

# UT Southwestern Department of Radiology

**Protocol Name:** Pulmonary Embolism

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

Adult Only

**Epic Button:** Pulmonary Embolism

CTDIvol < 60 mGy

**Indications:** Shortness of breath, elevated d-dimer, chest pain, hypoxia

DLP < 7500 mGycm

**# Acquisitions:** 1-2

Active Protocol

<b>Oral Contrast:</b> None	<b>IV Contrast:</b> <a href="#">Link to Contrast Information</a>	<b>Other Contrast:</b> None	<b>Airway</b>
	<b>Rate (ml/sec):</b> 5		Respiratory pause
	<b>Volume (ml):</b> See Notes		
	<b>IV Access:</b>		<b>Other Notes</b>
	Power injection: 18-20g or larger in large vein (AC or more central)		Read by Cardiothoracic division
	<b>Notes:</b>		Consult body habitus kVp selection chart.
	<div> <div></div> <div>Volume (ml)</div> </div>		If pt>280 lb: don't use dual energy mode on Force/Flash scanners.
	Single Energy 90		Bolus tracking: Trigger at 120 HU in pulmonary artery, wait 5 sec to start scan.
	Dual Energy 75		

Last Change: 2/6/2025

Last Review: 2/25/2025

Links: [kVp Body Chart](#) [General Statements](#)

<b>Special Instructions</b>	Send to TeraRecon & Syngovia (volume) If no prior, Use FOV Targeted, including rib cage, ~1cm clearance.	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.
<b>Acq # / Series Name</b>	<b>1</b> Pulmonary Arterial	<b>N/A</b> Pulmonary Arterial	<b>2</b> 60 Sec Delayed
<b>Phase Timing</b>	Bolus tracking	N/A	60 sec delay
<b>Acquisition Protocol</b>	<a href="#">Chest PE</a>	<a href="#">Recon Only</a>	<a href="#">Chest PE</a>
<b>Coverage</b>	Base of neck through L1	Same	Base of neck through L1
<b>FOV</b>	Match prior PE study FOV, if available	Same	Same
<b>Algorithm</b>	Soft Tissue	Lung	Soft Tissue
<b>Axial Recons</b>	3 mm, 1 mm	3 mm	3 mm
<b>Other Planar Recons</b>	2 mm coronal and sagittal		2 mm coronal and sagittal
<b>MIP Recons</b>	7x2mm axial		
<b>†DECT Philips</b>	Mono-50keV 1mm axial, VNC, Iodine Map 3mm axial		Mono-50keV 1mm axial, VNC, Iodine Map 3mm axial
<b>†DECT Siemens</b>	Mono-50keV 1mm axial, VNC, Iodine Map 3mm axial		Mono-50keV 1mm axial, VNC, Iodine Map 3mm axial
<b>†PC-CT Siemens</b>			

† When dual energy (DE) or photon counting (PC) CT is used

