# CT CTA Aortic Dissection GE- 1104

***Maximum CTDI __65____***

Indication: Chest pain, suspect or known history of Aortic Dissection

Note: If only chest wanted but dissection continues past L2, follow until dissection ends.

PT Prep: No oral contrast
IV contrast – Yes (follow IV contrast administration guidelines)
20g to 18 g peripheral IV in AC or Injectable PICC for contrast administration.

Series 1: Scouts AP & LAT – Supine "O"at Sternal Notch S60 to I650

Series 2: Scan from above the top of aortic arch to aortic bifurcation **without** IV contrast.

Technique:

| | **128 slice** | **32 slice w/ASIR** | **64 slice** | **64 slice w/ASIR 30%** |
|---|---|---|---|---|
| Noise Level | 16.10 | 14.00 | 11.60 | 14.00 |
| Interval | 5mm | 5mm | 5mm | 5mm |
| Axial/Helical Thickness | 5mm | 5mm | 5mm | 5mm |
| Pitch | 0.984:1 | 0.984:1 | 0.984:1 | 0.984:1 |
| Speed mm/rotation | 39.37 | 39.37 | 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 0.8 sec | Helical Full 0.5 sec | Helical Full 0.8sec |

Original Date: 4-8-04 Approved by: Dr. Rehfuss , MCR _____
Revised Date: 11-9-04, 1-11-10 12/8/10, 4/17/13 12/15/15 2/28/18

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Series 3: Inject 100cc of IV contrast @ 4cc/sec. (Contrast dose may be adjusted based on CrCl)

Technique:

| | **128 slice** | **32 slice w/ASIR** | **64 slice** | **64 slice w/ASIR 30%** |
|---|---|---|---|---|
| Noise Level | 18.23 | 15.86 | 15.86 | 15.86 |
| Interval | 2.5mm | 2.5mm | 2.5mm | 2.5mm |
| Axial/Helical Thickness | 2.5mm | 2.5mm | 2.5mm | 2.5mm |
| Pitch | 0.984:1 | 0.984:1 | 0.984:1 | 0.984:1 |
| Speed mm/rotation | 39.37 | 39.37 | 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 0.8 sec | Helical Full 0.5 sec | Helical Full 0.8 sec |

Networking/ PACs: Send scouts
Send series 2 Standard Soft Tissue Algorithm
Send series 3 Standard Soft Tissue Algorithm
Recon and send axial lung images in lung algorithm series 2 and 3
Recon and send axial images in bone algorithm series 2 and 3
Recon and send MPR images in standard algorithm
Recon and send MIP images in standard algorithm
Send thins to 3D

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