

Hand wrist small FOV 16 Sensation

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|------------------------------|--|-----------------|-------------------|-----------------|-------------|-------------------|
| Indications | Pain, swelling, fall, mva, trauma | | | | | |
| Diagnostic Task | Detect fractures, dislocations, arthritis | | | | | |
| Scan mode | Helical | | | | | |
| Position/Landmark | Head first-prone -mid forearm-Craniocaudal | | | | | |
| Topogram | Lat 120kV 50mA AP 120kV 50 mA | | | | | |
| kVp/Reference mass | 120kv 120mas | | | | | |
| Rotation time/pitch | 0.75/0.9 | | | | | |
| Detector Configuration | 2x0.6 | | | | | |
| Table Speed/Increment | 1.08 | | | | | |
| Dose reduction | CareDose 4D-off | | | | | |
| Allowed CTDI ranges* | 7mGy-50mGy | | | | | |
| XR29 Dose Notification value | 50mGy | | | | | |
| Helical Set | recon | body part | thickness spacing | kernel | window | recon destination |
| | 1 | thin hand/wrist | .75mmx.75mm | u90ultrasharp | osteo | mpr/pacs |
| | 2 | hand/wrist | 2mmx 2mm | 31medium smooth | mediastinum | pacs |
| | 3 | hand wrist | .75mmx.5mm | 31medium smooth | mediastinum | mpr |
| Scan Start | hand-1cm superior to the distal radioulnar joint/ wrist-1cm superior distal radial diaphysis | | | | | |
| end location | hand-through finger tips/ wrist-1cm inferior to third metacarpal base | | | | | |
| DFOV | 10-15cm decrease appropriately | | | | | |
| 3D Technique Used | 2x2 coronal and sag reformats from recon 1 bone | | | | | |
| | 2x2 coronal and sag reformats from recon 3 soft tissue | | | | | |
| | do 3d spin with recon 3-if fracture seen | | | | | |
| IV contrast volume/type | 100ml -isovue 370- if needed for soft tissue infection or mass | | | | | |
| Scan delay | 90seconds-Performed as directed by a the supervising radiologist | | | | | |
| | Patient prone | | | | | |
| | Arm of concern above head with elbow extended-Palm down | | | | | |

use axial image to reformat sag and coronal reformats



Please see online MSK CT protocols for details