



Does Timing of Airway Training Impact 4th Year Medical Students Performance During High Fidelity Simulation Airway Management and Intubation

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Introduction

- Students receive airway training in the form of a hands on lab during 4th year Emergency Medicine clerkship
- Students then attempt to manage airways during a High Fidelity Simulation at the Kado Family Clinical Skills Center
- Some groups received training prior to the simulation while some group received training afterwards
- Our aim is to identify if the timing of the airway lab affects the student's performance during the simulation

Methods

- Compared performance during simulation for the two groups using video recordings
- Used a standardized checklist to evaluate performance – OSATS¹
- OSATS is a validated assessment tool for grading overall technical proficiency for open surgery
- Four domains were scored on a Likert Scale between 1-5 with a total score range of 4-20
- Also measured:
 - Time to initiate bag and mask ventilation
 - Time to intubation
 - Length of time to perform intubation

Conclusion

- Airway management is a key component of emergency care
- Students receive airway training throughout their career including BLS, ACLS, and during the 4th year Emergency Medicine clerkship
- Our assertion is that students that do receive the airway didactic and training prior to simulation will perform the procedure more proficiently and more quickly

High Fidelity Simulation Center



Results

- We are currently collecting data
- Data will be added to a spreadsheet and analyses of the intervention group versus the non-intervention group will be performed

References

1. Martin JA, Regehr G, Reznick R, MacRae H, Murnaghan J, Hutchison C, Brown M. Objective structured assessment of technical skill (OSATS) for surgical residents. Br J Surg. 1997 Feb;84(2):273-8. doi: 10.1046/j.1365-2168.1997.02502.x. PMID: 9052454.