

ROUTINE BRAIN 64 Toshiba

Indications	Intracranial bleed, mental status change, trauma, general screening, headache				
Diagnostic Task	Detect collections of blood; identify brain masses; detect brain edema or ischemia; identify shift in the normal locations of the brain				
Scan mode	Helical				
Position/Landmark	Head or feet first-Supine				
Topogram	Lat 50mA 120kV				
kVp/Reference mass	Sure Exp 3D(40-300)				
Rotation time/pitch	0.75/0.656				
Detector Configuration	32x0.5				
Table Speed/Increment	10.5				
Dose reduction	Sure Exp 3D				
Allowed CTDI ranges*	30mGy-80mGy				
XR29 Dose Notification value	80mGy				
Helical Set	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
Scan Start/End	1cm below maxilla in include sinus				
	1cm above skull vertex				
DFOV	25 cm decrease appropriately				
IV contrast volume/rate	80ml isovue 370 2cc/sec-Performed as directed by the supervising radiologist				
Scan Delay	90 second delay				
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.				