

# ROUTINE BRAIN GE 16

Indications	Intracranial bleed, mental status change, trauma, general screening, ha					
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 first Supine S150-I75					
Topogram	Lat mA 10 kV 120					
kVp/Reference mass	kv 120 Smart mA (100-420)					
Rotation time/pitch	1.0sec/0.562:1					
Detector Configuration	16x0.625					
Table Speed/Increment	10mm					
Dose reduction	Noise Index 7.0					
Allowed CTDI ranges*	7mGy-80mGy					
XR29 Dose Notification value	80mGy					
Helical Set		body	thickness		recon	
		recon	part	spacing	algorithm	destination
	1	brain	5mmx 5mm		standard	pacs
	2	brain thin	1.25mmx1.25mm		standard	mpr
	3	bone	1.25mmx1.25mm		bone	pacs
	3	sag brain	1mmx1mm		standard	pacs
4	coronal brain	1mmx1mm		standard	pacs	
Scan Start/end location	1cm below maxilla in include sinus					
	1cm above skull vertex					
DFOV	25 cm decrease appropriately					
IV contrast volume/type	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.

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