

NUCLEAR MEDICINE PROTOCOLS



Pulmonary Ventilation Study

Indications	<ul style="list-style-type: none">• Diagnosis of PE• Evaluation of ventilation
Exam Time	Procedure Imaging Time 15 minutes
Patient Preparation	None
Patient Positioning	Sitting preferably, supine is also acceptable.
Radiopharmaceutical and Dose	^{99m} Tc-diethylene triamine pentaacetic acid (DPTA) aerosol or Xenon 133 30-45 mCi
Method of Administration:	Nebulizer connected to mouthpiece. The nose should be occluded. Patient performing Tidal breathing in upright position if possible.
Conflicting exams and medications:	None
Imaging Device	Large FOV camera, if available
Acquisition Protocol	Routine Views, Anterior, Posterior, both laterals and four obliques (Perfusion will be same views) When the camera sees 1000 counts per second, discontinue nebulizer and then do images for 100-k counts per image
Comments	Should usually be performed before the ^{99m} Tc macroaggregated albumin (MAA) perfusion scan.

Reviewed: 01/29/2022