

1,071 132

Views

CrossRef citations to date

0

Altmetric

FOCUS ON AIRWAY MANAGEMENT


Defining the Learning Curve for Paramedic Student Endotracheal Intubation

Henry E. Wang , MD, MPH, Samuel R. Reitz , MEd, RN, David Hostler , Phd, NREMT-P & Donald M. Yealy , MD

Pages 156-162 | Received 03 Dec 2005, Accepted 15 Dec 2005, Published online: 02 Jul 2009

🗨️ Cite this article 🔗 <https://doi.org/10.1080/10903120590924645>

Sample our
Medicine, Dentistry, Nursing
& Allied Health Journals



>> [Sign in here](#) to start your access
to the latest two volumes for 14 days

📄 Full Article

📊 Figures & data

📖 References

🗨️ Citations

📊 Metrics

📄 Reprint

We Care About Your Privacy

We and our 854 partners store and access personal data, like browsing data or unique identifiers, on your device. Selecting "I Accept" enables tracking technologies to support the purposes shown under "we and our partners process data to provide," whereas selecting "Reject All" or withdrawing your consent will disable them. If trackers are disabled, some content and ads you see may not be as relevant to you. You can resurface this menu to change your choices or withdraw consent at any time by clicking the ["privacy preferences"] link on the bottom of the webpage [or the floating icon on the bottom-left of the webpage, if applicable]. Your choices will have effect within our Website. For more details, refer to our Privacy Policy. [Here](#)

We and our partners process data to provide:

I Accept

Reject All

Show Purpose



adjusted for clinical setting, elapsed number of days from the first ETI encounter, and the interaction (cumulative ETIs \times elapsed days). Predicted probability plots were constructed depicting the “learning curve” overall and for each clinical setting. Results. Between one and 74 ETIs (median 7; IQR 4–12) were performed by each of 802 PSs. Of 7,635 ETIs, 6,464 (87.4%) were successful. Stratified by clinical setting, 6,311 (82.7%) ETIs were performed in the OR, 271 (3.6%) in the ED, 64 (0.8%) in the ICU, 86 (1.1%) in other in-hospital settings, and 903 (11.8%) in the prehospital setting. For the 7,398 ETIs included in the multivariate analysis, cumulative number of ETI was associated with increased adjusted odds of ETI success (odds ratio 1.067 per ETI; 95% CI: 1.044–1.091). ETI learning curves were steepest for the ICU and prehospital settings but lower than for other clinical settings. Conclusions. Paramedic student ETI success improves with accumulated live experience but appears to vary across different clinical settings. Strategies for PS airway education must consider the volume of live ETIs as well as the clinical settings used for ETI training. Key words: intubation; intratracheal; emergency medical services; learning; allied health personnel.

Keywords: [intubation](#) [intratracheal](#) [emergency medical services](#) [learning](#) [allied health](#)

Relat

Impa

intub

study

Sourc

Traini

for

S

PREH

Sourc

Linkin



novice

ikin

cedures

Related research

People also read

Recommended articles

Cited by
132

[Paramedic Training for Proficient Prehospital Endotracheal Intubation >](#)

Keir J. Warner et al.

Prehospital Emergency Care

Published online: 30 Nov 2009

[Assessment of Paramedic Performance on Difficult Airway Simulation >](#)

Ashish R. Panchal et al.

Prehospital Emergency Care

Published online: 21 Nov 2016

[Prehospital Airway Management Training and Education: An NAEMSP Position Statement and Resource Document >](#)

Maia Dorsett et al.

Prehospital Emergency Care

Published online: 10 Jan 2022



[View more](#)



Information for

- Authors
- R&D professionals
- Editors
- Librarians
- Societies

Opportunities

- Reprints and e-prints
- Advertising solutions
- Accelerated publication
- Corporate access solutions

Keep up to date

Register to receive personalised research and resources by email

 Sign me up

- 
- 
- 
- 
- 

Open access

- Overview
- Open journals
- Open Select
- Dove Medical Press
- F1000Research

Help and information

- Help and contact
- Newsroom
- All journals
- Books

Copyright

Accessib

Registered
5 Howick Pl

or & Francis Group
orma business

