

CT CTA Circle of Willis to Carotid Arch

GE- 1103

Maximum CTDI __150

Note: Demonstrate aneurysms of the Circle of Willis, Carotid Arteries, Aortic Arch

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

Series 1: **Scout AP & Lat “0” at OM**
S 100 to I 300

Series 2- **Smart Prep** image will be taken at 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 to least amount of delay. Smart prep on ARCH for CTA head/neck.
-scan should be started on first blush of IV contrast in the aorta
-Perform a Helical scan from the Arch through the top of the head.

Reconstruction: Standard DFOV 23

Technique:

	750 HD (128) CT2	Optima660 (32) OVIC	Optima 660 CT1	VCT 64 CT3
Noise Level	12.00	18.20	9.00	12.00
Interval	5mm	5mm	5mm	5mm
Axial/Helical Thickness	5mm	5mm	5mm	5 mm
Pitch	0.969:1	0.969:1	0.984:1	0.984:1
Speed mm/rotation	19.37	19.37	39.37	39.37
Detector Rows				
Detector Configuration				
Beam Collimation	20mm	20mm	40mm	40mm
KV/mA	120KV/700mA	120KV/440mA	120KV/440mA	120KV/440mA
Scan Type	Helical 0.4	Helical 0.5	Helical 0.7	Helical 0.7

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

Original Date: 4-8-04

Approved by: Dr. Barbu, MCR

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

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