CTA BRAIN GE 64

Indications	Severe Headache, dizziness, memory loss, slurred speech, blurred vison, weakness			
Diagnostic Task	Detect Vascular disease, aneurysm evaluation, Acute Stroke			
Scan mode	Helical			
Position/Landmark	Head first Supine S150-I100			
Topogram	Lat mA 80 kV 120 AP			
kVp/Reference mass	kv 120 Auto mA NC (200-350) CTA (200-500)			
Rotation time/pitch	NC brain 0.8/0.531:1//CTA 0.5/0.516:1			
Detector Configuration	NC brain 64x0.625//CTA 64x0.625			
Table Speed/Increment	NC brain 10.62//CTA 20.62			
Dose reduction	Noise Index 8.00			
Allowed CTDI ranges*	30mGy-80mGy			
XR29 Dose Notification value	100mGy			
Helical Set	body	thickness		recon
	recon part	spacing	algorithm	destination
	1 brain thin	1.25mmx 1.25mm	standard	pacs
	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
Helical Set	body	thickness		recon
CTA Brain	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 MIP	20mmx5mm	standard	pacs
	5 sag brain MPR	1mmx1mm	standard	pacs
	6 coronal brain MPF	R 1mmx1mm	standard	pacs
Scan Start	NC brain 1cm below maxilla in include sinus//CTA two inches below base of skull			
END	NC brain 1cm above skull vertex//CTA 1cm above skull vertex			
DFOV	nc brain:25cm cta:18cm			
IV contrast volume/type	60ml isovue 370 4cc/sec-Performed as directed by the supervising radiologist contrast should be injected into RT arm if possible			
Scan delay	Smart Prep @40mA-manually initiate scan when 110 threshold is reached			
	monitor location is at the same locaton as 1st image of scan			
NOTE*	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. *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			
	approved by a radiologist.			