



## SESSION 306

# Using Realistic Low-Fidelity 3D-Printed Models to Learn and Practice High-Acuity Low-Occurrence (HALO) Procedures

The session will begin with a short (5-10 minutes) didactic introduction on the utility of our 3D-printed procedural models and specifics on the procedures to be covered. Participants will then be divided into small groups and have the opportunity for hands-on practice (35 minutes) of procedures including chest tube placement, surgical airway, and needle decompression. Several instructors will be present to offer feedback and assistance during this part of the workshop. Printed supplementary materials relating to the procedures will be available at each station as well. Models will include multi-functional 3D-printed thorax models and other stand-alone models designed for chest tube and surgical airway placement. Participants will have the opportunity to practice on more than one model during the session. At the conclusion of the workshop there will be time (5 minutes) allocated for questions and collection of feedback from participants. Prior knowledge/experience is helpful but not mandatory. Instructors may be able to forward open-access resource information to participants beforehand.

1. Recognize the role and value of 3D-printed models in low-fidelity simulation-based medical education training sessions for rural / remote practitioners.
2. Outline the key information for each procedure including indications, contraindications, complications, and essential equipment for each procedure covered during the session.
3. Demonstrate essential motor skills in completing select procedures covered in the session.