

RIH – UPPER EXTREMITY CTA GE LIGHTSPEED VCT PROTOCOL

Position/Landmark	Head first or feet first-Supine. The arm should be placed over the patient's head when possible. Zero appropriately															
Topogram Direction	Craniocaudal															
Respiratory Phase	Suspension															
Scan Type	Helical															
KV / mA / Rotation time (sec) Pitch / Speed (mm/rotation) Noise Index / ASiR / Dose Reduction	120kv / smart mA (100-450) / 0.5 sec 0.984:1 , 39.37mm 16.0 / 20 / 20%															
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm															
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">recon</th> <th style="text-align: left;">body part</th> <th style="text-align: left;">thickness/ spacing</th> <th style="text-align: left;">algorithm</th> <th style="text-align: left;">recon destination .</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>upper ext ct angio</td> <td>2.5mm x 2.5mm</td> <td>standard</td> <td>pac</td> </tr> <tr> <td>2</td> <td>thin upper ext ct angio</td> <td>.6mm x .6mm</td> <td>soft</td> <td>for mpr/vr</td> </tr> </tbody> </table>	recon	body part	thickness/ spacing	algorithm	recon destination .	1	upper ext ct angio	2.5mm x 2.5mm	standard	pac	2	thin upper ext ct angio	.6mm x .6mm	soft	for mpr/vr
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Scan Start / End Locations	determined by technologist or radiologist to include the anatomy of interest															
DFOV	18cm decrease appropriately															
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350) / 4mL per second															
Scan Delay	Smart Prep at aortic arch or proximal extremity															
2D/3D Technique Used	CTA: 2mm x 2mm coronal cta series, mip mode and 2mm x 2mm sagittal cta series, mip mode, (auto-batch off), auto transferred to PACS. Volume Rendering of the arterial anatomy.															
<p>Comments: The cta is done using a smart prep at the level of the aortic arch or proximal to the body part to be scanned. Recon 2 of the cta is a soft algorithm, thin for reformats. Coronal and sagittal reformats, 2.0mm x 2.0mm, mip mode, using direct mpr is the standard.</p> <p>Please ensure Smart mA is turned on.</p>																
Images required in PACS	Scouts, 2.5mm x 2.5mm axial upper extremity cta, 2mm x 2mm coronal upper extremity cta, 2mm x 2mm sagittal upper extremity cta, volume rendering of the arterial anatomy, Dose Report															