

Use of video simulation to educate emergency medicine residents on intubation protocols for patients under investigation for COVID-19

Kelly N. Roszczynialski, MD, MS; Ashley C. Rider, MD; Holly Caretta-Weyer, MD, MPHE (c); Kimberly Schertzer, MD

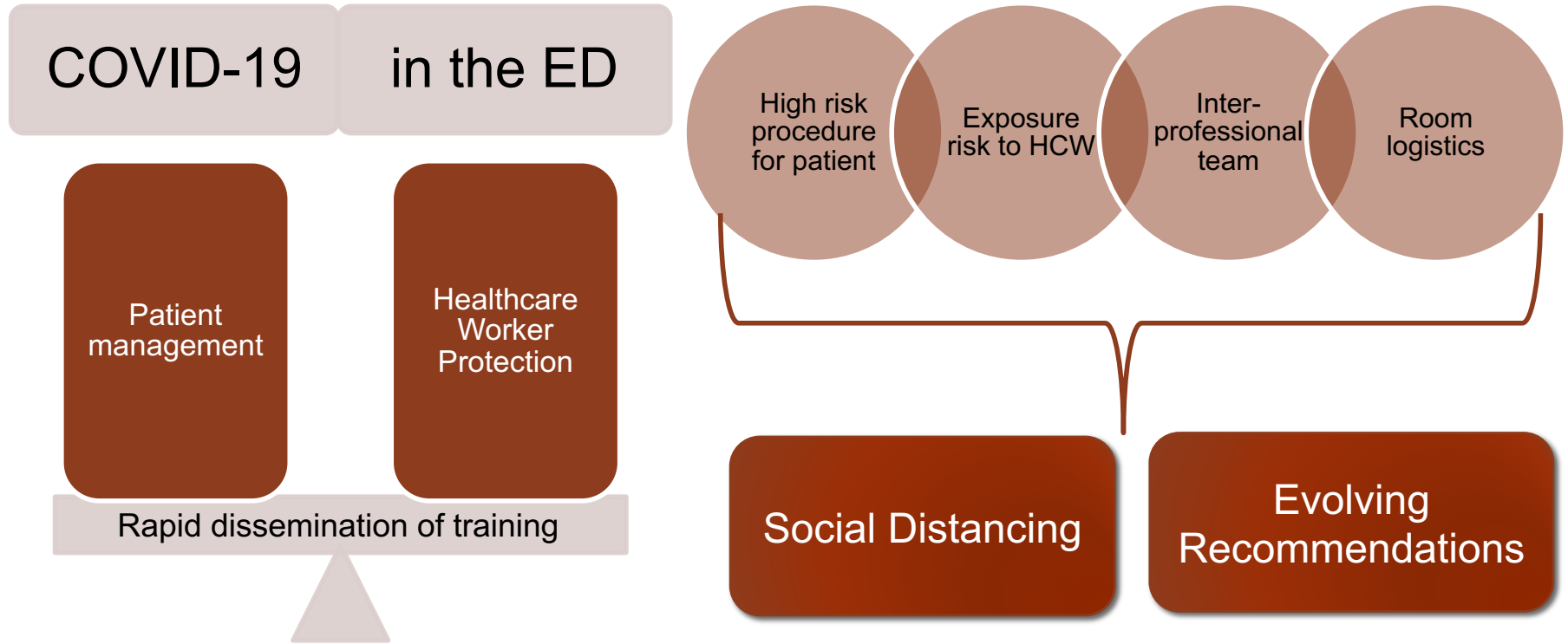
Stanford Department of Emergency Medicine

No Disclosures



Stanford
MEDICINE | Emergency
Medicine

Background



Methods

Performed literature and institution policy review

Wrote a simulation case for COVID-19 intubation

Held 12 in situ simulations Mar-April 2020

Created 10-min targeted simulation video for physicians

Enrolled all PGY-3 and PGY-4

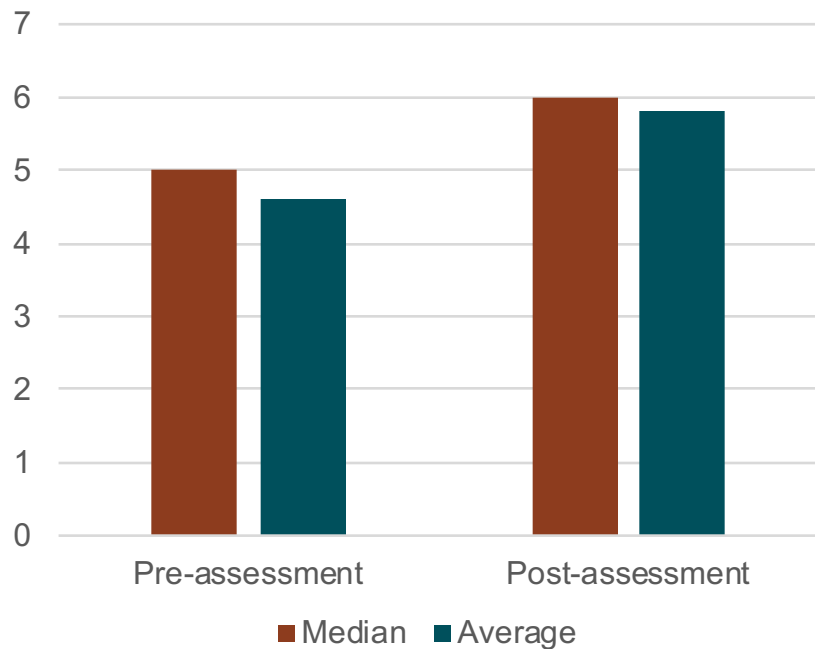
Pre-video knowledge assessment and comfort rating

Reviewed simulation video

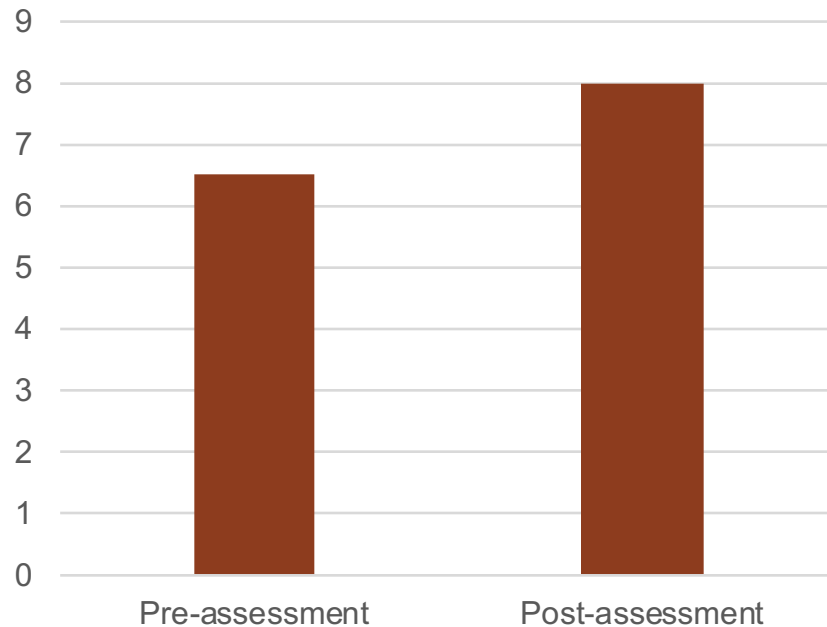
Post-video knowledge assessment and comfort rating

Results

Performance Pre and Post



Comfort Level



Conclusions

- Simulation video increased performance on knowledge assessment and comfort with procedure.
- Residents better prepared for airway management in COVID-19 patients without in-person training in a format that could be easily updated as understanding of the virus rapidly changes.

Future directions

- Broaden video training to all residents and attendings
- Performance assessment: simulated vs clinical setting