Enlarged paratracheal lymph node. Power flow mode confirms a vessel in close vicinity to the lymph node.

Staging procedure in a patient with NSCLC.

A patient suspected of having mediastinal lymphoma was referred for EBUS-TBNA and diagnosed as having sarcoidosis.

Specifications at a Glance

**EBUS-TBNA**

**BF-UC180F**

**Optical System**
- Field of view: 80°
- Direction of view: 26° forward oblique
- Depth of field: 2-50 mm

**Insertion Tube**
- Distal end outer diameter: 6.9 mm
- Insertion tube outer diameter: 6.3 mm
- Working length: 600 mm

**Instrument Channel**
- Channel inner diameter: 2.2 mm
- Direction from which EndoTherapy accessories enter and exit the endoscopic image

**Bending Section**
- Angulation range: Up 120°, down 90°
- Total Length: 850 mm

**Currently Available Systems in 2014**

The subset of features listed here refers to the usage of the processors in conjunction with the BF-UC180F endoscope.

**Dual Dynamic Display (DDD) of Hitachi Aloka ProSound F75**

**Ultrasonic Cable**
- MUJ-1597 and MAJ-2056

**Display Mode**
- B mode, M mode, D mode, FLOW mode, POWER FLOW mode, PW mode, THE mode, B mode, FLOW mode, COLOR FLOW mode, H-FLOW mode, PW mode, THE mode, Elastography (ELST) mode

**Scanning Method**
- Electronic curved linear array

**Scanning Direction**
- Parallel to the insertion direction

**Frequency**
- 5/7.5/10/12 MHz

**Tissue Harmonic Echo (THE)**
- Broadband Harmonic (BH)
- Extended Pure Harmonic Detection (ePHD)
- Tissue Harmonic Echo (THE)

**ELST Mode**
- THE/P/THE-R (optimized penetration/resolution mode)
- Strain graph, Pressurization bar

**Focusing Point**
- Up to four focusing points are available
- Focus location adjustable, focus number adjustable

**Contact Method**
- Balloon method, Direct-contact method

**EBUS-TBNA Needles**

**ViziShot EBUS-TBNA Needles**

<table>
<thead>
<tr>
<th>Article Name</th>
<th>Min. Working Channel Ø</th>
<th>Needle Length</th>
<th>Article Number</th>
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<td>NA-2019X-402T</td>
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More information can be found in our comprehensive EndoTherapy catalog or at www.olympus-europa.com.
Universal Endoscopic Ultrasound Center EU-ME2
The EU-ME2 brings real clarity to your EBUS procedures, supporting better detection and characterization of lesions. A variety of new features such as harmonic echo and elastography helps to explore the future of endosonography. In addition, the EU-ME2 provides compatibility with linear and radial ultrasound endoscopes and radial ultrasound miniature probes.

Linear Ultrasound Bronchoscope BF-UC180F
The BF-UC180F linear ultrasonic broncholaryngoscope is specially designed for lymph node staging, including interlobar nodes, hilar nodes, and the mediastinum. The large 2.2 mm working channel provides compatibility to dedicated Olympus sampling devices and ensures less friction of devices inside the scope as well as improved suction capability. Moreover, it features an increased 60° scanning area, allowing sampling under full visual control. The impressive diagnostic value of the BF-UC180F is complimented by its compatibility to Aloka and Olympus ultrasound processors.

Universal Endoscopic Ultrasound Center EU-ME2
The EU-ME2 brings real clarity to your EBUS procedures, supporting better detection and characterization of lesions. A variety of new features such as harmonic echo and elastography helps to explore the future of endosonography. In addition, the EU-ME2 provides compatibility with linear and radial ultrasound endoscopes and radial ultrasound miniature probes.

EBUS-TBNA for Reliable Staging and High Yield
EBUS-TBNA has proven not only to be of great value for lymph node staging (N-staging) but also for the strategic use of cytology samples for molecular analysis. Olympus offers a line-up of EBUS-TBNA needles that enables specimen acquisition that can be used for cell-block preparation, immunohistochemistry, and molecular studies.

ViziShot
Olympus is unique in offering a 21G EBUS-TBNA needle in addition to the 22G needle.
- Adaptable sheath length for exact positioning within the ultrasonic view
- Echogenic tip design for excellent ultrasound visibility
- Secure needle locking mechanism for a safe and reliable procedure

ViziShot 21G
- Increased inner lumen for more sampling yield
- More stiffness for smoother needle penetration

ViziShot 22G
- More flexibility for wider accessibility to all sampling sites

ENDOBRONCHIAL ULTRASOUND – TRANSBRONCHIAL NEEDLE ASPIRATION
EBUS-TBNA is a reliable and commonly established technique that enables visualization and sampling of mediastinal, central or hilar lesions, and lymph nodes. With the ultrasonic bronchoscope BF-UC180F inserted into the trachea or the esophagus, the accessible lymph node station can be explored and the lesions outlined, while offering you the freedom to select from EndoTherapy devices like the dedicated 21G or 22G EBUS-TBNA needles.