

PROTOCOL FOR: Imaging Guided Lung Biopsy: Care of the Patient Undergoing

DESIRED

- PATIENT OUTCOMES:
1. The patient will receive appropriate medication(s), safely administered during the periprocedural period.
 2. The patient demonstrates and/or reports adequate pain control throughout the periprocedural period.
 3. The patient demonstrates knowledge of the expected responses to fluoroscopic, CT-guided, or ultrasound-guided lung biopsy.
 4. The patient demonstrates knowledge of post-discharge pain management.

CLINICAL
ASSESSMENT
AND CARE:

1. Pre-procedure care per protocol, with pulse oximetry monitoring required. Reinforce teaching that this X-ray test is performed to obtain transbronchial or percutaneous biopsy of lung lesions. Percutaneous biopsies are performed under fluoroscopic or CT guidance. Subpleural lesions are accessible to ultrasound guided punctures. The aim of lung biopsy is to obtain neoplastic or infectious material. The main complications are pneumothorax and hemoptysis, which occur in 10 to 60% of percutaneous lung biopsies.
2. Intra-procedure care per protocol. Assess for signs/symptoms of pneumothorax:
 - a. sudden sharp chest pain, especially made worse by a deep breath or a cough
 - b. shortness of breath (dyspnea)
 - c. chest tightness, or other change in respiratory pattern
 - d. rapid heart rate
 - e. decrease in pulse oximetry and BP values
 - f. nasal flaringExplain to patient about skin prep, local anesthetic at biopsy needle insertion site(s), possibility of multiple biopsies, frequency of imaging, and need to remain still post-biopsy.
3. Post-procedure care per protocol. Notify Radiologist of any signs/symptoms of pneumothorax or problems with chest drainage equipment. Review same with ambulatory patients/family, emphasizing need to contact nursing unit or resident on call other indications of pneumothorax may include:
 - a. easy fatigues
 - b. bluish lips or nailbeds
 - c. undue anxiety, stress, or tension

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d. hemoptysis or vomiting of blood

APPROVAL: Nursing Standards Committee

EFFECTIVE DATE: 10/92

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