

## RESEARCH PUBLICATIONS / ACTIVITY

### Publications

#### Peer Reviewed Articles:

Mayrose J, **Myers JW**. Endotracheal intubation: application of virtual reality to emergency medical education. *Journal of the Society for Simulation in Healthcare* (Submitted December 2006)

**Myers JW**, Gerber S. Considerations for the use of virtual environments in distance education. *Distance Education* (Submitted July 2006).

#### Review Articles:

Bledsoe B, Braude D, Dailey MW, **Myers JW**, Richards M, Wesley K. Simplifying prehospital analgesia. *Journal of the Emergency Medical Services* 2005;30(7):56-63.

Bledsoe BE, **Myers JW**. Pain & comfort. *Journal of the Emergency Medical Services* 28(6):50-67

Bledsoe BE, **Myers JW**. Future trends in prehospital pain management. *Journal of the Emergency Medical Services* 28(6):68-71

**Myers JW**. Myths of prehospital analgesia. *Journal of the Emergency Medical Services* 28(6):72-73

#### Books & Multi-Media:

**Myers JW** (Senior Editor & Author). Techniques in basic airway management instructional DVD. Thomson Learning, Albany, NY (expected 2007)

**Myers JW** (Senior Editor & Author). Techniques in advanced airway management instructional DVD. Thomson Learning, Albany, NY (expected 2007)

**Myers JW**, Neighbors M, Tannehill-Jones R. Principles of Pathophysiology and Emergency Medical Care. Thomson Learning, Albany, NY 2002

**Myers JW**: Automated defibrillation for lay and professional rescuers. Thomson Learning, Albany, NY 1999.

### Invited Presentations

#### Lectures:

**Myers JW**. Faculty discussant, clinicopathological case competition semi-finals. Society for Academic Emergency Medicine, May 21, 2005.

**Myers JW**. Educational basis for presentations 101. Emergency Medicine Residency Grand Rounds, SUNY-Buffalo, May 4, 2005

**Myers JW**. Introduction to Trauma Ultrasound. Four corners trauma and critical care conference, Farmington, NM February 27, 2004.

**Myers JW**. Permissive hypotension: the changing tide in trauma fluid management. Four corners trauma and critical care conference, Farmington, NM February 28, 2004.

**Myers JW**. Analgesia myths. Four corners trauma and critical care conference, Farmington, NM February 28, 2004.

#### Posters:

Williams B, **Myers JW**. Medications utilized for prehospital analgesia. National Association of EMS Physicians, Tucson, AZ, January 19 –

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21, 2006

- Myers JW**, Williams B. Standing order prehospital analgesic administration: Does practice setting make a difference? National Association of EMS Physicians, Tucson, AZ, January 19 – 21, 2006
- Myers JW**, Mayrose J, Ellis DG, Anand A, Kesavades K. Virtual reality simulation model for emergency airway management training. Innovations in Emergency Medical Education Exhibit IEME #14, Annual Meeting of the Society for Academic Emergency Medicine, New York City, NY, May 24 & 25, 2005.
- Myers JW**, Ellis DE, Wander S, Mayrose J, Billiter A. Airway management education of EMS providers utilizing interactive digital versatile disk (iDVD) format. Poster IEME-32, Annual Meeting of the Society for Academic Emergency Medicine, St. Louis, MO, May 21&22, 2002
- Levy M, Cross NA, **Myers JW**. Evaluation of total knee arthroplasty from cadaveric specimens. Poster, The First Joint Meeting of the Biomedical Engineering Society and The Engineering in Medicine and Biology Society, Atlanta, GA, October 13-16, 1999
- Myers JW**, Cross NA, O'Brien C. Cervical spine movement during orotracheal intubation in fresh frozen tissue. Poster, AOA Convention, Student Osteopathic Medical Association Research Day, San Antonio, TX, October 19, 1997.

## Research Activities:

- Time to acquisition and rate of acquisition of prehospital 12-lead EKG. Prospective chart review before and after a brief educational intervention designed to reinforce early 12-lead acquisition (planning)
- Rate of analgesia administration after a protocol change and brief educational intervention. Prospective chart review before and after protocol change allowing standing order analgesia administration by EMS, then after a brief educational intervention on assessing pain. (planning)
- Change in steroid use by EMS for patients complaining of dyspnea and thought to present with reactive airway diseases. Prospective chart review before and after protocol change allowing paramedics to administer steroids on standing order. (planning)
- Intubation success rates and factors associated with missed prehospital intubations. Prospective chart review of patients undergoing airway management. (planning)
- Affect of an educational intervention on difficult airway management on intubation success rates for paramedics. Prospective chart review of patients undergoing airway management before and after an educational intervention that focuses on management of the difficult airway. (planning)
- EMS provider and physician attitudes towards prehospital analgesia. Survey of EMS providers, EMS medical directors, and physicians who provide on-line medical control for EMS providers to determine barriers to prehospital analgesia. (manuscripts in processes)
- Prehospital administration of steroids. Retrospective chart review comparing admission rates, ED length of stay, and hospital length of

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stay for patients who received IV steroids by EMS prior to ED arrival.  
(completed)

Cervical spine movement during orotracheal intubation in fresh frozen tissue. *Principle investigator.* Recorded cervical spine movement fluoroscopically; measured vertebral displacement. (completed)

Evaluation of total knee arthroplasty from cadaveric specimens. *Photographer.* Photographed lower extremity implant alignment features to document methodology and measurements. (completed)

## Grant Support:

Ellis DG (Co-PI); **Myers, JW**, Zak C, Wander S. Interactive DVD for Emergency Medical Services Airway Management. Calspan (General Dynamics) University at Buffalo (SUNY) Research Center (CUBRC), Center for Traffic Injury Research. September 2002. \$50,000.

Ellis DG (Co-PI); **Myers, JW**, Zak C, Wander S. Interactive DVD for Emergency Medical Services Airway Management. The James H. Cummings Foundation. May 2001. \$11,000.

Ellis DG (Co-PI); **Myers, JW**, Zak C, Wander S. Interactive DVD for Emergency Medical Services Airway Management. The Margaret L. Wendt Foundation, May 2000. \$20,000.