

PE+LOWER EXTREMITY VENOGRAM

Protocol Title	5.6 CTPA W/Venogram				
HDI/VDI					
Patient position:	Supine Feet First				
Exam specific instructions:	When transitioning to venogram smart prep, watch images for equal enhancement of the artery and vein. This can take 2-4 minutes				
Indication:	Chest pain, pulmonary embolism(acute/chronic), hemoptysis. Source of emboli.				
Notes:					
CONTRAST:	Oral:	None			
	IV:	125mL Omnipaque 350 / 30ml saline flush @ 5mL/s			
 SERIES 1: Dual Scout	Scout 1: LAT S60/I700 120kV 10mA 90 Scout Plane 2T Voice WW/WL 1500/500 Scout 2: AP S60/I700 120kV 10mA 0 Scout Plane 2T Voice WW/WL 500/50				
GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
	SN S20/I1910	SN S20/I1200			
 *Smart Prep* Draw circle ROI on SVC (pulmonary artery for patients w/ poor cardiac output)					
GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
	Smart Prep				
On	Active	Active			
Dynamic transition	Active	Active			
Monitor location	I400	I110			
mA	40	30			
Monitor delay	3 sec	110 sec			
Monitoring ISD	3 sec	2.5 sec			
Threshold	100 HU	100 HU			
Auto localizer	Active	Active			
Voice message	Off	NA			
Auto min delay	Off	Active			
 SERIES 2: *Pulmonary* Scan from above shoulders to adrenals					
GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
Scan Type	Helical	Helical			
Detector Config	40mm	40mm			
Rotation	0.5	0.5			
Pitch/Speed	1.375/55.00	55			
SFOV	Large Body	Large Body			
kV	120	120			
mA Range	100-550	75-550			
NI	32.72	11.5			
Prep Group	Smart Prep	Smart Prep			
DFOV (cm)	36	35			
% Dose Reduction	40	40			
ASIR	30	40			
CTDI Range (mGy)	8.25				
XR29 Dose Notification	50	50			

	RECON 2	RECON 3	RECON 4	REFORMAT 1	RECON 5
Series Descripton	Lung	CTPA	Thin Lung	Coronal Lung	Super D
Type	Axial	Axial	Axial	Axial	Axial
Start	Apicies	Apicies	Apicies	Apicies	Apicies

End	Adrenals	Adrenals	Adrenals	Adrenals	Adrenals
Image Order	Craniocaudal	Craniocaudal	Craniocaudal	Craniocaudal	Craniocaudal
Filter	Lung	Standard	Lung	Lung	Standard
Windowing	C-5000/W2000	C40/W350	C-5000/W2000	C-5000/W2000	C40/W350
Render Mode	Average	E Plus Average	E Plus Average	E Plus Average	Plus Average
Slice	2.5	1.25	0.625	0.625	1.25
Increment	2.5	1.25	0.625	0.625	0.8
FOV in mm	36	36	36	36	36

 ***Smart Prep* Place ROI at the knees to track the popliteal artery and vein**

GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
Smart Prep					
On	Active	Active			
Dynamic transition	Active	Active			
Monitor location	I1100	I110			
mA	30	30			
Monitor delay	60 sec	110 sec			
Monitoring ISD	2.5 sec	2.5 sec			
Threshold	50 HU	100 HU			
Auto localizer	Active	Active			
Voice message	Off	NA			
Auto min delay	Off	Active			

 SERIES 3: *Lower leg venogram* Scan caudocranial from below knees to iliac crest

GE	GE 64 2nd FL	GE 64	GE 64 OLY	GE CTS ER	PET CT
Scan Type	Helical	Helical			
Detector Config	40mm	40mm			
Rotation	0.5	0.5			
Pitch/Speed	0.984/39.37	39.37			
SFOV	Large Body	Large Body			
kV	120	120			
mA Range	75-500	50-450			
NI	48	22.1			
Prep Group	Smart Prep	Smart Prep			
DFOV (cm)	33	35			
% Dose Reduction	40	40			
ASIR	30	40			
CTDI Range (mGy)	21.96				
XR29 Dose Notification	50	50			

	RECON 2
Series Descripton	Venogram
Type	Axial
Start	Below Knees
End	Above Iliac Crest
Image Order	Caudocranial
Filter	Standard
Windowing	C40/W350
Render Mode	Average
Slice	2.5

Increment	2.5
FOV in mm	33

Send to PACs
Approving Radiologist / Review Date