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Pulmonary Specialist



ENDOBONCHIAL ULTRASOUND BRONCHOSCOPY (EBUS)



Endobronchial ultrasound (EBUS) is a minimally invasive but highly effective procedure used to diagnose lung cancer, infections, and other diseases causing enlarged lymph nodes in the chest. Only few centers in UAE and al Zahra hospital is a pioneer in Dubai to offer EBUS.



Why is it used?

EBUS allows physicians to perform a technique known as transbronchial needle aspiration (TBNA) to obtain tissue or fluid samples from the lungs and surrounding lymph nodes without conventional surgery. The samples can be used for diagnosing and staging lung cancer, detecting infections, and identifying inflammatory diseases that affect the lungs, such as sarcoidosis or other cancers like lymphoma.

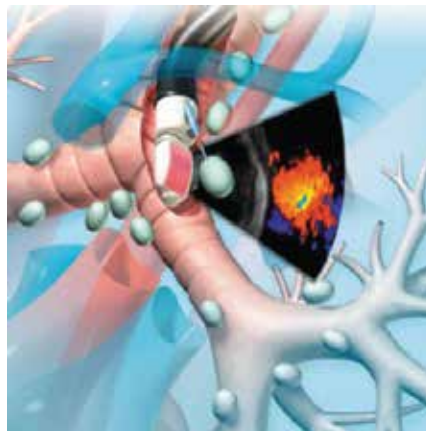
What makes EBUS different?

During the conventional diagnostic procedure, surgery known as mediastinoscopy is performed to provide access to the chest. A small incision is made in the neck just above the breastbone or next to the breastbone. Next, a thin scope, called a mediastinoscope, is inserted through the opening to provide access to the lungs and surrounding lymph nodes. Tissue or fluid is then collected via biopsy.

During an endobronchial ultrasound:

- The physician can perform needle aspiration on lymph nodes using a bronchoscope inserted through the mouth.

- A special endoscope fitted with an ultrasound processor and a fine-gauge aspiration needle is guided through the patient's trachea.
- No incisions are necessary.



Benefits of EBUS

- It provides real-time imaging of the surface of the airways, blood vessels, lungs, and lymph nodes with high level of safety.
- The improved images allow the physician to easily view difficult-to-reach areas and to access more, and smaller, lymph nodes for biopsy with the aspiration needle than through conventional mediastinoscopy.
- The accuracy and speed of the EBUS procedure lends itself to rapid onsite pathologic evaluation. Pathologists in the operating room can process and examine biopsy samples as they are obtained and can request additional samples to be taken immediately if needed.
- EBUS is performed under moderate sedation or general anesthesia.
- The patient comes fasting early morning. It takes about an hour and patients recover quickly and can usually go home the same day.
- Approved by all insurance companies.