Diagnostic Task** | Detect masses, free fluid, abscess, mets | | | |
| **Scan mode** | Helical | | | |
| **Position/Landmark** | Head first-Supine sternal notch S225-I675 | | | |
| **Topogram** | AP 120kV 20mA Lat 120kV 30mA | | | |
| **kVp/Reference mass** | 120kv Auto mA (100-440) | | | |
| **Rotation time/pitch** | Neck 0.7/1.375:1 C/A/P 0.8/1.375:1 | | | |
| **Detector Configuration** | Neck16x0.625 C/A/P 16x1.25 | | | |
| **Table Speed/Increment** | Neck 13.75 C/A/P 27.50 | | | |
| **Dose reduction** | Noise Index neck 9.10 C/A/P 16.65 | | | |
| **Allowed CTDI ranges*** | 7mGy-50mGy | | | |
| **XR29 Dose Notification value** | 50mGy | | | |
| **Helical Set 1** | | body | thickness | recon |
| **chest/abd/pelvis** | recon | part | spacing | algorithm | destination |
| | 1 | abdomen/pelvis | 2.5mmx 2.5mm | standard | pacs |
| **arms up** | 2 | lung | 1.25mmx1.25mm | lung | pacs |
| | 3 | sag abdomen | 2mmx2mm | standard | pacs |
| | 4 | coronal abdomen | 2mmx2mm | standard | pacs |
| | 5 | sag chest | 2mmx2mm | standard | pacs |
| | 6 | coronal chest | 2mmx2mm | standard | pacs |
| | 7 | axial MIP lung | 10mmx2mm | lung | pacs |
| **Helical Set 2** | | body | thickness | recon |
| **Neck** | recon | part | spacing | algorithm | destination |
| | 1 | neck | 2.5mmx 2.5mm | standard | pacs |
| **arms down** | 2 | coronal neck | 2mmx2mm | standard | pacs |
| | 3 | sag neck | 2mmx2mm | standard | pacs |
| **Scan start** | C/A/P-1cm superior to shoulder/ neck-top of orbital roof | | | |
| **End location** | lesser trochanter / neck base | | | |
| **FOV** | 40cm 20cm | | | |
| | decrease appropriately | | | |
| **IV contrast-split bolus** | na | | | |
| **Delay** | na | | | |
| | WITH ORAL, MARK AREA OF PAIN WITH BB | | | |

| 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.

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