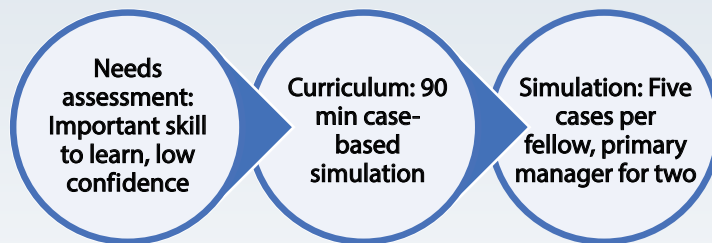


## Does Simulation for Massive Hemoptysis Management Improve Competence?

### STUDY DESIGN

- Manikin-based simulation curriculum designed using Kern's six steps for pulmonary and critical care medicine fellows
- Simulation used repetitive practice, clinical variation, range of difficulties, and directed feedback in a group practice setting
- Competence assessed using combined metric of management-related priorities and global entrustment

### RESULTS



Fellow self-assessed knowledge and confidence in hemoptysis management and endobronchial blocker placement improved significantly after simulation

### Performance and entrustment



\*Significant,  $P = .0067$

† Global Assessment Scale

1 - Should not perform  
5 - Independent

Hemoptysis simulation experience improves fellow confidence and skill for management of this high-acuity, low-occurrence presentation.