In Patients With Suspected Pneumothorax, What Is the Real-Time Diagnostic Accuracy of AI-LUS to Recognize the Absence of Lung Sliding?

STUDY DESIGN

• Prospective artificial intelligence (AI)-assisted diagnostic accuracy study of AI-lung ultrasound (LUS) to recognize the absence of lung sliding

• 241 lung sliding evaluations from 62 patients

RESULTS

Study workflow outlining real-time image acquisition model evaluation

AI-LUS Diagnostic Performance

- Accuracy
- AUC
- Specificity
- Sensitivity

Performace Measures

- 0.89 (95% CI, 0.82-0.96)
- 0.80 (95% CI, 0.74-0.86)
- 0.91 (95% CI, 0.79-0.97)

This study showed that real-time AI-LUS has high sensitivity and moderate specificity to identify the absence of lung sliding. Further research to improve model performance and optimize the integration of AI-LUS into existing diagnostic pathways is warranted.