

ROUTINE NECK/CHEST wo 16 Sensation

| | | | | | | |
|-------------------------------------|--|------------|-------------------|--------------------------|-------------|-------------------|
| Indications | For abdomen pain, lymphoma, restage ca, weight loss, fatigue, | | | | | |
| Diagnostic Task | Detect masses, free fluid, abscess, mets | | | | | |
| Scan mode | Helical | | | | | |
| Position/Landmark | 2cm superior to xiphoid/Inspiration | | | | | |
| Topogram | AP 50mA 140kV | | | | | |
| kVp/Reference mass | 120kv 200mas-100kv if pt under 140lbs | | | | | |
| Rotation time/pitch | NECK 0.75/1.0 -C/A/P 0.5/0.95 | | | | | |
| Detector Configuration | NECK 16x0.75 -C/A/P 16x0.75 | | | | | |
| Table Speed/Increment | NECK 12 -C/A/P 11.4 | | | | | |
| Dose reduction | CareDose 4D | | | | | |
| Allowed CTDI ranges* | 7mGy-50mGy | | | | | |
| XR29 Dose Notification value | 50mGy | | | | | |
| Helical Set#1 | | | | | | recon |
| Chest | recon | body part | thickness spacing | kernel | window | recon destination |
| arms up | 1 | chest | 2mmx2mm | 31medium smooth | Mediastinum | pacs |
| | 2 | lung | 1.5mmx1.5mm | 70sharp | lung | pacs |
| | 3 | chest | 1mmx0.8mm | 31medium smooth | Mediastinum | mpr/pacs |
| | 4 | lung | 1mmx0.8mm | b20f smooth | lung | mpr |
| Helical Set#2 | | | | | | recon |
| Neck | recon | body part | thickness spacing | kernel | window | recon destination |
| arms down | 1 | neck | 2mmx 2mm | 31medium smooth | mediastinum | pacs |
| | 2 | neck | 1mmx0.8mm | 31medium smooth | mediastinum | mpr |
| 3D Technique Used | 2x2 coronal and sag neck reformats from helical set #2, recon 2 | | | | | |
| | 2x2 coronal and sag chest reformats from helical set #1, recon 3 | | | | | |
| | 10x2 axial mip lung from recon 5 | | | | | |
| Scan start | Chest-1cm superior to shoulder/ | | | neck-top of orbital roof | | |
| End location | L1 | | | / neck base | | |
| FOV | 40cm | | | 20cm | | |
| | decrease appropriately | | | | | |
| IV contrast-split bolus | na | | | | | |
| Delay | na | | | | | |
| | 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.

