Gundersen Health System

L-Spine Pre-Arthroplasty

Siemens Flash

Application Examples: back pain

| Oral Contrast | No |
|----------------------|----|
| IV Contrast / Volume | No |

| Technical Factors | | | | | |
|-------------------------|------------------|--|--|--|--|
| Detector Collimator | Acq 128 x 0.6 mm | | | | |
| Care kV | On / 120 kV | | | | |
| Care Dose 4D | On / 260 mAs | | | | |
| Rotation Time (seconds) | 1.0 | | | | |
| Pitch | 0.8 | | | | |
| Typical CTDIvol | 17.55 mGy ± 50% | | | | |

Topogram: AP and Lateral, 512 mm

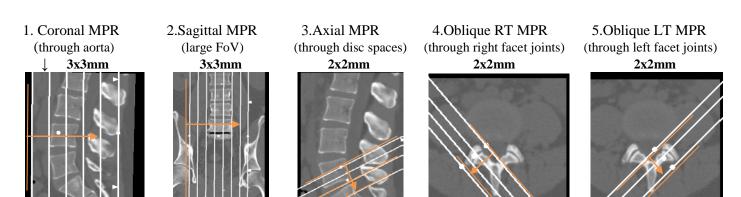
| Spine | Recon Type | Width / Increment | Algorithm | Safire | Window | FoV | Series Description | Networking | Post Processing |
|---------|------------|-------------------|-----------|--------|--------|-----|--------------------|------------|-----------------|
| Recon 1 | Axial | 3 x 3 | I70h | 1 | Bone | 200 | AXIAL BONE | PACS | None |
| Recon 2 | Axial | 3 x 3 | I30s | 1 | Spine | 200 | AXIAL STND | PACS | None |
| Recon 3 | 3D:AXIAL | 2 x 2 | I70h | 1 | Bone | - | AXIAL MPR | PACS | Axial MPR |
| Recon 4 | 3D:COR | 3 x 3 | I30s | 1 | Bone | - | COR | PACS | Coronal MPR |
| Recon 5 | 3D:SAG | 3 x 3 | I30s | 1 | Bone | - | SAG | PACS | Sagittal MPR |
| Recon 6 | Axial | 0.6 x 0.6 | I26s | 1 | Bone | 200 | AXIAL 0.6 STND | TeraRecon | None |
| Recon 7 | 3D:SAG | 2 x 2 | I30s | 1 | Bone | - | OBL RT | PACS | OBL MPR |
| Recon 8 | 3D:SAG | 2 x 2 | I30s | 1 | Bone | - | OBL LT | PACS | OBL MPR |

This protocol is used for pre-operative planning for lumbar spine disc arthroplasty surgery. The images note the position of the pubic symphysis in relation to the disc space(s) to be replaced.

Patient Position: Supine feet first with arms comfortably above head.

Scan Range: One vertebral level above area of interest through pubic symphysis.

Recons & Reformats: Coronal FoV to include aorta through spinal anatomy and sagittal FoV to include the pubic symphysis anteriorly. Right and left oblique MPRs include facet joints.



3D: No