

# Which Biopsy Method Is More Appropriate to Provide the Highest Diagnostic Accuracy for Pleural Effusion?

## STUDY DESIGN

**Prospective, randomized, parallel study** (n=228) with undiagnosed **exudative pleural effusions** using 2 different biopsy methods to determine **diagnostic sensitivity, reliability, and safety** in 2 groups

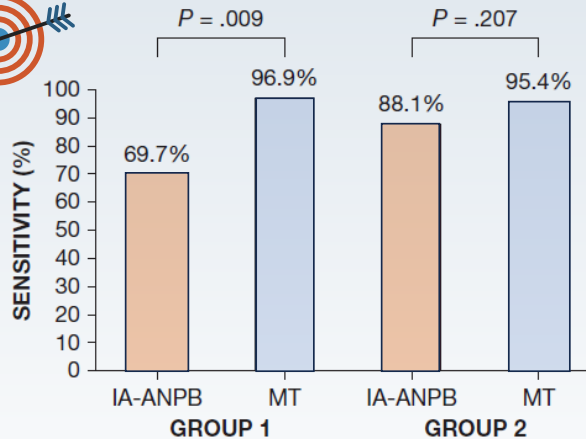
- Group 1 – Pleural effusion
- Group 2 – Pleural effusion with thickening or lesion

**Image-assisted Abrams needle biopsy (IA-ANPB)**

vs

**Medical thoracoscopy (MT)**

## RESULTS



**Rate of complications was not different**

IA-ANPB 8.5%	MT 15.8%	$P = .107$
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**False-negative rate**

30.3%	3.1%	11.9%	4.7%
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In this study, MT showed a high diagnostic success in all patients with pleural effusion. IA-ANPB showed similar diagnostic success in pleural effusion with pleural thickening or lesions. In the latter case, IA-ANPB could be preferable to MT.