

# CTA BRAIN 64 Toshiba

<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 or feet first-Supine				
<b>Topogram</b>	Lat 50mA 120kV AP 50mA 120kV				
<b>kVp/Reference mass</b>	Sure Exp 3D(40-300)				
<b>Rotation time/pitch</b>	NC head0.75/0.656//CTA 0.75/0.656				
<b>Detector Configuration</b>	NC Head 32x0.5//CTA 32x0.5				
<b>Table Speed/Increment</b>	NC Head 10.5//CTA 10.5				
<b>Dose reduction</b>	Sure Exp 3D				
<b>Allowed CTDI ranges*</b>	30mGy-80mGy				
<b>XR29 Dose Notification value</b>	80mGy				
<b>Helical Set</b>					<b>recon</b>
<b>NC brain</b>	<b>recon</b>	<b>body part</b>	<b>thickness spacing</b>	<b>algorithm</b>	<b>recon destination</b>
	1	brain	1mmx 1mm	standard	pacs
	2	bone	1mmx1mm	bone sharp	pacs
	3	brain	5mmx5mm	standard	pacs
	4	sag brain	1mmx1mm	standard	pacs
	5	coronal brain	1mmx1mm	standard	pacs
<b>Helical Set</b>					<b>recon</b>
<b>CTA Brain</b>	<b>recon</b>	<b>body part</b>	<b>thickness spacing</b>	<b>algorithm</b>	<b>recon destination</b>
	1	cta brain	0.5mmx0.5mm	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 MPR	1mmx1mm	standard	pacs
<b>Scan Start</b>	NC brain1cm below maxilla in include sinus//CTA two inches below base of skull				
<b>END</b>	NC brain 1cm above skull vertex//CTA 1cm above skull vertex				
<b>DFOV</b>	25cm -decrease appropriately				
<b>IV contrast volume/rate</b>	60ml isovue 370 4cc/sec-Performed as directed by the supervising radiologist				
	contrast should be injected into RT arm if possible				
	manual start-watching for carotid blush				
<b>NOTE*</b>	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.				