

CTA CAROTID INTRACRANIAL

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HDI/VDI					
Patient position:	Supine Head First				
Exam specific instructions:					
Indication:	Stroke, dizziness, syncope, carotid/bruit, vascular disease/malformation, trauma				
Notes:	If there is no separate order for non-con Head, check with RAD to see if needed				
CONTRAST:	Oral:	None			
	IV:	75mL Omnipaque 350 + 20ml Saline Pre-Flush and 30ml Saline Post-Flush @ 5mL/sec			
 SERIES 1: Dual Scout	GE 120 kV/10 mA				
GE	GE 64 2nd FL	GE 64 ER	GE 64 OLY	GE CT ES ER (1.3)	PET CT
	OM S150/I300	OM S150/I300	OM S150/I300	OM S150-I300	
 SERIES 2: Draw circle ROI on Aortic Arch					
GE	GE 16	GE 64	GE 64 OLY	GE CT ES ER	PET CT
Smart Prep					
On	Active	Active	Active	Active	
Dynamic transition	Active	Active	Active	Active	
Monitor location	I200	I200	I200	I200	
mA	40	40	mA 80	50	
Monitor delay	8	8	8	8	
Monitoring ISD	1	1	1	1	
Threshold	80	100	80	50	
Auto localizer	Active	Active	Active	Active	
Voice message	Off	4/Active	Active	Active	
Auto min delay	Off	Active	Active	Active	
 SERIES 3: Scan caudocranial from mid arch through vertex of the head.					
GE	GE 16	GE 64	GE 64 OLY	GE CT ES ER	PET CT
Scan Type	Helical	Helical	Helical	Helical	
Detector Config	40	40	64x0.625	40	
Rotation	0.4	0.4	0.4	0.5	
Speed	0.9/39.37	/39.37	/39.37	0.9/	
SFOV	Small Body	Small Body	Small Body	Large Body	
kV	120	120	120	120	
mA Range	200-525	200-525	?	200-525	
NI	5.2	5.2	9.9	6.2	
Prep Group	N/A	Smart Prep	Smart Prep	Smart Prep	
DFOV	20	18	18	20	
% Dose Reduction	40	40	40	N/A	
ASIR	40	40	50	40	
CTDI Range (mGy)	9.15	9.61	10-24	18.15	
XR29 Dose Notification	50	50	50	50	

	RECON	RECON	REFORMAT 1	REFORMAT 2	RECON
Series Descripton	Thin Head/Neck	Thin Head	Carotid Cow	Coronal MPR 1X1	Lung
Type	Axial	Axial	Axial	Coronal	Axial
Start	Carina	Base of Skull	Carina	Frontal Sinus	Lung Apex
End	Skull vertex	Skull vertex	Skull vertex	Posterior Skull	Carina

Angle	0	0	0	Perpendicular to planum sphenoidale	0
Image Order	Craniocaudal	Craniocaudal	Craniocaudal	Ant to Post	Cranialcaudal
Filter	Standard (B)	Standard (B)	Standard (B)	Standard (B)	Standard (B)
Windowing	C300/W800	C300/W800	C300/W800	C300/W800	C300/W800
Render Mode	Average	Average	Average	Average	Average
Slice	0.67	0.67	1.25	1	2.5
Increment	0.67	0.67	1.25	1	2.5
FOV in mm	200	200	200	200	200

	REFORMAT 3	REFORMAT 4	REFORMAT 5	RECON	RECON
Series Descripton	Head MIP 7X1	Head MIP 7X1	Head MIP 7X1	MIP Basilar	Neck MPR
Type	Axial	Sagittal	Coronal	Coronal	Sagittal
Start	Base of Skull	Left	Frontal Sinus	Anterior	Left
End	Skull Vertex	Right	Posterior Skull	Posterior	Right
Angle	0	0	Perpendicular to planum sphenoidale	Pt Dependent	0
Image Order	Cranialcaudal	Left to Right	Ant to post	Ant to Post	Left to Right
Filter	Standard (B)	Standard (B)	Standard (B)	Standard (B)	Standard (B)
Windowing	C300/W800	C300/W800	C300/W800	C300/W800	C300/W800
Render Mode	Mip	Mip	MIP	MIP	MPR
Thickness	7	7	7	7	1
Increment	1	1	1	1	1
FOV in mm	200 x 300	200 x 300	200 x 300	50	200 x 300

	REFORMAT 6	RECON	REFORMAT 7	REFORMAT 8
Series Descripton	Neck MIP 7X1	OVERLAY	VR Cow	VR Cow
Type	Coronal	Rotation	Rotation	Tumble
Start	Anterior	Skull Vertex	Skull Vertex	Skull Vertex
End	Posterior	Carina	Base of Skull	Base of Skull
Angle	Pt Dependent	0	0	0
Image Order	Ant to Post	Rotate Left	Rotate Left	Rotate Ant
Filter	Standard (B)	Standard (B)	Standard (B)	Standard (B)
Windowing	C300/W800	C300/W800		
Render Mode	MIP	MIP	VR	VR
Thickness	7	36 Images	36 Images	36 Images
Increment	1	36 Images	36 Images	36 Images
FOV in mm	200 x 300	200	200	200

Send to PACs
Approving Radiologist / Review Date: Dr. Jacob Thomas 1/21/2020