

PLUG PREVENT PROTECT

NEW
COAXIAL ADAPTER
FOR IMPROVED COMPATIBILITY
AND EASIER DELIVERY



 **BIOENTRY**
TRACT SEALANT SYSTEM

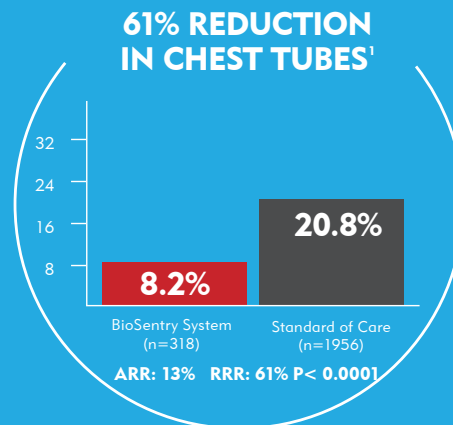
BIOSENTRY TRACT SEALANT SYSTEM IS THE FIRST BIOPSY SEALANT SYSTEM OF ITS KIND DESIGNED SPECIFICALLY TO ADDRESS THE ISSUES OF BIOPSY-RELATED PNEUMOTHORAX.

Clinical study from MD Anderson Cancer Center denotes a 61% reduction in chest tubes¹

HIGHLIGHTS:

- 37% reduction of pneumothorax and 61% reduction of chest tube placement
- Although the BioSentry System was more frequently used in high-risk patients in the unmatched group, it still demonstrated reduced risk of pneumothorax
- Use of BioSentry System presents a standardized method for mitigating pneumothorax related complications post CT-guided lung biopsy for clinicians

ARR = Absolute Risk Reduction RRR = Relative Risk Reduction



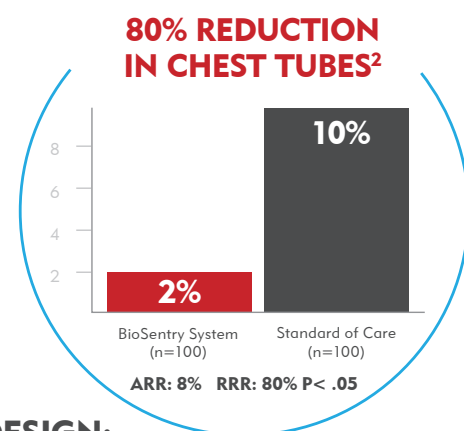
STUDY DESIGN:

Retrospective study, comparing patients receiving BioSentry device (318) vs. control arm (1956) during percutaneous lung biopsy. To adjust for potential selection bias, patients in the treated group were matched 1:1 to patients in the control group using propensity score matching.

All-comers study demonstrates 80% reduction in chest tube insertion rates when using the BioSentry System²

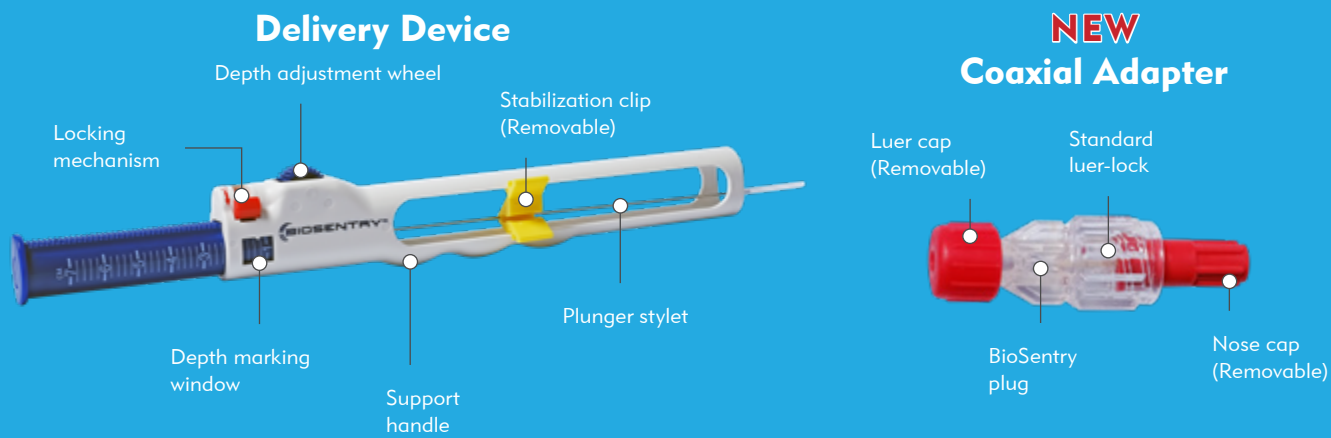
HIGHLIGHTS:

- The treatment group demonstrated a significant reduction in chest tube placements
- With the BioSentry System, patients experienced an 83% reduction in average time of hospital stay post CT-guided percutaneous transthoracic needle biopsy



STUDY DESIGN:

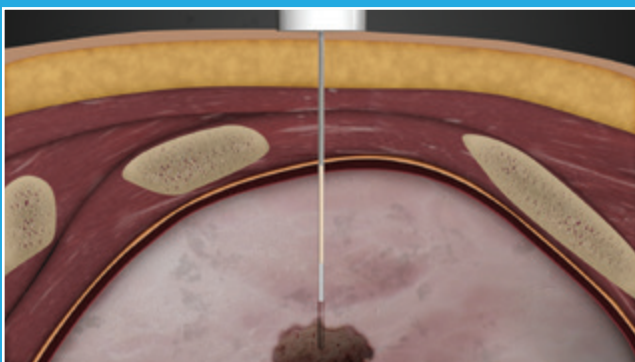
Retrospective review of 200 consecutive patients (100 consecutive biopsies were done without any intervention and the next 100 consecutive biopsies done with the BioSentry System).



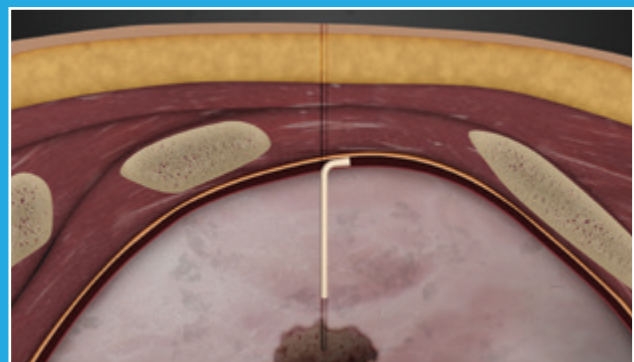
The BioSentry tract sealant system deploys a self-expanding hydrogel plug into the pleural space following a percutaneous lung biopsy. This creates an airtight seal that closes the pleural puncture and provides accuracy in marking a biopsy location for visualization during surgical resection.

BENEFITS

- » Hydrogel plug **fully resorbs**[†]
- » During this time it is **visible and marks the biopsy location** for surgery
- » The applicator **standardizes the method** how the plug is placed¹
- » Usable with **17 & 19 Gauge** coaxial introducer needles
- » **No clinically significant complications** associated with use²



Dehydrated plug is deployed with 0.5 cm extending into the pleural space



Plug swells, creating an airtight seal that closes the pleural puncture



ORDERING INFORMATION

Catalog Number	Description
H787768022019S1	BioSentry Tract Sealant System

Packaged 5 units per box

† Data on File

REFERENCES

¹ Ahrar JU, Gupta S, Ensor JE et al. Efficacy of a Self-expanding Tract Sealant Device in the Reduction of Pneumothorax and Chest Tube Placement Rates After Percutaneous Lung Biopsy: A Matched Controlled Study Using Propensity Score Analysis. Cardiovasc Intervent Radiol. 2017; Feb 40(2):270-276. doi: 10.1007/s00270-016-1489-9.

² Grage RA, Naveed MA, MD, Keogh S, Wang D. Efficacy of a Dehydrated Hydrogel Plug to Reduce Complications Associated With Computed Tomography-guided Percutaneous Transthoracic Needle Biopsy. J Thorac Imaging. 2017; Jan 32(1):57-62, doi: 10.1097/RTI.0000000000000247.

Before using, refer to Instructions for Use for indications, contraindications, warnings, precautions, and directions for use.



Understand. Innovate. Deliver.™

merit.com

Merit Medical Systems, Inc.

1600 West Merit Parkway • South Jordan, Utah 84095 • Main: +1.801.253.1600 • Customer Service: +1.801.208.4300