



CTA Head (Circle of Willis)

GE Revolution

Approval: E Alvarez, MD

12/2025

INDICATION		Aneurysm, TIA, CVA						
POSITION / LANDMARK		Supine / SN						
START/END LOCATIONS		Mandible to vertex of head Scan direction - Caudal/Cranial						
CONTRAST PARAMETERS		50cc, 4cc per second						
RESPIRATORY PHASE		na						
SCAN DELAY		SMART prep @ aortic arch						
SCAN TYPE		Helical						
	KV	mA	Rot Time (sec)	Pitch	Speed (mm/rot)	Noise Index	ASiR	Dose Reduction
	120	Smart mA 100-440	0.5	0.531:1	10.62	5.2		
TECHNIQUE		Using automated exposure control and adjustment of the mA and/or kV according to patient size, radiation dose to be kept as low as reasonably achievable to obtain optimal diagnostic quality images.						
Scans								
Series #	Series	Body Part	DFOV	Thick/Space	Algorithm	Notes		
1	Loc					AP/Lat		
2	Source data	Head	20	2.5x1.25	STND	400/40 Do not send to PACS, use for recons		
Recons								
Recon source Series #	Recon	Body Part	Thick / Space	Algorithm	W/L	Notes		
2	AX	Head	1.25x0.625	STND	300/30			
AX 1.25x0.625	COR	Head	1.25x0.625	STND	300/30			

*Please note, recons are displayed as thickness X spacing



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AX 1.25x0.625	AX	Head	20x2	STND		
AX 1.25x0.625	COR	Head	20x2	STND		
AX 1.25x0.625	SAG	Head	20x2	STND		
2D / 3D Processing						
Source: Axial STND with 1.25x0.625 standard window						
<ol style="list-style-type: none"> 1. MIP and VR rotation left to right – rotate 360 with 36 images 2. MIP and VR rotation inferior to superior – rotate 360 with 36 images 						
Series required in PACS						
Loc, Dose Report, ALL recons, ALL 3D post processed images						

ADDITIONAL INSTRUCTIONS:

*Please note, recons are displayed as thickness X spacing