

CTA BRAIN GO UP

Indications	Severe Headache, dizziness, memory loss, slurred speech, blurred vision, weakness						
Diagnostic Task	Detect Vascular disease, aneurysm evaluation, Acute Stroke						
Scan Mode	Helical						
Position/Landmark	Head first -Supine 1cm superior to skull vertex-Craniocaudal						
Topogram	Lat 130kV 30mA						
kVp/Reference mass	nc brain: 130 kV 206mA//CTA 80kV 94mA						
Rotation time/pitch	NC brain 1/0.55//CTA 0.8/1.5						
Detector Configuration	32x0.7						
Table Speed/Increment	NC brain 12.32//CTA 33.6						
Dose reduction	na//CareDose 4D						
Allowed CTDI ranges*	30mGy-80mGy						
XR29 Dose Notification value	80mGy						
Helical Set							
Non-con brain	recon	body part	thickness spacing	kernel	window		recon destination
	1	brain	1.5mmx 1.5mm	Hv40	cerebrum		pac
	2	skull	1.5mmx1.5mm	Hr60	bone		pac
	3	axial brain	5mmx 5mm	Hv40	cerebrum		pac
	4	Sag	1.5mmx1.5mm	Hv40	cerebrum		pac
	5	Cor	1.5mmx1.5mm	Hv40	cerebrum		pac
Helical Set							
	recon	body part	thickness spacing	kernel	window		recon destination
	1	brain cta	.8mmx.6	Hv36	angio		pac
	2	Cor Cow	1mmx1mm	Hr44	angio		pac
	3	sag cow	1mmx1mm	Hr44	angio		pac
	4	Cor Mip	5mmx2mm	Hr44	angio		pac
	5	Sag Mip	5mmx2mm	Hr44	angio		pac
	6	axial mip	20mmx5mm	Hr44	soft tissue		pac
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 should be injected into RT arm if possible						
Scan Delay	bolus track at c3, trigger is +100						
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.
