

CTA INTRACRANIAL

Protocol to Use	1.3 CTA Carotid Intracranial and Venogram				
HDI/VDI					
Patient position:	Supine Head First				
Exam specific instructions:	CTA Head(Intracranial) extends from the base of the skull to the vertex				
Indication:	Stroke, dizziness, syncope, 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 kV/mA				
GE	GE 64 2nd FL	GE 64 ER	GE 64 OLY	GE CT ES ER	PET CT
	OM S150/I300	OM S150/I300	OM S150/I300		
 *Smart Prep* Draw circle ROI on Aortic Arch					
GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CT ES ER	PET CT
Smart Prep					
On	Active	Active	Active		
Dynamic transition	Active	Active	Active		
Monitor location	Aortic Arch	I200	Aortic Arch		
mA	40	40	40		
Monitor delay (sec)	8	8	8		
Monitoring ISD	1	1	1		
Enhance Thres	80	100	80		
Auto localizer	On	On	On		
Voice message	Off	On	Off		
Auto min delay	Off	On	Off		
XR29 Dose Notification	50	50	50		
 SERIES 2: Scan caudocranial from base of skull through vertex of the head					
GE	GE 64 2nd FL	GE 64 ER	GE 64 OLY	GE CT ES ER	PET CT
Smart Prep					
Scan Type	Helical	Helical	Helical		
Detector Config	40 mm	40mm	40 mm		
Rotation	0.4	0.4	0.4		
Speed	0.9/39	0.9	0.9/39		
SFOV	Small Body	Small Body	Small Body		
kV	120	120	120		
mA Range	200-525	200-525	200-525		
NI	5.2	5.2	5.2		
Prep Group	N/A	N/A	N/A		
DFOV	20 mm	20mm	20 mm		
% Dose Reduction	40	40	40		
ASIR	40	40	40		
CTDI Range (mGy)	9.15	9.61	9.15		
XR29 Dose Notification	50	50	50		

RECON 1
RECON 2
REFORMAT 1
REFORMAT 2
RECON 3

Series Descripton	CTA Axial	Thin Carotid	MIP Cor 7X1	Sagittal ST	Thin Head
Type	Axial	Axial	Coronal	Sagittal	Axial
Start	I250	I250	Frontal Sinus	Left	Skull Vertex
End	S300	S300	Posterior Skull	Right	Base of Skull
Angle	0	0	0	0	0
Image Order	Caudocranial	Caudocranial	Anterior to Posterior	Left to right	Caudocranial
Filter	Standard	Standard	Standard	Standard	Standard
Windowing	C80/W800	C80/W800	C80/W800	C80/W800	C300/W800
Render Mode	Average	Average	MIP	Average	Average
Thickness	1.25	0.625	7	7	0.625
Increment	1.25	0.625	1	2.5	0.625
FOV in mm	20	20	20	20	20

	REFORMAT 3	REFORMAT 4	REFORMAT 5	REFORMAT 6	REFORMAT 7
Series Descripton	MIP Axial 7X1	MIP Cor 7X1	MIP Sag 7X1	Cor 1X1	Basilar
Type	Axial	Coronal	Sagittal	Coronal	Sagittal
Start	Skull Vertex	Frontal Sinus	Left	Frontal Sinus	Frontal Sinus
End	Base of Skull	Posterior Skull	Right	Posterior Skull	Posterior Skull
Angle	0	0	0	0	0
Image Order	Anterior to Posterior	Anterior to Posterior	Left to right	Anterior to Posterior	Anterior to Posterior
Filter	MIP	MIP	MIP	Standard	Standard
Windowing	C300/W800	C300/W800	C300/W800	C300/W800	C300/W800
Render Mode	MIP	MIP	MIP	Average	Average
Thickness	7	7	7	1	7
Increment	1	1	1	1	2.5
FOV in mm	20	20	20	20	20

	RECON 4	RECON 5
Series Descripton	Lung	Thin CTA
Type	Axial	Axial
Start	Apices	Skull Vertex
End	Carina	Base of Skull
Angle	0	0
Image Order	Caudocranial	Caudocranial
Filter	Lung	Standard
Windowing	C-500/W2000	C80/W800
Render Mode	Average	Average
Thickness	2.5	0.625
Increment	2.5	0.625
FOV in mm	32	20

Send to PACs
Approving Radiologist / Review Date: Dr. Jacob Thomas 2022