

CTA CAROTID 16 Sensation

Indications	Severe headaches, memory loss, slurred speech, dizziness, blurred or double vision.					
Diagnostic Task	Detect carotid aneurysms, narrowing or a blockage of arteries					
Scan mode	Helical					
Position/Landmark	Head first or feet first-Supine 1cm superior to eam					
Topogram	lateral 50mAs 120kVp					
kVp/Reference mass	120kv 250mAs					
Rotation time/Pitch	0.5/ 1.0					
Detector Configuration	16x0.75					
Table Speed	12					
Dose reduction	Care Dose 4D					
Allowed CTDI ranges*	30mGy-80mGy					
XR29 Dose Notification value	80mGy					
Helical Set	body	thickness	recon			
	recon part	spacing	kernel	window	destination	
	1 neck cta	.75mmx.7	20 smooth	mediastinum	pacs/mpr	
Scan Start/End	1cm below aortic arch					
	1cm above circle of willis					
DFOV	25cm decrease appropriately					
IV contrast volume/rate	60ml isovue 370 3-4cc/se Performed as directed by the supervising radiologist					
	contrast should be injected into RT arm if possible					
Scan Delay	bolus track at arch, trigger is + 60					
3d technique used	1x1 It and rt oblique carotid MPR from recon 1					
	4x1 coronal MIP from recon 1					
	2x2 sag MPR from recon 1					
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					