## RIH – CT ABDOMEN ANGIO S/P EVT GRAFT GE LIGHTSPEED 16 / OPTIMA CT580 PROTOCOL

## Indications: Evaluate patentcy of stent graft, to determine thrombosis of excluded portion of aorta, and to look for endovascular leaks.

Position/Landmark	Head first or feet first-Supine					
		Xyphoid				
Topogram Direction		Craniocaudal				
		- · · · ·				
Respiratory Phase		Inspiration				
Scan Type		Helical				
KV / mA / Rotation time (sec)		120kv / smart mA (100-440) / 0.5 sec				
Pitch / Speed (mm/rotation)		1.375:1 , 27.50mm				
Noise Index / ASiR / Dose Reduction		19 / 30 / 30%				
<b>Detector width x Rows = Beam</b>		1.25mm x $16 = 20$ mm				
Collimation		Eash Haliach at 17 2m Ca				
Average Tube Output		Each Helical: $ctd1 - 1/.3mGy$				
		$\frac{dip - \delta/2 \text{ mGy.cm}}{body}$				
First Helical Set		body	thickness/	1 4	recon	
Slice Thiskness/Specing	recon	<u>part</u>	spacing	algorithm	destination .	
Algorithm	1	nc abd/pelvis	Smm x Smm	standard	pacs	
Recon Destination						
Second Helical Set		body	thickness/		recon	
	recon	n part	spacing	algorithm	destination .	
Slice Thickness/ Spacing	1	abd/pelvis cta	2.5mm x 2.5mm	standard	pacs	
Algorithm	2	thin abd/pel cta	1.25mm x .6mm	soft	for dmpr/vr	
Recon Destination	_	L			Ĩ	
Third Helical Set		body	thickness/		recon	
	recon	<u>part</u>	spacing	algorithm	destination .	
Algorithm		delayed abd pelvis	2.5mm x 2.5mm	standard	pacs	
Recon Destination	2	thin delayed ct	1.25mm x .6mm	soft	for dmpr	
Scan Start / End Locations		1 cm superior to diaphragm				
		lesser trochanters				
DFOV		25cm				
IV Contrast Volume / Type / Rate		100cc  omni 350  4cc/sec				
Scan Delay	No	on-Contrast	СТА	De	elay	
		smart prep at celiac artery 1 minute				
2D/3D Technique Used	СТА	CTA: DMPR of 2mm x 2mm coronal abdomen/pelvis series (auto-batch				
	on), 1	on), mip mode, and 2mm x 2mm sagittal aorta series (auto-batch off). mip				
	mode	mode, auto-transferred to PACS.				
	Delay	Delay: DMPR of 5mm x 5mm coronal abdomen/pelvis series (auto-batch				
	on), average mode, auto-transferred to PACS					
Comments: A non-contrast study is done first. Then a ct angiogram is done using a smart prep at the level of the						
celiac artery. There is a helical scan done 60 seconds after the cta to look for subtle leak.						
Images required in PACS	Scouts,	Scouts, 5mm x 5mm axial nc abdomen/pelvis, 2.5mm x 2.5mm axial cta				
	abdom	abdomen/pelvis, 2mm x 2mm coronal arterial abdomen/pelvis, 2mm x 2mm				
	sagittal	sagittal arterial aorta, 2.5mm x 2.5mm axial delayed abdomen/pelvis, 5mm x				
	5mm c	5mm coronal delayed abdomen/pelvis, Dose Report				