

CTA AORTA DISSECTION

Protocol Title	5.4 CTA AORTA DISSECTION				
HDI/VDI					
Patient position:	Supine feet first				
Exam specific instructions:					
Indication:	Chest pain with back pain. Known or possible dissection				
Notes:					
CONTRAST:	Oral:	None			
	IV:	100mL Omnipaque 350 / 30ml saline flush @ 5mL/s			
 SERIES 1: Dual Scout	GE 120kV/10mA				
GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
	SN S50/I750	SN S50/I750		SN S60/I750	
 SERIES 2: *Chest W/O* Scan above chest to adrenals					
GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
Scan Type	Helical	Helical		Helical	
Detector Config	40mm	40mm		80mm	
Rotation	0.5	0.5		0.5	
Speed/Pitch	1.375/55	1.375/55		0.992/1	
SFOV	Large Body	Large Body		Large Body	
kV	120	120		120	
mA Range	150 - 500	150-500		100-550	
NI	15.86	15.86		15.4	
Prep Group	N/A	NA		N/A	
DFOV	36	36		36	
% Dose Reduction	40	40		40	
ASIR	40	40		40	
CTDI Range (mGy)	9.34	9.34		9.36	
XR29 Dose Notification	50	50		50	
 SERIES 3: *Smart Prep* Draw circle ROI on Aortic Arch					
GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
Smart Prep					
On	Active	Active		Active	
Dynamic transition	Active	Active		Active	
Monitor location	I150	I150		I150	
mA	40	40		40	
Monitor delay	8 sec	8 sec		8 sec	
Monitoring ISD	1.5 sec	1.5 sec		1.0 sec	
Threshold	120	120		100	
Auto localizer	Active	Active		Active	
Voice message	2 Active	2 Active		Active	
Auto min delay	Active	Active		Active	
 SERIES 4: *Arterial* Scan above shoulders to lesser trochanters					
GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
Scan Type	Helical	Helical		Helical	
Detector Config	64x0.625	64x0.625		80mm	
Rotation	0.4	0.4		0.5	

Speed	39.37	39.37		0.992/1	
SFOV	Large Body	Large Body		Large Body	
kV	120	120		120	
mA Range	75-560	75-560		100-550	
NI	15.86	15.86		15.4	
Prep Group	Smart Prep	Smart Prep		Smart Prep	
DFOV (cm)	36	36		36	
% Dose Reduction	40	40		40	
ASIR	40	40		40	
CTDI Range (mGy)	11.65	11.65		19.36	
XR29 Dose Notification	50	50		50	

	SERIES 1	SERIES 2	SERIES 3	SERIES 4	SERIES 5
Series Descripton	Chest W/O	Super D	Thin Axial	Dissection	MIP Coronal Aorta
Type	Axial	Axial	Axial	Axial	Coronal
Start	Above Chest	Above Chest	Above Chest	Above Chest	?
End	Adrenals	Adrenals	To Lesser Trochanters	To Lesser Trochanters	?
Angle	0	0	0	0	0
Image Order	Craniocaudal	Craniocaudal	Craniocaudal	Craniocaudal	Ant to Post
Filter	Standard	Standard	Standard	Standard	Standard
Windowing	C60/W400	C60/W400	C40/W500	C40/W500	C300/W800
Render Mode	Average	Average	Average	Average	MIP
Slice (mm)	2.5	1	0.625	2.5	4
Increment (mm)	2.5	0.8mm	0.625	2	2
FOV in mm	350	350	350	350	350

	SERIES 6	SERIES 7	SERIES 8	SERIES 9	SERIES 10
Series Descripton	MIP Sagittal Aorta	MIP Arch	Thin Lung	MIP Axial Lung	Lung
Type	Sagittal	Oblique?	Axial	Axial	Axial
Start	Mid Kidney	Anterior Arch	Above apices	Above apices	Above apices
End	Mid Kidney	Posterior Arch	Adrenals	Adrenals	Adrenals
Angle	0	0	0	0	0
Image Order	Left to Right	Ant to Post	Craniocaudal	Craniocaudal	Craniocaudal
Filter	Standard	Standard (B)	Lung	Lung	Lung
Windowing	C300/W800	C300/W800	C-500/W2000	C-500/W2000	C-500/W2000
Render Mode	MIP	MIP	Average	MIP	Average
Thickness (mm)	4	4	0.9	20	2.5
Increment (mm)	2	2	0.9	2.5	2.5
FOV in mm	350	180	350	350	350

Send to PACs
Approving Radiologist / Review Date: Dr. Praveen Rao 4/26/2023