

# CTA NECK HEAD GE 16

<b>Indications</b>	Severe Headache, dizziness, memory loss, slurred speech, blurred vision, weakness				
<b>Diagnostic Task</b>	Detect Vascular disease, aneurysm evaluation, Acute Stroke				
<b>Scan mode</b>	Helical				
<b>Position/Landmark</b>	Head first Supine Sternal notchS250-I150				
<b>Topogram</b>	Lat mA 10 kV 120				
<b>kVp/Reference mass</b>	NC brain 120kv mA 300//CTA kV 120 Smart mA (100-440)				
<b>Rotation time/pitch</b>	NC Brain 1.0/0.562:1//CTA 0.7/1.375:1				
<b>Detector Configuration</b>	NC Brain16x0.625//CTA 16x0.625				
<b>Table Speed/Increment</b>	NC Brain5.62//CTA 13.75				
<b>Dose reduction</b>	Noise Index 7.00				
<b>Allowed CTDI ranges*</b>	30mGy-80mGy				
<b>XR29 Dose Notification value</b>	80mGy				
<b>Helical Set</b>		body	thickness		recon
	recon	part	spacing	algorithm	destination
	1	brain thin	1.25mmx 1.25mm	standard	mpr
	2	brain	5mmx 5mm	standard	pacs
	3	bone	1.25mmx1.25mm	bone	pacs
	3	sag brain	1mmx1mm	standard	pacs
4	coronal brain	1mmx1mm	standard	pacs	
<b>Helical Set CTA head/neck</b>		body	thickness		recon
	recon	part	spacing	algorithm	destination
	1	cta brain	0.625mmx0.625mm	standard	pacs
	2	coronal cow MIP	5mmx2mm	standard	pacs
	3	sag cow MIP	5mmx2mm	standard	pacs
	4	axial cow MIP	20mmx5mm	standard	pacs
	5	coronal carotid MIP	4mmx1mm	standard	pacs
	6	rt sag oblique carotid MIP	1mmx1mm	standard	pacs
	7	lt sag oblique carotid MIP	1mmx1mm	standard	pacs
	8	sag neck MPR	2mmx2mm	standard	pacs
	9	sag brain MPR	1mmx1mm	standard	pacs
10	coronal brain MPR	1mmx1mm	standard	pacs	
<b>Scan Start/end location</b>	NC brain1cm below maxilla in include sinus//CTA 1cm below aortic arch				
	NC brain 1cm above skull vertex//CTA 1cm above skull vertex				
<b>DFOV</b>	nc brain:25cm cta:18cm				
<b>IV contrast volume/type</b>	60ml isovue 370 4cc/sec-Performed as directed by the supervising radiologist contrast should be injected into RT arm if possible				
<b>Scan delay</b>	Smart Prep in Aortic arch-manually trigger when graph hits 90				
<b>NOTE*</b>	<p>The Diagnostic Reference Dose (CTDI vol) is 75mGy(with 16cm CTDI phantom). The pass/fail limit (ACR and Washington state) is 80mGy. Most routine head scans on modern scanners have CTDIvol ranges between 40 and 60mGy.</p> <p>*The AAPM recommended NEXA XR29 Dose Notification Value for an adult head is 80mGy. The maximum CTDIvol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless</p>				