## **RIH – LOWER EXTREMITY RUNOFF CTA GE LIGHTSPEED VCT PROTOCOL**

## Indications: peripheral artery disease, claudication

Fopogram Direction       Craniocaudal         Respiratory Phase       Suspension         Scan Type       Helical         KV / mA / Rotation time (sec)       120kv / smart mA (80-450) / 0.5 sec         Pitch / Speed (mm/rotation)       .969:1, 19.37mm         Noise Index / ASiR / Dose Reduction       0.625mm x 32 = 20mm         Detector width x Rows = Beam       0.625mm x 32 = 20mm         Collimation       ctdi = 8.1 mGy         Average Tube Output       ctdi = 8.1 mGy         Belical Set       body       thickness/       recon         Slice Thickness/ Spacing       part       spacing       algorithm       destination         Algorithm       1       run-off ct angio       2.5mm x 2.5mm       standard       pacs         Scan Start / End Locations       mid diaphragm       through the feet       38cm         OFOV       decrease appropriately       120mL Iohexol (Omnipaque 350) / 4mL per second       if needed	Position/Landmark		Head first or feet first-Supine				
Respiratory Phase         Suspension           Scan Type         Helical           KV / mA / Rotation time (sec)         120kv / smart mA (80-450) / 0.5 sec           Pitch / Speed (mm/rotation)         .969:1, 19.37mm           Noise Index / ASiR / Dose Reduction         16.0 / 20 / 20%           Detector witht x Rows = Beam         0.625mm x 32 = 20mm           Collimation         ctdi - 8.1 mGy           Average Tube Output         ctdi - 8.1 mGy           Helical Set         body thickness/ arecon           Silce Thickness/ Spacing         Algorithm           Algorithm         1 run-off ct angio           2 thin ct angio         2.5mm x 1.5mm           Algorithm         standard           PFOV         decrease appropriately           VC Ontrast Volume / Type / Rate         120mL. Iohexol (Omnipaque 350) / 4mL per second if in eeded           Scan Delay         stant prep at celiac artery           ZD/3D Technique Used         CTA: 3mm x 3mm coronal abdomen region, femoral region, and lower leg region series, mip mode 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	Ton o more Divertion	Xyphoid					
Scan Type       Helical         KV / mA / Rotation time (sec)       120kv / smart mA (80-450) / 0.5 sec         Pitch / Speed (mm/rotation)       .969:1, 19.37mm         Noise Index / ASIR / Dose Reduction       0.625mm x 32 = 20mm         Obtector width x Rows = Beam       0.625mm x 32 = 20mm         Collimation       0.625mm x 32 = 20mm         Average Tube Output       ctdi = 8.1 mGy         Helical Set       body       thickness/         Sice Thickness/ Spacing       1       run-off ct angio       2.5mm x 1.5mm         Algorithm       1       run-off ct angio       2.5mm x 2.5mm       standard       pacs         Scen Destination       2       thin ct angio       .6mm x .6mm       soft       for mpr         Scan Start / End Locations       mid diaphragm       through the feet       38cm         OFOV       decrease appropriately       VI Contrast Volume / Type / Rate       120mL Iohexol (Omnipaque 350) / 4mL per second       if needed         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.         Driburger (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 r	Topogram Direction			Craniocaudai			
KV / mA / Rotation time (sec)       120kv / smart mA (80-450) / 0.5 sec         Pitch / Speed (mm/rotation)       .969:1, 19.37mm         Noise Index / ASiR / Dose Reduction       0.625mm x 32 = 20mm         Collimation       0.625mm x 32 = 20mm         Average Tube Output       ctdi – 8.1 mGy         dlp – 1130 mGy.cm       dlp – 1130 mGy.cm         Helical Set       body       thickness/       recon         Silce Thickness/ Spacing       recon part       spacing       algorithm       destination         Algorithm       1       run-off ct angio       2.5mm x 2.5mm       standard       pacs         Sice Thickness/ Spacing       1       run-off ct angio       2.5mm x 2.5mm       standard       pacs         Algorithm       algorithm       algorithm destination       3.5mm       3.5mm       5.5mm	Respiratory Phase		Suspension				
Pitch / Speed (mm/rotation)       .969:1, 19.37mm         Noise Index / ASIR / Dose Reduction       .6.0 / 20 / 20%         Detector width x Rows = Beam       0.625mm x 32 = 20mm         Collimation	Scan Type		Helical				
Pitch / Speed (mm/rotation)       .969:1, 19.37mm         Noise Index / ASIR / Dose Reduction       .6.0 / 20 / 20%         Detector width x Rows = Beam       0.625mm x 32 = 20mm         Collimation	KV / mA / Rotation time (sec)		120ky / smart mA (80-450) / 0.5 sec				
Noise Index / ASIR / Dose Reduction       16.0 / 20 / 20%         Detector width x Rows = Beam       0.625mm x 32 = 20mm         Collimation       dlp - 1130 mGy.cm         Helical Set       body       thickness/         Slice Thickness/Spacing       algorithm       recon         Algorithm       nu-off ct angio       2.5mm x2.5mm         Recon Destination       2 thin ct angio       .6mm x .6mm       soft for mpr         Scan Start / End Locations       mid diaphragm       through the feet       38cm         DFOV       dccrease appropriately       VContrast Volume / Type / Rate       120mL       lohexol (Omnipaque 350) / 4mL per second         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.         Comments: The cta is done using a smart prep at the level of the celiac artery. The threshold for smart prep is +150 HU.       3m 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.       Scouts, 2.5mm x 2.5mm axial run-off cta, 3mm x 3mm coronal abdomen/pelvis cta, 3mm x 3mm coronal lower leg region are created from this helical image data set.	Pitch / Speed (mm/rotation)						
Detector width x Rows = Beam         0.625mm x 32 = 20mm           Collimation         ctdi - 8.1 mGy dlp - 1130 mGy.cm           Helical Set         body         thickness/           Silce Thickness/Spacing Algorithm         algorithm         destination           2         thin ct angio         2.5mm x 2.5mm         standard           Scan Start / End Locations         mid diaphragm through the feet 38cm         standard         pacs           DFOV         decrease appropriately         through the feet 38cm         standard         prescond if needed           OFOV         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.           DJ3D 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 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.         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, curved reformats using the "Run Off" protoc	Noise Index / ASiR / Dose Reduction		,				
Collimation       ctdi - 8.1 mGy dlp - 1130 mGy.cm         Helical Set Slice Thickness/ Spacing Algorithm Recon Destination       body recon part 2 thin ct angio 2 thin ct angio 3 for mpr         Scan Start / End Locations       mid diaphragm through the feet 38cm         DFOV       decrease appropriately         VV Contrast Volume / Type / Rate       120mL Iohexol (Omnipaque 350) / 4mL per second if needed         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 abdomen/pelvis cta, 3mm x 3mm coronal femoral cta, 3mm x 3mm coronal abdomen/pelvis	<b>Detector width x Rows = Beam</b>						
dlp – 1130 mGy.cm         Helical Set         Slice Thickness/Spacing         Algorithm         Recon Destination         2       thin ct angio         2       thin ct angio         2       thin ct angio         2       thin ct angio         3       mid diaphragm         through the feet       38cm         3       38cm         DFOV       decrease appropriately         IV Contrast Volume / Type / Rate       120mL Iohexol (Omnipaque 350) / 4mL per second         if needed       if needed         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.         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 abdomen/pelvis cta, 3mm x 3mm coronal abdomen/pelvis	Collimation						
Helical Set       body       thickness/       recon         Slice Thickness/ Spacing Algorithm       algorithm       destination       .1         Pecon Destination       1       run-off ct angio       2.5mm x 2.5mm       standard       pacs         Scan Start / End Locations       mind diaphragm       through the feet       38cm         DFOV       decrease appropriately       through the feet       38cm         OFOV       generation       algorithm       through the feet         Scan Delay       smart prep at celiac artery       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.         Comments: The cta is done using a smart prep at the level of the celiac artery. The threshold for smart prep is +150 HU.       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 anato	Average Tube Output		ctdi – 8.1 mGy				
Helical Set       body       thickness/       recon         Slice Thickness/ Spacing Algorithm       algorithm       destination       .1         Pecon Destination       1       run-off ct angio       2.5mm x 2.5mm       standard       pacs         Scan Start / End Locations       mind diaphragm       through the feet       38cm         DFOV       decrease appropriately       through the feet       38cm         OFOV       generation       algorithm       through the feet         Scan Delay       smart prep at celiac artery       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.         Comments: The cta is done using a smart prep at the level of the celiac artery. The threshold for smart prep is +150 HU.       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 anato			dlp – 1130 mGy.cm				
Algorithm       1 <b>run-off ct angio</b> 2.5mm x 2.5mm       standard       pacs         2       thin ct angio       .6mm x .6mm       soft       for mpr         Scan Start / End Locations       mid diaphragm       through the feet       38cm         DFOV       decrease appropriately         IV Contrast Volume / Type / Rate       120mL       Iohexol (Omnipaque 350) / 4mL per second         if needed       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.       Scouts, 2.5mm x 2.5mm axial run-off cta, 3mm x 3mm coronal abdomen/pelvis cta, 3mm x 3mm coronal lower leg cta, curved reformats using the "Run Off" protocol on the workstation, 3d run-off cta	Helical Set		body			recon	
Recon Destination       2       thin of every of anglo       .6mm x .6mm       soft       for mpr         Scan Start / End Locations       mid diaphragm       through the feet       38cm         DFOV       decrease appropriately       120mL Iohexol (Omnipaque 350) / 4mL per second       if needed         DFOV       smart prep at celiac artery       20/3D Technique Used       CTA: 3mm x 3mm coronal abdomen region, femoral region, and lower leg region series, mip mode manually transferred to PACS.         2d run-off ct angiogram, manually transferred to PACS.       3d 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.       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, curved reformats using the "Run Off" protocol on the workstation, 3d run-off cta	Slice Thickness/ Spacing	recon	part	spacing	algorithm	destination .	
Recon Destination       2       thin ct angio       .6mm x .6mm       soft       for mpr         Scan Start / End Locations       mid diaphragm through the feet 38cm       mid diaphragm through the feet 38cm         DFOV       decrease appropriately       120mL Iohexol (Omnipaque 350) / 4mL per second if needed         VC Contrast Volume / Type / Rate       120mL Iohexol (Omnipaque 350) / 4mL per second if needed         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, curved reformats using the "Run Off" protocol on the workstation, 3d run-off cta	Algorithm	1	run-off ct angio	2.5mm x 2.5mm	standard	pacs	
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JEFOV       Jackson decrease appropriately         IV Contrast Volume / Type / Rate       120mL Iohexol (Omnipaque 350) / 4mL per second if needed         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, curved reformats using the "Run Off" protocol on the workstation, 3d run-off cta							
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region and lower leg region are created from this helical image data set.Thick mip rotation of the arterial anatomy.Images required in PACSScouts, 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, curved reformats using the "Run Off" protocol on the workstation, 3d run-off ct		reformat	s. 3mm x 3mm core	onal reformats, mip m	ode of the abd	omen, femoral	
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curved reformats using the "Run Off" protocol on the workstation, 3d run-off ct	g					-	
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