

Appendix V: List of Publications

During the period under the funding from the ONR grant, the PI and his colleagues have published a number of papers, abstracts, and book chapters. This appendix lists the publications. For other achievements with the funding, access the homepage of the Anesthesiology Research Laboratories on World Wide Web:

<http://www.anesthlab.ab.umd.edu>.

1992

Gerold KB, Dauphinee K, Mackenzie CF, and LOTAS. Hypotension in acutely traumatized patients. In Decision-Making in Anesthesiology. 2nd Edition, Eds Bready LL, Smith RB, BC Decker Co, Toronto pp 342-343; 1992.

1993

Craig GR, Forrest FC, Mackenzie CF, Parr MJ, Boehm C, Gorman G and LOTAS. Performance of trauma anesthesiologists assessed by a synthetic work environment. J. Clin Monit 9:228-229; 1993.

Mackenzie CF. Simulation of Trauma Anesthesia (includes notation of LOTAS group). In Grande, CM Ed. Textbook of Trauma Anesthesia and Critical Care. Chap 98 pp 1180-1191; 1993. Mosby Year Book, Inc. St. Louis.

Mackenzie CF, Craig GR, Parr MJ and LOTAS. Video analysis of two emergency tracheal intubations identifies errors in decision-making. J. Clin Monit 9:227-228; 1993.

Mackenzie CF, Horst RL, Mahaffey DL and LOTAS Group. Decision-making during trauma patient resuscitation and anesthesia. Proc. Human Factor and Ergonomics. Soc. 37th Ann Meeting, pp 372-376; 1993.

1994

Hunter A, Mackenzie CF, Jeffries N, Wesolowski J, Bernhard W. and LOTAS. Video-analysis of tasks performed during emergency, semi-emergency and elective intubation of trauma patients. Anesthesiology 81:A626; 1994.

Jeffries NJ Hunter A, Bernhard W, Mackenzie CF, Horst R. and LOTAS. Incidence of procedural errors and untoward occurrences associated with tracheal intubation assessed from video tapes and self-reports. Anesthesiology 81:A1211; 1994.

Mackenzie CF, Horst RL and LOTAS. Team communications reveal the root causes of performance problems observed in airway management of trauma patients. Proc. of 12th Triennial Congress of the International Ergonomics Ass. Vol 5, pp 65-67; 1994.

Mackenzie CF, Craig GR, Parr MJ, Horst R. and LOTAS. Video analysis of two emergency tracheal intubations identifies flawed decision-making. Anesthesiology 81:763-771; 1994.

Mackenzie CF and LOTAS. Simulation of trauma management: The LOTAS experience.

Eur. J. Emergencies 4:184-92; 1994.

1995

Harper B, Mackenzie CF, Norman KL. Quantitative measures in the ergonomic examination of the trauma resuscitation units anesthesia work space. Proc Human Factors and Ergonomic Soc 39th Annual Meeting, San Diego, Vol 2 pp 723-727;1995.

Jaberi M, Bernhard W, Xiao Y, Mackenzie CF, The LOTAS Group. Can we use videotaping to analyze experience in tracheal intubation. Anesthesiology 83:A1013;1995.

Mackenzie CF, Hunter A, Xiao Y, Bernhard W, The LOTAS Group. Task priorities and their omission before emergency and elective intubation. Anesthesiology 83:A216;1995.

Mackenzie CF, Harper BP, Norman KL, Jaberi M and LOTAS. Ergonomic examination of the anesthesia workstation by video analysis. Int. J. Clin Monit and Comput 12:181-182;1995.

Mackenzie CF, Hu PF-M, Horst RL and LOTAS. An audio-video acquisition system for automated data acquisition in the clinical environment. J Clin Monit. 11:335-41; 1995.

Mackenzie CF and LOTAS. Real videos for training. Care Crit Ill 11:227-229; 1995.

Xiao Y, Mackenzie CF, Bernhard W, The LOTAS Group. Identifying stressors during airway management through regression analysis. Anesthesiology 83:A1119;1995.

Xiao Y, Mackenzie CF, The LOTAS Group. Does stress induce more errors in airway management? Anesthesiology 83:A1118; 1995.

Xiao Y, Mackenzie CF and The LOTAS Group. Decision making the dynamic environments. Fixation errors and their causes. Proc Human Factors and Ergonomic Soc 39th Annual Meeting San Diego Vol 1 pp 469-473; 1995.

Xiao Y, Milgran P, Doyle DJ. Medical Case Rounds: A mechanism for training and studying real-life decision-making. Proc. Human Factors and Ergonomic Soc 39th Annual Meeting Vol 2 pp 1330-1333; 1995.

1996

Harper BD, Jaberi M, Mackenzie CF, and LOTAS. Increasing efficiency in the trauma resuscitation anesthesia workspace. Anesthesiology, 85(3A); 1996.

Jaberi M, Xiao Y, Mackenzie CF, and LOTAS. Incident monitoring by videotaping of acute trauma patient management. Anesthesiology, 85(3A):A1036; 1996.

Mackenzie CF, Martin P, Xiao Y and LOTAS. Video Analysis of Prolonged Uncorrected Esophageal Intubation. Anesthesiology, 84(6):1394-1503; 1996

Mackenzie CF, Jefferies NJ, Hunter A, Bernhard W, Xiao Y, Horst R, and the LOTAS Group. Comparison of self-reporting of deficiencies in airway management with video-analysis of actual performance. Human Factors, 38:623-635, December, 1996.

Mackenzie CF, Nolan J, Kahn R, Delaney P, Grande C, and the LOTAS Group. Trauma anesthesia practices, training, and facilities. Anesthesiology, 85(3A):A252; 1996.

Mackenzie CF, Harper B, and Xiao Y. Simulator limitations and their effects on decision-making. Proc. Human Factors and Ergonomics 40th Annual Meeting pp.747-751; 1996.

Mackenzie CF, Dutton R, Jaberi M, Harper B, Xiao Y, and LOTAS. Simulator limitations affect evaluation of performance. Anesthesiology, 85(3A):A268; 1996

Mackenzie CF, Nolan J, Kahn R, Delaney P, Grande C, and the LOTAS Group. Trauma anesthesia practices, training, and facilities. *Anesthesiology*, 85(3A):A252; 1996

Xiao Y, Mackenzie CF and The LOTAS Group. Remote diagnosis in dynamic task environments. *Proc Human Factors Soc 40th Ann Meeting Philadelphia Sept*, 1996.

Xiao Y, Hunter WA, Mackenzie CF, Jefferies NJ, Horst R, and the LOTAS Group. Task complexity in emergency medical care and its implications for team coordination. *Human Factors*, 38:636-645; 1996.

Xiao Y, Mackenzie CF, Jaber M, Harper B, and LOTAS. Alarms: Silenced, ignored, missed. *Anesthesiology*, 85(3A):A422; 1996

Xiao Y, Mackenzie CF, Bernhard W, Hebel JR, and LOTAS. Dynamics of stress during elective and emergency airway management. *Anesthesiology*, 85(3A):A957; 1996.

1997

Dutton RP, Xiao Y, Bernhard W, Boehm C, Gabbot D, Hunter A, Jaber M, Wesolowski J, Mackenzie CF and LOTAS. Measured versus predicted stress during elective and emergency airway management. *Anesthesiology*, 87(3A):A444; 1997

Xiao Y, Mackenzie CF, Ovelgone D and LOTAS. Simulator realism impacts diagnostic abilities on auscultation. *Anesthesiology*, 87(3A):A939; 1997.

Xiao Y, and Mackenzie CF. Uncertainty in trauma patient resuscitation. *Proc. Human Factors and Ergonomics 41th Annual Meeting*, 168-171; 1997

Xiao Y, Milgram P, and Doyle DJ . Capturing and modelling planning expertise in anesthesiology: Results of a field study. In C. Zsombok & G. Klein (Eds.): *Naturalistic Decision Making*, Mahwah, NJ:LEA, pp. 197-205; 1997

Xiao Y, Milgram P, Doyle DJ. Planning behavior and its functionalities in the interaction with complex systems. *IEEE Trans on Systems, Man and Cybernetics*. 27(3):313-324; 1997.

1998

Mackenzie CF, Xiao Y, Ovelgone D, and the LOTAS Group. Utilization of personnel during trauma patient resuscitation. *J. Clin. Monit. In Press*.

Mackenzie CF, Xiao Y, Jaber M, Ahmed S, Spencer R, Ovelgone D, and the LOTAS Group. Strengths and weaknesses of airway teleconsultation. *J. Clin. Monit. In Press*.

Xiao Y, Mackenzie CF, and the LOTAS Group. Do surgeons, nurses, and anesthesiologists perceive the same medical care differently? *J. Clin. Monit. In Press*.

Xiao Y, Mackenzie CF, Ovelgone D, and the LOTAS Group. Simulator realism impacts diagnostic abilities on auscultation. *J. Clin. Monit. In Press*.