RIH - ANKLE/FOOT CT
GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

Indication: fracture, dislocation, osteomyelitis, bone injury, bone tumor.

| Position/Landmark                  | Supine, feet first
|                                  | Zero Appropriately  
| Topogram Direction                | Craniocaudal
| Respiratory Phase                 | Any
| Scan Type                         | Helical
| KV / mA / Rotation time (sec)     | 120kv / smart mA (100-440) / .5 sec
| Pitch / Speed (mm/rotation)       | .938:1 , 9.37mm
| Noise Index                       | 25.00
| Detector width x Rows = Beam Collimation | 0.625mm x 16 = 10mm

| Helical Set                        | Recon body thickness/spacing algorithm recon destination
| Slice Thickness/ Spacing            | recon part spacing algorithm destination
| Algorithm                          | Recon Destination
| 1 thin ankle/foot                  | .6mm x .6mm bone for dmpr
| 2 ankle/foot bone                  | 2.5mm x 2.5mm bone pacs
| 3 ankle/foot soft tissue           | 2.5mm x 2.5mm standard pacs

| Scan Start / End Locations         | determined by technologist or radiologist to include the anatomy of interest
| DFOV                               | 18cm decrease appropriately
| IV Contrast Volume / Type / Rate   | 70cc omni 350 / 2cc per second if needed
| Scan Delay                         | 65 seconds

2D/3D Technique Used
- DMPR of 3mm x 3mm coronal and sagittal ankle or foot series (auto-batch off), average mode, auto-transferred to PACS
- Also, there is a 3mm x 3mm true axial reformat if needed due to the patient’s position.

Comments: Recon 1 is a single thin helical group of the ankle/foot for direct mpr. Recon 2 is the 2.5mm x 2.5mm ankle/foot, bone algorithm ct going to PACS. Recon is the 2.5mm x 2.5mm ankle/foot, standard algorithm ct going to PACS.

Images required in PACS
- Scouts, 2.5mm x 2.5mm axial ankle/foot bone, 2.5mm x 2.5mm axial ankle/foot standard, 3mm x 3mm sagittal ankle/foot, 3mm x 3mm coronal ankle/foot, Dose Report