

# PLUG PREVENT PROTECT



 **BIOSENTRY**  
TRACT SEALANT SYSTEM

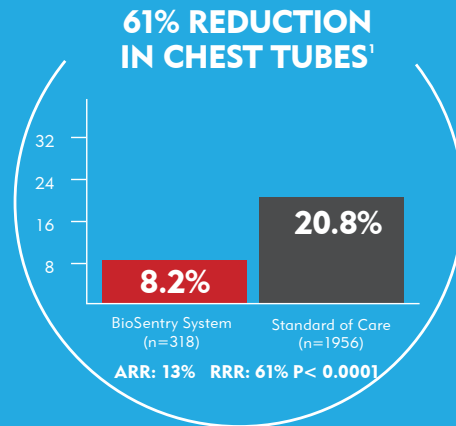
# BIOSENTRY TRACT SEALANT SYSTEM IS THE FIRST BIOPSY SEALANT SYSTEM OF ITS KIND DESIGNED SPECIFICALLY TO ADDRESS THE ISSUES OF BIOPSY-RELATED PNEUMOTHORAX.

## Clinical study from MD Anderson Cancer Center denotes a 61% reduction in chest tubes<sup>1</sup>

### 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



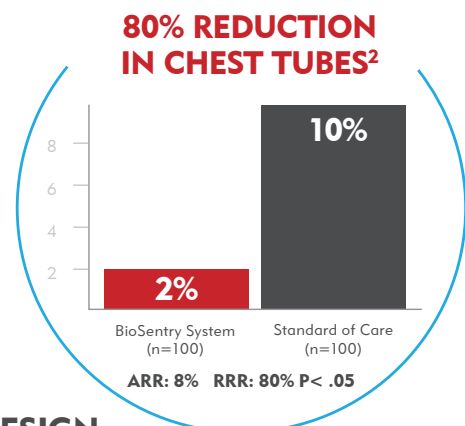
### STUDY DESIGN:

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 System<sup>2</sup>

### HIGHLIGHTS:

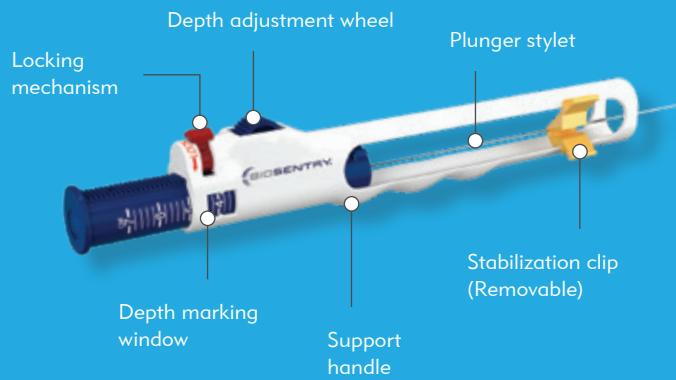
- The treatment group demonstrated a significant reduction in chest tube placements
- With the BioSentry System, patients experienced an 83% reduction in average time of hospital stay post CT-guided percutaneous transthoracic needle biopsy



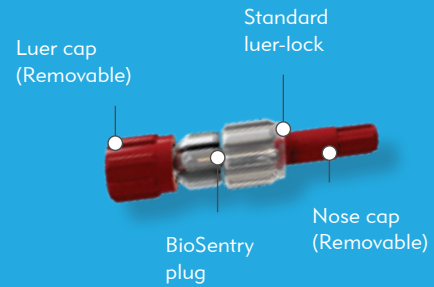
### STUDY DESIGN:

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).

## Delivery Device



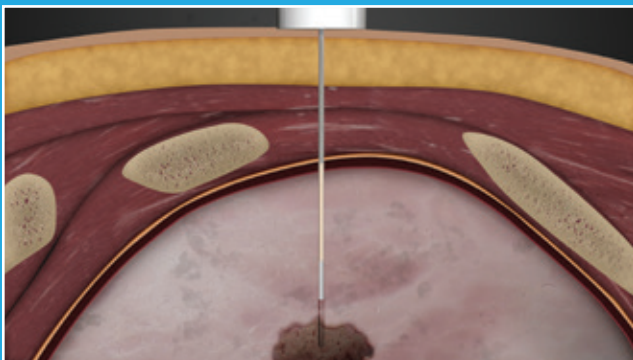
## Co-Axial Adapter



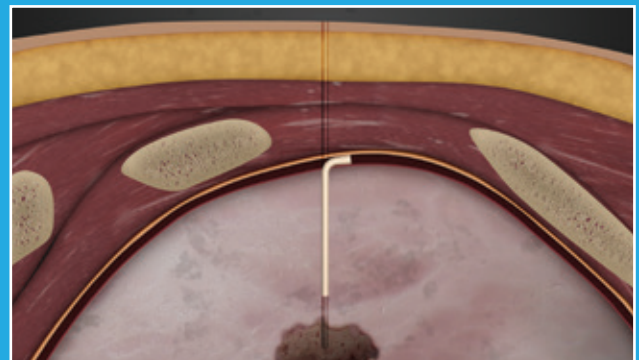
The BioSentry tract sealant system deploys a self-expanding hydrogel plug into the pleural space following a percutaneous lung biopsy. This creates an airtight seal that closes the pleural puncture and provides accuracy in marking a biopsy location for visualization during surgical resection.

# BENEFITS

- » Hydrogel plug **fully resorbs**<sup>†</sup>
- » During this time it is **visible and marks the biopsy location** for surgery
- » The applicator **standardizes the method** how the plug is placed<sup>1</sup>
- » Usable with **17 & 19 Gauge** coaxial introducer needles
- » **No clinically significant complications** associated with use<sup>2</sup>



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
<b>H787768022019S1</b>	BioSentry Tract Sealant System

Packaged 5 units per box

† Data on File

### REFERENCES

<sup>1</sup> 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.

<sup>2</sup> 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.



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