

ROUTINE NECK 64 GE

| Indications | Sore throat, neck mass, difficulty swallowing, hoarseness | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|-------------------|--------------------------------------|---------------------|-----------------------|---------------------------|----------------------|--------|--------------|----------|-----|----------------|--------|----------------|----------|-----|--|----------------|---------|----------|-----|--|------------|---------|----------|-----|
| Diagnostic Task | Detect lymphoma, cancer, neck abscess, lymphoma, vocal cord paralysis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scan Mode | Helical | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position/Landmark | Head first-Supine S250-I100 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Topogram | AP 120kV 20mA Lat 120kV 80mA | | | | | | | | | | | | | | | | | | | | | | | | | |
| kVp/Reference mass | 120kv Auto mA (100-700) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rotation time/pitch | 0.5/0.516:1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detector Configuration | 64x0.625 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Table Speed/Increment | 20.62 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dose reduction | Noise Index 12.60 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Allowed CTDI ranges* | 30mGy-80mGy | | | | | | | | | | | | | | | | | | | | | | | | | |
| XR29 Dose Notification value | 80mGy | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRE INJECT | 40ml at 1.5cc/sec wait 50sec | | | | | | | | | | | | | | | | | | | | | | | | | |
| Helical Set | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>body part</th> <th>thickness spacing</th> <th>algorithm</th> <th>recon destination</th> </tr> </thead> <tbody> <tr> <td>60ML at 2.5cc/sec</td> <td>recon</td> <td></td> <td></td> <td></td> </tr> <tr> <td>30second delay</td> <td>1 neck</td> <td>1.25mmx 1.25mm</td> <td>standard</td> <td>pac</td> </tr> <tr> <td></td> <td>2 coronal neck</td> <td>2mmx2mm</td> <td>standard</td> <td>pac</td> </tr> <tr> <td></td> <td>3 sag neck</td> <td>2mmx2mm</td> <td>standard</td> <td>pac</td> </tr> </tbody> </table> | | body part | thickness spacing | algorithm | recon destination | 60ML at 2.5cc/sec | recon | | | | 30second delay | 1 neck | 1.25mmx 1.25mm | standard | pac | | 2 coronal neck | 2mmx2mm | standard | pac | | 3 sag neck | 2mmx2mm | standard | pac |
| | body part | thickness spacing | algorithm | recon destination | | | | | | | | | | | | | | | | | | | | | | |
| 60ML at 2.5cc/sec | recon | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Axial Set(optional) | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>body part</th> <th>thickness spacing</th> <th>algorithm</th> <th>recon destination</th> </tr> </thead> <tbody> <tr> <td></td> <td>1 neck</td> <td>2.5mmx 2.5mm</td> <td>standard</td> <td>pac</td> </tr> </tbody> </table> <p>only do if patient has dental hardware that causes artifact-angle away from teeth</p> | | body part | thickness spacing | algorithm | recon destination | | 1 neck | 2.5mmx 2.5mm | standard | pac | | | | | | | | | | | | | | | |
| | body part | thickness spacing | algorithm | recon destination | | | | | | | | | | | | | | | | | | | | | | |
| | 1 neck | 2.5mmx 2.5mm | standard | pac | | | | | | | | | | | | | | | | | | | | | | |
| Scan Start/end location | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>ROUTINE</td> <td>/ VOICE CHANGE/ VOCAL CORD PARALYSIS</td> </tr> <tr> <td>top of orbital roof</td> <td>/ top of orbital roof</td> </tr> <tr> <td>sternoclavicular junction</td> <td>/ down to the carina</td> </tr> </table> | ROUTINE | / VOICE CHANGE/ VOCAL CORD PARALYSIS | top of orbital roof | / top of orbital roof | sternoclavicular junction | / down to the carina | | | | | | | | | | | | | | | | | | | |
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| sternoclavicular junction | / down to the carina | | | | | | | | | | | | | | | | | | | | | | | | | |
| DFOV | 20cm-include area of interest do not clip nose | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV contrast volume/type | split injection- 40ml at 1.5cc/sec wait 50sec- resume injection 60ml at 2.0ml/sec | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scan delay | scan when injection is complete(appox 120sec from start of 1st injection) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | note: Please place a BB on any palpable mass | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Note: | The Diagnostic Reference Dose (CTDI vol) is 75mGy(with 16cm CTDI phantom). The pass/fail limit (ACR and Washington state) is 80mGy. Most routine head scans on modern scanners have CTDIvol ranges between 40 and 60mGy. | | | | | | | | | | | | | | | | | | | | | | | | | |
| | *The AAPM recommended NEXA XR29 Dose Notification Value for an adult head is 80mGy. The maximum CTDIvol 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. | | | | | | | | | | | | | | | | | | | | | | | | | |