A YouTube-Type Approach to Learning Cricothyrotomy

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RATIONALE

Teaching procedural skills is an important part of medical education. Use of simulation centers is an excellent modality for teaching these skills to trainees. This project aims to evaluate the ability of trainees to develop knowledge and skills independently utilizing a video and a simple task trainer.

Goals of this innovation:

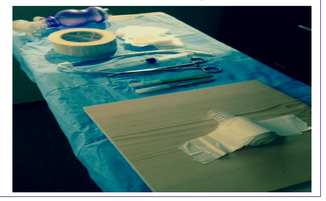
- Demonstrate ability for trainees to utilize video and a task trainer to effectively learn a skill
- Assess it's realism and potential for use in training and assessment

Hypothesis

Through the use of a self-study video reference tool and a task-trainer, a trainee can independently develop the knowledge and skill required to successfully complete an invasive procedure on a task trainer then on a high fidelity simulator.

Methods

- IRB approval was obtained
- A previously constructed reproducible, inanimate model was selected as a teaching model based on previously tested anatomic and technical aspects for this procedure
- Instructional videos, procedural check list and a Survey was created
- Volunteers will be randomly assigned to one of three groups
- Group 1: Independent Study Video-Guided Instructional Approach
- Group 2: A YouTube-Type Instructional Approach Using the CAM
- Group 3: Traditional Instructor-Guided, Hands-on Skills Instruction
- After the given teaching method individual trainees will be taken and tested on the CAM followed by testing on the "gold standard" (Laerdal SimMan)
- Groups will be compared on their ability to successfully complete a surgical Cricothyrotomy



DISCUSSION

- At this point we have not had volunteers go through the different training groups
- We do not have data to present at this time.
- We plan to start collecting data in the next weeks

CONCLUSION

We hope to demonstrate the ability of trainers to utilize a simple task trainer and video type approach to learning procedural skills.

If this proves successful, trainees will be able to do more self directed teaching and time spent in the simulation center can be used to become more proficient at these skills.

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