Head Sequential

Siemens 16 Slice

Application Examples: headache, stroke, brain tumor

Oral Contrast	No
IV Contrast / Volume	*If requested, 80 ml Omnipaque 300

Technical Factors

Injection Rate	*Hand bolus all before topogram
Care Bolus ROI Location / HU	N/A
Monitoring Delay	N/A
Cycle Time / Scan Delay	3.0s / 3.0s
Scan Delay	*5 minutes if IV contrast given
Breath Hold	N/A

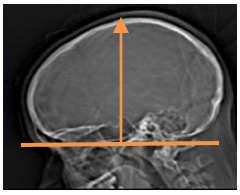
Scan type	Sequential
Detector Collimator	Acq 12 x 1.2 mm
kV / mAs / Scan Time (seconds)	130 kV / 270 mAs / 1.0 - FULL
Care Dose 4D	Off
Feed	14.4
Typical CTDIvol	63.45 mGy

Topogram: Lateral, 256 mm

Head	Width / Increment	Kernel	Window	FoV	Series Description	Networking
Recon 1	4.8 x 4.8	H40s	Cerebrum	250	AXIAL	PACS
Recon 2	1.2 x 1.2	H40s	Cerebrum	250	AXIAL 1.2 STND	MPR / TeraRecon

This protocol scans in sequence mode and used for routine head studies.

Patient Position: Position head so the GML is perpendicular to table in a symmetrical position (no rotation or tilt). Axial images should be acquired parallel to a line drawn from the base of the skull to the glabella as depicted below.

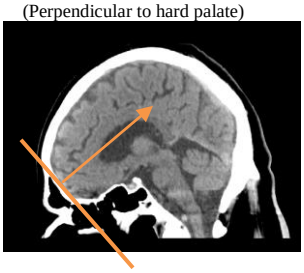


Scan Range: Scan from skull base through vertex in caudocranial direction.

Reformations: If patient is not in ideal position, create axial MPR images parallel to a line drawn from the base of the skull to the glabella. Also, create coronal and sagittal MPRs. The only exclusion for coronal and sagittal MPRs is STROKE protocol—does NOT need coronal or sagittal MPRs because time is critical.

Series: Head	Reformat Type	Width / Increment	Window	Series Description	Networking
Recon 2	Axial MPR	5 x 5	Cerebrum	AXIAL MPR	PACS
Recon 2	Coronal MPR	3 x 3	Cerebrum	COR	PACS
Recon 2	Sagittal MPR	3 x 3	Cerebrum	SAG	PACS

Coronal MPR
(Perpendicular to hard palate)



*If IV contrast enhancement is requested, inject contrast bolus 5 minutes prior to scanning. Enhancement application examples include: tumor, metastatic disease, abscess, or if an MRI cannot be done. Only need coronal and sagittal MPRs from contrast enhanced data set if ordered with and without contrast.