

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. |