

Is the Novel Denver Critical Illness Intubation Entrustment (D-CITE) Tool Valid to Assess Adult ICU Intubation Skill?

STUDY DESIGN

- Simulation-based validation study
- Modified Delphi Process with 19 experts in intubation
- **Participants:** a total of 20 Pulmonary and Critical Care fellows and Internal Medicine residents
- **Outcomes:** reliability, construct validity, and Rasch model fitting

RESULTS



D-CITE Tool

Items:

- ☒ 10 intubation microskills
- ☒ 1 global entrustment assessment
- ☒ Intubation difficulty



☒ Reliability	High internal consistency	Cronbach's α = .97
☒ Interrater Reliability	Strong agreement	Interclass Correlation = 0.77
☒ Construct Validity	Single factor identified	1-factor model
☒ Rasch Model Fit	Good model fit	Infit Mean-Square = 0.99 Outfit Mean-Square = 0.96

The findings of this study indicate that D-CITE is a reliable and valid tool for evaluating intubation competency among Critical Care Medicine trainees in a simulated environment.