Note: Demonstrate aneurysms of the Circle of Willis, Carotid Arteries, Aortic Arch
PT Prep: IV Contrast (follow MCR IV contrast dosing guidelines)

## Series 1: $\quad$ Scout AP \& Lat "0" at OM

S 100 to I 300
Series 2- $\quad$ 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 4.5 cc 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) <br> CT2 | Optima660 (32) <br> OVIC | Optima 660 <br> CT1 | VCT 64 <br> CT3 |
| :--- | :--- | :--- | :--- | :--- |
| Noise Level | 12.00 | 18.20 | 9.00 | 12.00 |
| Interval | 5 mm | 5 mm | 5 mm | 5 mm |
| Axial/Helical <br> Thickness | 5 mm | 5 mm | 5 mm | 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 <br> Configuration |  |  | 40 mm | 40 mm |
| Beam Collimation | 20 mm | 20 mm | $120 \mathrm{KV} / 440 \mathrm{~mA}$ |  |
| KV/mA | $120 \mathrm{KV} / 700 \mathrm{~mA}$ | $120 \mathrm{KV} / 440 \mathrm{~mA}$ | Helical 0.7 |  |
| Scan Type | Helical 0.4 | Helical 0.5 | Helical 0.7 |  |

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

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

