Maximum CTDI 65

Indication: To evaluate size of Aorta and surrounding structures. **Please do a venous phase just through the stent if a stent is present.**

PT Prep: NO Oral
IV contrast – Yes (follow IV contrast administration guidelines)
　　　20g to 18 g peripheral IV needed for contrast administration

Series 1: Scouts AP & LAT – Supine "O" at Xiphoid Process S20 to I450

Series 2: Unenhanced - Scan from dome of liver to bottom of symphysis pubis

Technique:

	128 slice	**32 slice w/ASIR**	**16 slice**	**64 slice w/ASIR 30%**
Noise Level	15.86	19.80	11.60	11.60
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	0.984:1	1.375:1	0.984:1	0.984:1
Speed mm/rotation	39.37	55	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40mm	40mm	40mm	40mm
Kv/mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA
Scan Type	Helical Full 0.8 sec	Helical Full 0.7 sec	Helical Full 0.5 sec	Helical Full 0.5 sec

Series 3: Enhanced Scan – 100cc of IV contrast @ 4cc/sec (Contrast dose may be adjusted based on CrCl)
Scan from the apices to the aortic bifurcation or lesser trochanter (if pelvis ordered) with bolus injection of 4cc sec. **Smart prep** cursor on descending aorta at level of carina.
Instruct patient to hold their breath. Do entire scan in one acquisition.

Technique:

	128 slice	32 slice w/ASIR	16 slice	64 slice w/ASIR 30%
Noise Level	15.86	15.86	11.60	11.60
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	0.984:1	1.375:1	0.984:1	0.984:1
Speed mm/rotation	39.37	55	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40mm	40mm	40mm	40mm
Kv/mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA
Scan Type	Helical Full 0.5 sec	Helical Full 0.7 sec	Helical Full 0.5 sec	Helical Full 0.5 sec

Series 4:   Repeat series 3 after **70 sec delay** (from injection), <u>top of graft</u> to <u>bottom of graft</u>.

Technique:

	128 slice	32 slice w/ASIR	16 slice	64 slice w/ASIR 30%
Noise Level	15.86	15.86	12.00	12.00
Interval	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Axial/Helical Thickness	2.5 mm	2.5 mm	2.5 mm	2.5 mm
Pitch	0.984:1	1.375:1	0.984:1	0.984:1
Speed mm/rotation	39.37	27.5	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	40mm	40mm	40mm	40mm
Kv/mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA	Auto mA — if large pt. use manual & maximize mA
Scan Type	Helical Full 0.5 sec	Helical Full 0.7 sec	Helical Full 0.5 sec	Helical Full 0.5 sec

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Revised Date: 11-9-04, 1-11-10, 9-16-10   12/8/10   04/17/13 12/15/2015 2/28/18, 4/11/24, 9/12/24
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GE MDCT

Networking/ PACs: Send scouts
                      Send series 2 Standard Soft Tissue Algorithm
                      Send series 3 Standard Soft Tissue Algorithm
                      Send thinnest from series 3 to 3D workstation and M2S (MMS) if order states.
                      Recon and send series 3 lung images in Lung algorithm
                      Recon and send series 3 bone images with Bone algorithm
                      Send series 4 Standard Soft Tissue Algorithm
                      Recon and send MPR of all series in Standard Algorithm
                      Recon and send MIPS of series 3 to PACS
                      Recon and send MIPS in lung algorithm
                      Record DLP in PACS comments