

**CT CTA Circle of Willis**  
**Maximum CTDI \_\_150**

**GE- 1102**

Note: Demonstrate aneurysms of the Circle of Willis

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

Series 1: **Scout AP & Lat “0” at OM**  
 S 150 to I 150

Series 2 - **Smart Prep** image will be taken at C2  
 -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 per MCR IV contrast dosing guidelines with bolus flush at 4.5 cc sec.

In the **SMART PREP** window: click the **Automatic Minimum Delay** adjust for shortest delay. Smart prep on C2 for CTA heads only.

Scan bottom up and start scan at 2nd image when a blush of contrast is seen

**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	7.00	12.00	12.00	12.00
Interval	5mm	5mm	5mm	5mm
Axial/Helical Thickness	5mm	5mm	5mm	5mm
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/380mA	120KV/380mA	120KV/350mA	120KV/350mA
Scan Type	Helical 0.4	Helical 0.5	Helical 0.5	Helical 0.5

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 all in MIP images

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

