

**CT CTA Carotid Arch**  
**Maximum CTDI \_\_150**

**GE- 1106**

Note: Demonstrate aneurysms of the Carotid Arteries, Aortic Arch

PT Prep: IV Contrast (follow MCR IV contrast dosing guidelines)

Series 1: **Scout AP & Lat “0” at OM**  
 S 75 to I 200

Series 2: **Smart Prep** image will be taken at the ascending aorta  
 -The scan is started here and will be scanned bottom up.  
 -The mA may need to be adjusted on Smart Prep to 60 or 80 depending on patient size to penetrate through the shoulders.

Series 3: Arterial Phase: IV contrast with a bolus flush at 4.5cc sec

In the **SMART PREP** window: click the **Automatic Minimum Delay** to adjust for least amount of delay. Smart prep on ARCH for CTA neck.  
 Start scan on first blush of IV contrast in aorta  
 Perform a Helical scan from the Arch through the base of skull.

Reconstruction: Standard DFOV 23

Technique:

	<b>750 HD (128) CT2</b>	<b>Optima 660 (32) OVIC</b>	<b>Optima 660 CT1</b>	<b>VCT 64 CT3</b>
Noise Level	12.87	18.00	9.00	12.00
Interval	5mm	5 mm	5mm	5 mm
Axial/Helical Thickness	5mm	5mm	5mm	5mm
Pitch	0.969:1	1.375:1	0.984:1	0.984:1
Speed mm/rotation	19.37	27.50	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	20mm	20mm	40mm	40mm
Kv/mA	120KV/700mA	120KV/440mA	120KV/440mA	120KV/700mA
Scan Type	Helical 0.4	Helical 0.5	Helical 0.7	Helical 0.5

Original Date: 4-8-04

Approved by: Dr. Barbu, MCR

Revised Date: 11/9/04, 12/08/10, 4/17/13, 12/15/15, 08/18/20, 3/11/24, 3/8/24

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Networking/ PACs:    Send scouts/smart prep pictures  
                              Send series 3 in Standard Algorithm in 2.5mm  
                              Send Recon 2 in 950 WW & 250 WL to 3D  
                              Send Sagittal / Coronal / Axial MIP images

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