GUIDE SHEATH SYSTEM
Created to Help Improve Bronchoscopic Diagnosis
THE CONVENIENT GUIDE SHEATH TECHNIQUE

Accessing peripheral pulmonary lesions remains a challenge with bronchoscopy. The innovative GuideSheathKit helps to improve the diagnosis of lung lesions.

The guide sheath is advanced and positioned at the centre of a solitary pulmonary nodule under X-ray or with ultrasonic guidance. Once positioned at the target site, the guide sheath acts like an extended working channel allowing safe and repeated access to the lesion for taking biopsies and cytology brushing.

Every kit contains the following instruments:
- Guide sheath
- Biopsy forceps
- Cytology brush (only in K-201/K-203)
- A set of dedicated stoppers

Optional devices:
- Guiding device
- Ultrasonic miniature probe

1. Prepare the Guide Sheath
2. Insert the Bronchoscope
3. Insert the Guide Sheath
4. Advance the Guide Sheath Under Fluoroscopy
5. Use the Guiding Device (A) to Navigate Through Bifurcations
6. Use the Ultrasonic Probe (B) for Precise Targeting
7. Position the Guide Sheath at the Target Site
8. Sampling with Biopsy Forceps
9. Changing Sampling Devices

Every kit contains the following instruments:
- Guide sheath
- Biopsy forceps
- Cytology brush (only in K-201/K-203)
- A set of dedicated stoppers

Optional devices:
- Guiding device
- Ultrasonic miniature probe

1. Attach a stopper to all devices.
2. Insert the devices into the guide sheath and adjust the stoppers so that the distal end of the device slightly extends from the guide sheath.
3. Insert the guide sheath into the bronchoscope.
4. Advance the bronchoscope as far as possible to the lesion. The radiopaque tip is clearly visible under X-ray.

Optional:
- Guiding device
- Ultrasonic miniature probe

1. Move the ultrasonic probe together with the guide sheath when using the ultrasonic probe.
2. Use the ultrasonic image to precisely position the guide sheath tip at the centre of the lesion.

Devices for accurate access and the efficient sampling of lesions

Guide Sheath 2.0 mm/2.6 mm
- SG-201C/SG-201C
  - Supports repeated approach of sampling devices
  - Radiopaque tip allows excellent visibility and positioning under fluoroscopy

Guiding Device
- CC-5DR-1
  - The bending and rotating mechanism enables the guiding device to access airways at difficult bifurcations

Ultrasonic Probe
- UM-530-175
  - A lesion can be accurately identified with ultrasound
- UM-530-20R/UM-530-20B
  - The guide sheath can be precisely positioned

Stopper 2.0 mm/2.6 mm
- FB-233D/FB-231D
  - Precisely engineered large-volume fenestrated cups safely allow high yield

Cytology Brush 2.0 mm/2.6 mm
- BC-204D-2010/BC-202D-2010
  - Metal tip guarantees perfect visibility under fluoroscopy
  - Fine micro bristles proved to collect more cells, supporting better diagnosis

Different devices can be inserted and removed from the guide sheath repeatedly, increasing the effectiveness of the procedure with increased yield. Biopsies and cytologies can repeatedly be taken.
EASY AND REPEATED ACCESS TO SOLITARY PULMONARY NODULES

Minimally Invasive
Using the GuideSheathKit for endobronchial sampling in the peripheral area of the lung is a less invasive technique than percutaneous or surgical sampling methods.

Multiple Sampling for Improved Bronchoscopic Diagnosis
By placing the distal tip of the guide sheath at the target site, physicians can repeatedly take biopsies and cytology specimens at the same site. Multiple sampling and the combination of different sampling methods help to increase yield and diagnostic success.

Reliable and Fast Access with Less Radiation
Once the guide sheath is positioned, fast and reliable access to the lesion is possible. There is no further need to spend additional time relocating the target site under fluoroscopy. By using an ultrasonic probe, the detection of the centre of the lesion becomes even more precise.

References:
Eberhardt R, et al.: Ultrasound-guided transbronchial biopsy of solitary pulmonary nodules less than 20 mm. EFU 2010; 34: 1284–1287

Devices to Diagnose Pulmonary Nodules

<table>
<thead>
<tr>
<th>GuideSheath Kit</th>
<th>Model Name</th>
<th>K-201</th>
<th>K-203</th>
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<tr>
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<td>Guide Sheath</td>
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<tr>
<td>Specification</td>
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<tr>
<td>Biopsy Forceps</td>
<td>FB-231D</td>
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<tr>
<td>Specification</td>
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<td>Oval, fenestrated cups, swinging type</td>
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<td>Cytology Brush</td>
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<td>BC-202D-2010</td>
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<tr>
<td>Specification</td>
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<tr>
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<td>Guide Sheath</td>
<td>SG-200C</td>
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Optional support devices

Guiding Device

- **Model Name**: CC-6DR-1
- **Minimum Channel Diameter**: 2.0 mm
- Specification: Rotatable, bendable tip [double-joint type], reusable
- Compatible GuideSheath Kit: K-201, 202, 203, 204

Ultrasonic Probe

- **Model Name**: UM-S20-17S, UM-S20-20R, UM-S30-20R
- **Minimum Channel Diameter**: 2.0 mm, 2.2 mm
- **Scanning Frequency**: 20 MHz, 25 MHz, 30 MHz
- **Compatible GuideSheath Kit**: K-201, 202 (2.0 mm) K-203, 204 (2.6 mm)