
**FIDUCIAL MARKER PLANNING & PLACEMENT**
- Fiducial marker locations are automatically calculated based on the target location and user defined parameter settings
- The primary target (green) and fiducials (yellow with green dots) are all displayed on the pink airways of the 3D airway tree and in 2D left and right fiducial projection views
- Customizable projection views based on linac imaging angles

**TRAINING, EDUCATION, AND RECORDS**

**Bronchoscopy Training**
- Interactive 3D visualization tools enhance understanding of airways and anatomy
- 3D airway tree image and airway labeling identifies airway anatomy

**Patient Education & Records**
- Use images to help patients understand their procedure, putting them at ease
- Real-time image capture and case notations can be exported

**PRODUCTS**

**#40009 Archimedes Satellite Planning Laptop**
- Satellite Planning Laptop (place multiple in different offices for access at any time)
- Sold only with Archimedes System

**#10009 Archimedes Access Kit**
- FleXNeedle 18g
- Sheath
- Dilation Balloon
- Inflation Syringe
- Access Key

**#40005 Archimedes System**
- Mobile Point-of Care Navigation and Tunnelling workstation

**ORDERING INFORMATION**
Contact: 877.428.1600 or sales@broncus.com
www.broncus.com
LUNG CANCER
- Lung cancer responsible for 1.6 million deaths globally in 2015
- 75% of patients have advanced disease at the time of diagnosis
- Identification of patients with lung cancer at the earliest stage is vital if outcomes for lung cancer are to be improved
- Existing bronchoscopic diagnostic yields range from 67-85% and nodules below 20mm in the range of 50%

CLINICAL VALIDATION
**Bronchoscopic Transparenchymal Nodule Access (BTPNA)**
- Biopsy yield was 100% for procedures where a tunneled pathway (tract) was created (10 out of 10)
- Overall yield for BTPNA was 83% (10 out of 12) as the tract could not be created in two patients (both having lesions in left upper lobe)
- No occurrence of pneumothorax, localized hemorrhage, or bronchial or pulmonary lacerations

**VERSATILE PLANNING & SOPHISTICATED GUIDANCE**
Best-in-class visualization and planning tools

| Import CT from PACS server, disc or flash drive | System reconstructs 3D airways and pulmonary vasculature from CT scan, calculates centerline for each airway | User IDs target on CT image and system calculates best & alternate airway & tunnel approaches based on target location | Virtual bronchoscopic navigation to region of interest with Point-of-Entry indicated for vessel free tunnel path | Target is superimposed on virtual bronchoscopic as well as live fluoroscopic view | Airway diameter, airway & tunnel distance, target diameter and distance to pleura displayed providing accurate guidance |

**VIRTUAL BRONCHOSCOPIC NAVIGATION AND TUNNELLING STATION**
Image Guidance for Bronchoscopy and Fused Fluoroscopy

- Real-time navigation within the lungs for lung biopsy and other Dx/Tx procedures
- Side-by-side navigation pairs real time and virtual images throughout procedure
- Navigation guides user to target with 3mm accuracy
- Airway path allows access to lesions without specialized, disposable instruments
- Tunnel (BTPNA) path enables direct access to lesions without bronchus sign with standard 2mm working channel tools

**ARCHIMEDES SYSTEM SPECIFICATIONS**
- High speed computer and graphics processor to enable the use of specialised software to calculation of the Point-of-Entry, while overlaying the target in the real time bronchoscopic view and live fluoroscopic image
- Two 30" HD monitors provide high-resolution bronchoscopic, virtual navigation and fused fluoroscopic navigation images
- 3D infrared camera monitors the position of the C-Arm

**INTUITIVE IMAGE GUIDANCE AND NAVIGATION**
- Target is superimposed on virtual, actual bronchoscopic and live fluoro views
- Live view is displayed simultaneously alongside the virtual animation views and path, confirming location and orientation as you maneuver through the airways
- Airway diameter measurements help size bronchoscope, stent, valve, implantable devices