RIH – LOWER EXTREMITY RUNOFF CTA
GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

Indications: peripheral artery disease, claudication

Position/Landmark	Head first or feet first-Supine Xyphoid
Topogram Direction	Craniocaudal
Respiratory Phase	Suspension
Scan Type	Helical
KV / mA / Rotation time (sec) **Pitch / Speed (mm/rotation)** **Noise Index**	120kv / smart mA (80-440) / 0.5 sec 1.75:1 , 17.50mm 19.00 (cta)
Detector width x Rows = Beam Collimation	0.625mm x 16 = 10mm
Average Tube Output	ctdi – 8.1 mGy dlp – 1130 mGy.cm
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **run-off ct angio** 2.5mm x 2.5mm standard pacs 2 thin ct angio .6mm x .6mm soft for mpr
Scan Start / End Locations **DFOV**	mid diaphragm through the feet 38cm decrease appropriately
IV Contrast Volume / Type / Rate	120cc omni 350 4cc/sec
Scan Delay	smart prep at celiac artery
2D/3D Technique Used	CTA: 3mm x 3mm **coronal abdomen** region, **femoral** region, and **lower leg** region series, mip mode manually transferred to PACS. **3d run-off** ct angiogram, manually transferred to PACS. Thick **run-off mip rotation**, manually transferred to PACS.
Comments: The cta is done using a smart prep at the level of the celiac artery. The threshold for smart prep is +150 HU. Recon 2 is a soft algorithm, thin for reformats. 3mm x 3mm coronal reformats, mip mode of the abdomen, femoral region and lower leg region are created from this helical image data set. Thick mip rotation of the arterial anatomy.	
Images required in PACS	Scouts, 2.5mm x 2.5mm axial run-off cta, 3mm x 3mm coronal abdomen/pelvis cta, 3mm x 3mm coronal femoral cta, 3mm x 3mm coronal lower leg cta, 3d run-off ct angiogram. Thick mip rotation of the arterial anatomy. Dose Report

updated Jan 23, 2017