

# NUCLEAR MEDICINE PROTOCOLS

## Pulmonary Ventilation Study

<b>Indications</b>	<ul style="list-style-type: none"><li>• Diagnosis of PE</li><li>• Evaluation of ventilation</li></ul>
<b>Exam Time</b>	Procedure Imaging Time 15 minutes
<b>Patient Preparation</b>	None
<b>Patient Positioning</b>	Sitting preferably, supine is also acceptable.
<b>Radiopharmaceutical and Dose</b>	<sup>99m</sup> Tc-diethylene triamine pentaacetic acid (DPTA) aerosol or Xenon 133 30-45 mCi
<b>Method of Administration:</b>	Nebulizer connected to mouthpiece. The nose should be occluded. Patient performing Tidal breathing in upright position if possible.
<b>Conflicting exams and medications:</b>	None
<b>Imaging Device</b>	Large FOV camera, if available
<b>Acquisition Protocol</b>	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
<b>Comments</b>	Should usually be performed before the <sup>99m</sup> Tc macroaggregated albumin (MAA) perfusion scan.