

Angio Neck & Head

Siemens go.All

Application Examples: carotid stenosis and/or cerebral vascular abnormalities

Oral Contrast	No
IV Contrast / Volume / Injection Rate (< 240lbs)	Omnipaque 350 / 75 mL / 5 mL/sec
IV Contrast / Volume / Injection Rate (≥ 240lbs)	Omnipaque 350 / 100 mL / 6mL/sec

Technical Factors

Care Bolus ROI Location / HU	Aortic Arch / 85
Monitoring Delay	10 seconds
Cycle Time	0.99 seconds
Scan Delay	4 seconds
Patient Instructions	Do not swallow

Detector Collimator	Acq 32 x 0.7 mm
Care kV	On / 100 kV
Care Dose 4D	On / 110mAs
Rotation Time (seconds)	0.33
Pitch	1.10
Typical CTDIvol	6.63 mGy ± 50%

Topogram: Lateral and AP, 512 mm

CTA Neck & Head	Recon Type	Width / Increment	Algorithm	Safire	Window	FoV	Series Description	Networking	Post Processing
Recon 1	Axial	0.6 x 0.6	Bv36	2	Angio	160	AXIAL	PACS & TR	3D
Recon 2	3D:COR	1 x 1	Bv44	2	Angio	-	COR MIP 1.0	PACS	Coronal MIP
Recon 3	3D:SAG	1 x 1	Bv44	2	Angio	-	SAG MIP 1.0	PACS	Sagittal MIP
Recon 4	3D:AXIAL	10 x 4	Bv40	2	Angio	-	HEAD AXIAL MIP	PACS	Axial MIP
Recon 5	3D:COR	10 x 4	Bv40	2	Angio	-	HEAD COR MIP	PACS	Coronal MIP
Recon 6	3D:SAG	10 x 4	Bv40	2	Angio	-	HEAD SAG MIP	PACS	Sagittal MIP
Recon 7	RT CPR	Radial Vascular Range	Bv40	2	Rotating MIP		RT Carotid CPR	PACS	3D
Recon 8	LT CPR	Radial Vascular Range	Bv40	2	Rotating MIP		LT Carotid CPR	PACS	3D
Recon 9	VRT 3D SPIN (Regional)	Radial Ranges(36)	Br40	2	Pelvis	-	VRT 3D SPIN	PACS	3D
Recon 10	MIP SPIN	Radial Ranges(24)	Bv36	2	Rotating MIP	-	MIP SPIN	PACS	3D

IV Placement: ≥ 18 gauge, *preferably* in **right** antecubital (AC) fossa.

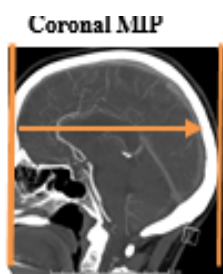
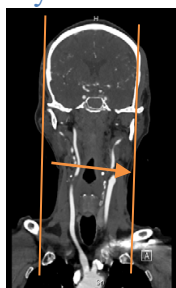
Patient Preparation: Have patient remove any detachable dental work.

Patient Position: Patient lying supine with arms at sides. Tuck chin slightly and position head so the sella is parallel to the gantry in a symmetrical position (no rotation or tilt) with neck in neutral position.

Scan Range: Mid aortic arch through skull vertex.

Scan Instructions: Place pre-monitoring ROI in aortic arch.

Recons and Reformations: Make coronal and sagittal 1 x 1's MIPs to include full data set. Make coronal, sagittal and axial 10x4 MIPs of the head (C2 through vertex) orientated to sella. Align data perpendicular to the floor of the sella (coronal), inter-hemispheric fissure (sagittal), and parallel to sella (axial).



3D: Rotating MIP of bone subtracted carotids, VR of COW, and CPR of each carotid artery. See post processing protocol for further details.

(Regional sites these will be done on scanner)