



Stroke Alert CTA HEAD and NECK

GE Revolution

Approval: E Alvarez, MD

12/2025

INDICATION		Stroke alert – CTA Head/Neck						
POSITION / LANDMARK		Supine / SN						
START/END LOCATIONS		Head/Neck source – below arch through vertex of head Neck recons - include aortic arch to above COW Head recons - mandible to vertex of head						
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 200-560	0.5	0.984:1	39.37	9.0		
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/Neck	25	2.5x1.25	STND			
Recons								
Recon source Series #	Recon	Body Part	Thick / Space	Algorithm	W/L	Notes		
2	AX	Head	1.25x0.625	STND				
2	AX	Neck	1.25x0.625	STND				

*Please note, recons are displayed as thickness X spacing

AX Head 1.25x 0.625	COR	Head	1.25x0.625	STND		
AX Neck 1.25x 0.625	COR	Neck	1.25x0.625	STND		
AX Head 1.25x 0.625	AX	Head	20x2	STND		
AX Head 1.25x 0.625	COR	Head	20x2	STND		
AX Head 1.25x 0.625	SAG	Head	20x2	STND		
AX Neck 1.25x 0.625	COR	Neck	20x2	STND		include COW to arch. P to A
AX Neck 1.25x 0.625	SAG	Neck	20x2	STND		

2D / 3D Processing

CTA Carotid

Source: Axial with 1.25x0.625 standard window

1. Sagittal Left bifurcation STS 20x2 (M to L)
2. Sagittal Right bifurcation STS 20x2 (M to L)
3. Left carotid Centerline rotation (full carotid S to I) – rotate 360 with 36 images
4. Right carotid Centerline rotation (full carotid S to I) – rotate 360 with 36 images

CTA COW

Source: Axial with 1.25x0.625 standard window

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, source,

ALL recons:

AX Head 1.25x0.625

*Please note, recons are displayed as thickness X spacing

AX	Neck	1.25x0.625	
COR	Head	1.25x0.625	
COR	Neck	1.25x0.625	
AX	Head	20x2	
COR	Head	20x2	
SAG	Head	20x2	
AX	Neck bifurcations	1.25x0.625	
COR	Neck	20x2	
SAG	Neck	20x2	

ALL 3D post processed:

CTA Carotid

1. Sagittal Left bifurcation STS 20x2
2. Sagittal Right bifurcation STS 20x2
3. Left carotid Centerline rotation
4. Right carotid Centerline rotation

CTA COW

1. MIP and VR rotation left to right
2. MIP and VR rotation inferior to superior

ADDITIONAL INSTRUCTIONS:

If any 3D post-processing (including, but not limited to, volume renderings, curved planar reformats, or vessel measurements) is anticipated to add more than five (5) minutes of delay to the delivery of critical results, such post-processing should be omitted. The imaging protocol should otherwise be followed as listed, including acquisition of required thin slices, specified multiplanar reformats (MPRs), and console generated maximum intensity projections (MIPs).