UT Southwestern Department of Radiology

Protocol Name: Pulmonary Embolism
Epic Button: Pulmonary Embolism
Indications: Shortness of breath, elevated d-dimer, chest pain, hypoxia

Orderable Name: CT ANGIOGRAPHY CHEST PULMONARY ARTERIES WO/ W IV CONTRAST

Adult Only

CTDIvol < 60 mGy
DLP < 7500 mGycm

 # Acquisitions: 1-2

Active Protocol

Oral Contrast: None

IV Contrast: Link to Contrast Information
Rate (mL/sec): 5
Volume (mL): See Notes

IV Access:
Power injection: 18-20g or larger in large vein (AC or more central)

Notes:

	Volume (ml)
Single Energy	90
Dual Energy	75

Other Contrast: None

Airway
Respiratory pause

Other Notes
Read by Cardiothoracic division

Consult body habitus kVp selection chart.

If pt>280 lb: don't use dual energy mode on Force/Flash scanners.

Bolus tracking: Trigger at 120 HU in pulmonary artery, wait 5 sec to start scan.

Last Change: 11/15/2022 **Last Review:** 11/17/2022 **Links:** kVp Body Chart General Statements

Special Instructions	Send to TeraRecon & Syngovia (volume)		Do not repeat CT scan, recon lung from 1st acquisition		If pt has known congenital heart disease, add 60 sec delay. CONSULT RAD TO OK.
Acq # / Series Name	1	Pulmonary Arterial	N/A	Pulmonary Arterial	2	60 Sec Delayed
Phase Timing	Bolus tracking		N/A		60 sec delay	
Acquisition Protocol	Chest PE		Recon Only		Chest PE	
Coverage	Base of neck through L1		Same		Base of neck through L1	
FOV	Targeted, including rib cage, ~1cm clearance		Same		Same	
Algorithm	Soft Tissue		Lung		Soft Tissue	
Primary Axial Recon	3 mm, 1 mm		3 mm		3 mm	
Other Recons	2 mm coronal and sagittal				2 mm coronal and sagittal	
MIP Recons	7x2mm axial					
***Dual Energy Philips**	Mono-50keV 1mm axial, VNC, Iodine Map 3mm axial				Mono-50keV 1mm axial, VNC, Iodine Map 3mm axial	
***Dual Energy Siemens**	Mono-50keV 1mm axial, VNC, Iodine Map 3mm axial				Mono-50keV 1mm axial, VNC, Iodine Map 3mm axial	

*** When dual energy or spectral CT is used**