CTA BRAIN 16 sensation

Indications	Severe Headach	dizzinese memory	ose slurred speech	hlurred vison wookn	2000
	Severe Headache, dizziness, memory loss, slurred speech, blurred vison, weakness				
Diagnostic Task	Detect Vascular disease, aneurysm evaluation, Acute Stroke				
Scan Mode	Helical				
Position/Landmark	Head first -Supine1cm superior to skull vertex-Craniocaudal				
Topogram	Lat				
kVp/Reference mass	nc brain: 120 kV 320 350mA//CTA 120kV 300mA				
Rotation time/pitch	NC brian 1/0.6//CTA 0.5/.6				
Detector Configuration	NC brain 16x0.75//CTA 16x.75				
Table Speed/Increment	NC brain 7.2//CTA 7.2				
Dose reduction	na//CareDose 4D				
Allowed CTDI ranges*	30mGy-80mGy				
XR29 Dose Notification value	80mGy				
Helical Set	boo	dy thicknes	ss		recon
Non-con brain	recon part	spacing	kernel	window	destination
	1 brain	1mmx 1mm	31medium smo	oth cerebrum	pacs
	2 skull	1mmx1mm	H60 sharp	neuro bone	e pacs
	3 axial brain	5mmx 5mm	31medium smo	oth cerebrum	pacs
	4 thin brain	0.75x0.7mm	31medium smoo	th cerebrum	mpr
3d technique	1mmx1mm sa	g/coronal brain fro	m recon 4		
Helical Set	body	thickness			recon
	recon part	spacing	kernel	window	destination
	1 brain cta	.75mmx.7	20 smooth	mediastinum	pacs/mpr
3d technique	20x5mm axial	MIP from recon 1			
·	5x2mm sag/coronal MIP from recon 1				
	1x1mm sag/coronal MPR from recon 1				
Scan Start	NC brain 1cm below maxilla in include sinus//CTA two inches below base of skull				
end	NC brain 1cm above skull vertex//CTA 1cm above skull vertex				
DFOV	nc brain:25cm cta:18cm				
	decrease appropriately				
IV contrast volume/rate	80ml isovue 370 4cc/sec				
- Contrast volume/rate	contrast should be injected into RT arm if possible				
Scan Delay	bolus track at c3, trigger is + 60				
Scall Delay	bolus track at 63, trigger is ± 00				

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.