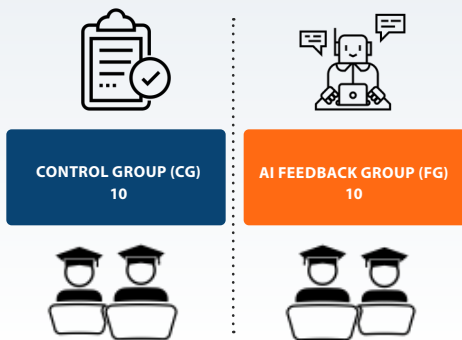


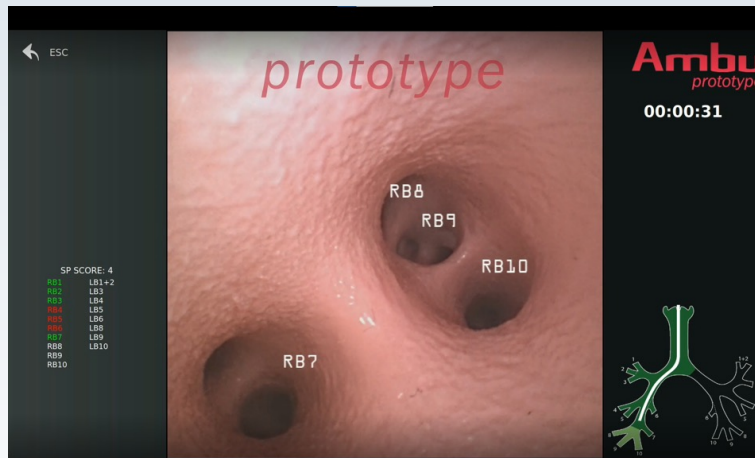
Does Feedback From an AI-Based Automatic Bronchial Segment Identification System Improve Novice Bronchoscopists' Performance?

STUDY DESIGN

- Randomized controlled trial in a standardized simulated setting
- Novices without former bronchoscopy experience performed on an ultrasonic bronchoscopy simulator



RESULTS



Onscreen labels indicate the currently visualized segments. Lung tree diagram indicates inspected areas in dark green and visualized areas in light green. Structured progression score turns green for each progression that results in a point and red if the progression to the segment did not result in a point.

MEDIAN DIFFERENCE IN FG MET STATISTICAL SIGNIFICANCE IN:

- Diagnostic completeness (3.5 segments)
- Structured progress (13.5 correct progressions)
- Procedure time (-214 seconds)

Training guided by this novel artificial intelligence (AI) makes novices perform more complete, more systematic, and faster bronchoscopies.