

**RIH - ANKLE/FOOT CT  
SIEMENS DEFINITION AS+ PROTOCOL**

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

<b>Position/Landmark</b>	Supine , feet first Zero Appropriately																																			
<b>Topogram Direction</b>	Craniocaudal																																			
<b>Respiratory Phase</b>	Any																																			
<b>Scan Type</b>	Helical																																			
<b>Ref kV/Ref mAs/Rotation time (sec) Pitch / Speed (mm/rotation) Safire Strength / Dose Optimization</b>	Care kV 120 / Care Dose4D 100 / 1 sec .8:1 , 32.00mm 3 / 4																																			
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 64 = 40mm (128 x .6mm)																																			
<b>Average Tube Output</b>	ctdi – 3.0mGy dlp – 80mGy.cm																																			
<b>Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1"> <thead> <tr> <th></th> <th>body part</th> <th>thickness/ spacing</th> <th>recon algorithm</th> <th>recon destination</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><b>axial soft foot</b></td> <td>3mm x 3mm</td> <td>I40s medium</td> <td>pac</td> </tr> <tr> <td>2</td> <td><b>axial bony foot</b></td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>3</td> <td><b>coronal foot</b></td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>4</td> <td><b>sagittal foot</b></td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>5</td> <td><b>true axial foot</b></td> <td>3mm x 3mm</td> <td>I70h very sharp</td> <td>pac</td> </tr> <tr> <td>6</td> <td>thin foot</td> <td>.75mm x .7mm</td> <td>I70h very sharp</td> <td>terarecon</td> </tr> </tbody> </table>		body part	thickness/ spacing	recon algorithm	recon destination	1	<b>axial soft foot</b>	3mm x 3mm	I40s medium	pac	2	<b>axial bony foot</b>	3mm x 3mm	I70h very sharp	pac	3	<b>coronal foot</b>	3mm x 3mm	I70h very sharp	pac	4	<b>sagittal foot</b>	3mm x 3mm	I70h very sharp	pac	5	<b>true axial foot</b>	3mm x 3mm	I70h very sharp	pac	6	thin foot	.75mm x .7mm	I70h very sharp	terarecon
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<b>Scan Start / End Locations</b>	determined by technologist or radiologist to include the anatomy of interest																																			
<b>DFOV</b>	18cm decrease appropriately																																			
<b>IV Contrast Volume / Type / Rate</b>	75mL Iohexol (Omnipaque 350) / 2mL per second if needed																																			
<b>Scan Delay</b>	65 seconds																																			
<b>2D/3D Technique Used</b>	Workstream 4D mpr of 3mm x 3mm <b>coronal and sagittal ankle or foot</b> 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.																																			
<b>Comments:</b> Recon 6 is a thin helical volume of the ankle/foot that is archived to the TeraRecon server.																																				
<b>Tarsal Coalition:</b> If tarsal coalition is the clinical indication for the study, reformat true axial, sagittal, and coronal images <b>in respect to the tarsals/metatarsals.</b>																																				
<b>Images required in PACS</b>	Topograms, 3mm x 3mm axial ankle/foot bone, 3mm x 3mm axial ankle/foot standard, 3mm x 3mm sagittal ankle/foot, 3mm x 3mm coronal ankle/foot, Patient Protocol																																			