Gundersen Health System

Angio Head

Siemens go.All

Application Examples: cerebral vascular abnormalities

Oral Contrast	No
IV Contrast / Volume	75 ml Omnipaque 350
Injection Rate	5 mL/sec

Technical Factors

Care Bolus ROI Location / HU	*see scan instructions
Monitoring Delay	10 seconds
Cycle Time	0.99 seconds
Scan Delay	5 seconds
Breath Hold	N/A

Detector Collimator	Acq 32 x 0.7 mm
Care kV	On /100 kV
Care Dose 4D	On /110 mAs
Rotation Time (seconds)	0.33
Pitch	1.10
Typical CTDIvol	25.24 mGy ± 50%

Topogram: Lateral, 256 mm

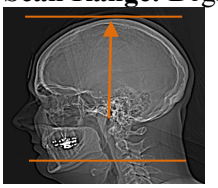
AngioHead	Recon Type	Width / Increment	Algorithm	Safire	Window	FoV	Series Description	Networking	Post Processing
Recon 1	Axial	0.6 x 0.6	Hv36	2	Angio	160	AXIAL	PACS & TR	Rotating MIP & VR
Recon 2	3D:COR	1x 1	Hv44	2	Angio	-	COR MIP 1.0	PACS	Coronal MIP
Recon 3	3D:SAG	1 x 1	Hv44	2	Angio	-	SAG MIP 1.0	PACS	Sagittal MIP
Recon 4	3D:AXIAL	10 x 4	Hv40	2	Angio	-	HEAD AXIAL MIP	PACS	Axial MIP
Recon 5	3D:COR	10 x 4	Hv40	2	Angio	-	HEAD COR MIP	PACS	Coronal MIP
Recon 6	3D: SAG	10 x 4	Hv40	2	Angio	-	HEAD SAG MIP	PACS	Sagittal MIP
Recon 7	VRT 3D SPIN (Regional)	Radial Ranges(36)	Br40	2	Pelvis	-	VRT 3D SPIN	PACS	3D
Recon 8	MIP SPIN	Radial Ranges(24)	Bv36	2	Bone	-	MIP SPIN	PACS	3D

IV Placement: ≥ 18 gauge, *preferably* in 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).

Scan Range: Begin at C2 and scan through skull vertex.



Scan Instructions: *Take pre-monitoring around level of carotid bifurcations (about C2) and place ROI in air. Manually trigger scan as soon as first blush of contrast is in carotid arteries.

Recons and Reformations: Center on circle of willis (COW). Make coronal, sagittal and axial MIPs 10x 4's of head (C2 through vertex) orientated to sella and 1 x1's as depicted below. Align data perpendicular to the floor of the sella (coronal), inter-hemispheric fissure (sagittal), and parallel to sella (axial).

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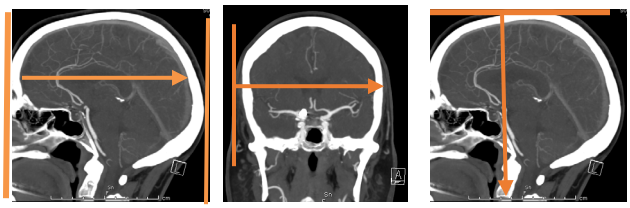
Coronal MIP Sagittal MIP Axial MIP



3D: Rotating MIP of bone subtracted data set. VR of COW. (Regional sites this will be done on scanner) See post processing protocol for further details.