

CTA Neck Head 64 Toshiba

Indications	Severe Headache, dizziness, memory loss, slurred speech, blurred vision, weakness				
Diagnostic Task	Detect Vascular disease, aneurysm evaluation, Acute Stroke				
Scan mode	Helical				
Position/Landmark	Head or feet first-Supine				
Topogram	Lat 50mA 120kV AP 50mA 120kV				
kVp/Reference mass	NC head//Sure Exp 3D// off on CTA				
Rotation time/pitch	NC head0.75/0.656//CTA 0.5/0.641				
Detector Configuration	NC Head 32x0.5//CTA 64x0.5				
Table Speed/Increment	NC Head 10.5//CTA 20.5				
Dose reduction	NC Sure Exp 3D // CTA off				
Allowed CTDI ranges*	30mGy-80mGy				
XR29 Dose Notification value	80mGy				
Helical Set	body thickness				recon
NC brain	recon	body part	thickness spacing	algorithm	recon destination
	1	brain	1mmx 1mm	standard	pac
	2	bone	1mmx1mm	bone sharp	pac
	3	brain	5mmx5mm	standard	pac
	4	sag brain	1mmx1mm	standard	pac
	5	coronal brain	1mmx1mm	standard	pac
Helical Set	body thickness				recon
CTA Brain	recon	body part	thickness spacing	algorithm	recon destination
	1	cta neck/head	0.5mmx0.5mm	standard	pac
	2	coronal cow MIP	5mmx2mm	standard	pac
	3	sag cow MIP	5mmx2mm	standard	pac
	4	axial cow MIP	20mmx5mm	standard	pac
	5	coronal carotid MIP	4mmx1mm	standard	pac
	6	lt sag oblique MPR	1mmx1mm	standard	pac
	7	rt sag oblique MPR	1mmx1mm	standard	pac
	8	sag neck MPR	2mmx2mm	standard	pac
	9	sag brain MPR	1mmx1mm	standard	pac
	10	coroanl brain MPR	1mmx1mm	standard	pac
Scan Start/End	NC brain 1cm below maxilla in include sinus//CTA 1cm above skull vertex				
	NC brain 1cm above skull vertex//CTA 1cm below aortic arch				
DFOV	nc brain:25cm cta:18cm				
IV contrast volume/rate	60ml isovue 370 4cc/sec-Performed as directed by the supervising radiologist				
	contrast should be injected into RT arm if possible				
	Sure start trigger=watch for carotid blush @ C2 level				
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.				