

Research Committee Update

The following research abstracts were accepted for oral and poster presentations at the NAEMSP™ 2009 Annual Meeting, Specialty Workshops, Scientific Assembly and Trade Show, January 22-24, 2009 at the Hyatt Regency in Jacksonville, Florida

ORAL PRESENTATIONS

1. BYSTANDER CPR AND SHOCKABLE RHYTHMS OCCUR LESS OFTEN DURING OUT-OF-HOSPITAL CARDIAC ARREST IN SOUTHERN ONTARIO NEIGHBORHOODS WITH LOWER SOCIOECONOMIC STATUS **Joesph Choi, Laurie J. Morrison, Steven C. Brooks**, *University of Toronto*

2. PARAMEDIC ENDOTRACHEAL INTUBATION EXPERIENCE IMPROVES PATIENT SURVIVAL **Henry E. Wang, Goundappa K. Balasubramani, Judith R. Lave, Donald M. Yealy, Lawrence J. Cook**, *University of Alabama at Birmingham*

3. EVOLUTION OF OFF-LOAD DELAYS OVER A SIX YEAR PERIOD IN A PROVINCIAL EMERGENCY HEALTH SERVICES SYSTEM **Saleema A. Karim, Alix Carter, Andrew H. Travers, John Ferguson, Jeff Fraser, John Bessonette**, *Emergency Health Services*

4. BARRIERS TO GUIDELINE IMPLEMENTATION: A QUALITATIVE SURVEY OF EMERGENCY MEDICAL SERVICES **Blair L. Bigham, Tom Aufderheide, Stuart Donn, John Stouffer, Judy Powell, Brian Suffoletto, Daniel Davis, Sarah Nafziger, Ahamed Idris, Mike Helbock, Laurie Morrison**, *Sunnybrook Health Sciences Centre at University of Toronto*

5. THE EFFECT OF EMERGENCY MEDICAL SERVICE PERSONNEL STAFFING PATTERNS ON PATIENT SURVIVAL FROM OUT-OF-HOSPITAL CARDIAC ARREST. **Nicholas Eschmann, Ronald G. Pirrallo, Tom P. Aufderheide, E. Brooke Lerner**, *Kenosha Fire Department*

6. EFFECT OF URBAN SPRAWL ON EMERGENCY MEDICAL SERVICE RESPONSE TIMES IN THE UNITED STATES. **Matthew J. Trowbridge, Matthew Gurka, Lupita MaGuadalupe Leon-Verdin, Robert O'Connor**, *Department of Emergency Medicine, University of Virginia*

7. PARAMEDIC DETERMINATIONS OF MEDICAL NECESSITY: A META-ANALYSIS **Lawrence H. Brown, Michael W. Hubble, David C. Cone, Michael G. Millin, Brian Schwartz, Michael E. Richards, P. Daniel Patterson, Brad Greenberg**, *UNM Department of Emergency Medicine*

8. EFFECT OF OVERCROWDING FACTORS ON AMBULANCE DIVERSION IN AN URBAN EMERGENCY DEPARTMENT **Jin Seong Cho, Sang Do Shin, Seung Chul Lee, Kyoung Jun Song, Ki Ok Ahn, Ju Ok Park, Yu Jin Kim, Gil Joon Suh, Jeong Hun Lee**, *Dongguk University College of Medicine*

9. HOW MUCH FORCE IS REQUIRED TO DISLODGE AN ALTERNATE AIRWAY? **Jestin Carlson, James Mayrose, Henry Wang**, *University of Pittsburgh*

10. THE IMPACT OF PREHOSPITAL ECG ELECTRONIC TRANSMISSION ON “DOOR-TO-BALLOON” TIME **Mary Colleen Bhalla, Francis Mencl, Sheila Steer, Jonathan Zalewski**, *SUMMA Emergency Associates Inc*

11. HUMAN CARDIORESPIRATORY AND ACID/BASE EFFECT OF A CIVILIAN CONDUCTED ELECTRICAL WEAPON **Jeffrey D. Ho, Donald M. Dawes, James R. Miner**, *Hennepin County EMS*

12. EMERGENCY MEDICAL SERVICE PROVIDERS’ ATTITUDES AND EXPERIENCES REGARDING ENROLLING PATIENTS IN CLINICAL RESEARCH TRIALS USING THE EXCEPTION FROM INFORMED CONSENT
Terri A. Schmidt, Maria Nelson, Mohamud Daya, Nicole M. DeIorio, Denise Griffiths, Pontine Rosteck, *Clackamas County EMS*

13. EFFECTS OF EXTERNAL RESCUE SHOCKS ON TRANSTHORACIC IMPEDANCE DURING OUT-OF-HOSPITAL CARDIAC ARREST
David D. Salcido, Allyson C. LaCovey, James J. Menegazzi, Joseph P. Condle, Clifton W. Callaway, *University of Pittsburgh*

14. WHAT IS THE ROLE OF CHEST COMPRESSION DEPTH DURING OUT-OF-HOSPITAL CPR? **Ian G. Stiell, Siobhan Everson-Stewart, James Christenson, Sheldon Cheskes, Judy Powell, Blair Bigham, Laurie Morrison, Jonathan Larsen, Graham Nichol, Erik Hess, Christian Vaillancourt, Daniel P. Davis, Clifton W. Callaway, Resuscitations Outcomes Consortium (ROC) Investigators**, *University of Ottawa*

15. RELATIONSHIP BETWEEN CORONARY PERFUSION PRESSURE AND RETURN OF SPONTANEOUS CIRCULATION AFTER PROLONGED CARDIAC ARREST. **Joshua C. Reynolds, David D. Salcido, James J. Menegazzi**, *University of Maryland*

16. CATEGORIZATION OF POST-CARDIAC ARREST PATIENTS BY COMA AND CARDIOPULMONARY DYSFUNCTION PREDICTS INFLAMMATION AND OUTCOME **Jon C. Rittenberger, Frank X. Guyette, Samuel A. Tisherman, Clifton Callaway**, *University of Pittsburgh*

POSTER PRESENTATIONS

17. ENVIRONMENTAL FACTORS DO NOT AFFECT OUT-OF-HOSPITAL INTUBATION SUCCESS **Alex Garza, Matthew Gratton, Joseph Salomone, James McElroy, Daniel Lindholm, Darryl Coontz**, *Washington Hospital Center*

18. THE ABILITY OF EMS PERSONNEL TO CONFIRM ENDOTRACHEAL TUBE PLACEMENT USING ULTRASOUND **Joel A. Miller, Todd McArthur, Steven Bauer,** *Department of Emergency Medicine, C.R. Darnall Army Medical Center*

19. THE CCT CORE MULTICENTER HEMS AIRWAY STUDY: INITIAL 100 INTUBATIONS **Melissa M. Shear, Stephen D. Waterford, Robert Domeier, Deb Funk, Tom Judge, Russell D. MacDonald, John Madden, Tami O. Tiamfook-Morgan, Stephen H. Thomas,** *Massachusetts General Hospital and Harvard Medical School*

20. DISEASES LEADING TO PARAMEDIC ENDOTRACHEAL INTUBATION **Henry E. Wang, Goundappa K. Balasubramani, Lawrence J. Cook, Donald M. Yealy, Judith R. Lave,** *University of Alabama at Birmingham*

21. IS PREHOSPITAL NIPPV APPLICABLE IN URBAN SETTING WITH SHORT TRANSPORT TIME? **Abdulaziz Alrajhi,** *University of Ottawa, Department of Emergency Medicine*

22. USE OF AN IMPEDANCE THRESHOLD DEVICE INCREASES BLOOD PRESSURE IN SPONTANEOUSLY BREATHING HYPOTENSIVE PATIENTS **David A. Lindstrom, Brent A. Parquette,** *Lucas County EMS - Promedica Transportation Network*

23. STRATEGIES OF HIGH-PERFORMING PARAMEDIC EDUCATION PROGRAMS **Gregg S. Margolis, Gabriel A. Romero, Antonio R. Fernandez, Jonathan R. Studnek,** *National Registry of EMTs*

24. THE RELATIONSHIP BETWEEN EMT-BASIC EXAM SCORE AND SUCCESS ON THE NATIONAL PARAMEDIC CERTIFICATION EXAM **Antonio R. Fernandez, Jonathan R. Studnek,** *National Registry of EMTs*

25. DOES PARAMEDIC STUDENT ETHNICITY IMPACT THE LIKELIHOOD OF PROVIDING ALS INTERVENTIONS TO CAUCASIAN VERSUS NON-CAUCASIAN PATIENTS? **Timothy Brisbin, Kim McKenna, Chad S. Kim, Timothy Howey, A. Lauren. Crain, Charles Soucheray, Erik Hanson,** *The Center for Prehospital Medicine*

26. ASSESSMENT OF HEALTHCARE PROVIDER LEVEL CPR PROFICIENCY FOR STUDENTS ENTERING THE EMERGENCY MEDICAL TECHNICIAN BASIC PROGRAM **Charles Livezey, Scott A. Matin, Peter Dworsky, Robert Bauter, Philip Shepherd,** *Monmouth-Ocean Hospital Service Corporation*

27. EVALUATION OF THE EFFECT OF EDUCATION ON PREHOSPITAL INTRAOSSEOUS ACCESS BY LEVEL-1 EMERGENCY MEDICAL TECHNICIANS **Ki Ok Ahn, Sang Do Shin, Jin Hee Jung, Do Kyun Kim,** *Seoul Fire Academy*

28. ASSESSING COMPETENCY AMONG LOW FREQUENCY EMS PROVIDERS
Jonathan R. Studnek, Antonio R. Fernandez, Gregg S. Margolis, *National Registry of EMTs*

29. IMPACT OF PROLONGED CPR ON CHEST WALL COMPLIANCE DURING OUT OF HOSPITAL CARDIAC ARREST **Allyson C. LaCovey, David D. Salcido, James J. Menegazzi, Joseph P. Condle, Clifton W. Calloway**, *University of Pittsburgh*

30. IMPACT OF NEW CPR/ADVANCED CARDIAC LIFE SUPPORT GUIDELINES ON OUTCOME FROM OUT OF HOSPITAL CARDIAC ARREST
Marc Eckstein, *Los Angeles Fire Department*

31. ASSESSING THE QUALITY OF OUT OF HOSPITAL CARDIAC RESUSCITATION-CPR RATES ARE DECREASED PRIOR TO ADVANCED AIRWAY MANAGEMENT **Waqaas Ahamad, Patrick B. Medado, Duane Robinson, William Walker, Justin Kessler, Robert Swor**, *William Beaumont Hospital*

32. HOW EFFECTIVE IS MANUAL CPR IN A MOVING AMBULANCE?
Damien Ryan, *Cork University Hospital*

33. FAILURE MODE EFFECTS ANALYSIS (FMEA) DETERMINATION OF HIGH RISK CPR COMPONENTS FOR OUT-OF-HOSPITAL PEDIATRIC CARDIAC ARREST **Valerie J. De Maio, Kevin A. Paduchowski, Vinay Nadkarni, Robert C. Lee, Martin Osmond, Ian G. Stiell, Robert A. Berg, J. Brent Myers**, *CanAm Study Group, WakeMed Health and Hospitals*

34. CPR PERFORMANCE MEASURES OF POLICE OFFICERS COMPARED TO THOSE OF PARAMEDICS IN OUT-OF-HOSPITAL CARDIAC ARREST
Marc-Andre Da Ponti, Ian G. Stiell, My-Linh Tran, Christian Vaillancourt, Pierre Poirier, Peter Kelly, John Trickett, Justin Maloney, *University of Ottawa*

35. THE ASSOCIATION OF ENDOTRACHEAL INTUBATION AND SURVIVAL IN NON-TRAUMATIC CARDIAC ARREST **Rollin J. Fairbanks, A Zachary Hettinger, Manish N. Shah**, *University of Rochester*

36. TEN YEARS OF PARAMEDIC WITNESSED CARDIAC ARREST; WHO ARE THE SURVIVORS? **Alex Garza, Joseph Salomone, Matthew Gratton, Daniel Lindholm, James McElroy**, *Washington Hospital Center*

37. CARDIAC ARREST OUTCOMES WORSE FOR UNINSURED, WOMEN, AND AT THE EXTREMES OF AGE: A MULTIVARIATE ANALYSIS OF THE NATIONWIDE INPATIENT SAMPLE **Comilla Sasson, Matthew M. Davis**, *University of Michigan*

38. BENCHMARKING UTILIZING THE CARDIAC ARREST REGISTRY TO ENHANCE SURVIVAL (CARES) SURVEILLANCE DATABASE **Comilla Sasson, Bryan McNally, University of Michigan**

39. OUT-OF-HOSPITAL CARDIAC ARREST IN KOREA **Seung Chul Lee, Sang Do Shin, Gil Joon Suh, Ki Ok Ahn, Working Group of Cardiovascular Surveillance Study, Dong Kuk University College of Medicine**

40. WHAT IS THE OPTIMAL STRATEGY FOR TRIAGING FIELD MI PATIENTS? **Robert Swor, Duane Robinson, Patrick Medado, Ann McHugh-McNally, William Beaumont Hospital**

41. STEMI TREATMENT TIMES WITH 'FIRST MEDICAL CONTACT' DEFINED AS THE TIME OF 9-1-1 CALL RECEIPT. **Rosalyn Reades, Thomas Blackwell, Hadley Wilson, Sidney Fletcher, Bradley Watling, Gary Niess, Scott Valeri, Lee Garvey, Carolinas Medical Center**

42. PREHOSPITAL 12 LEAD ECG EXPEDITES ASSESSMENT AND TRANSPORT OF STEMI PATIENTS **James V. Dunford, Edward Castillo, Robert Sobehart, Ekta Patel, John Pringle, Ginger Ochs, Ehtisham Mahmud, UCSD Medical Center**

43. PRIMARY CORONARY INTERVENTION REPERFUSION TIMES LESS THAN 60 MINUTES ARE ASSOCIATED WITH IMPROVED SURVIVAL IN ST-SEGMENT ELEVATION MYOCARDIAL INFARCTION. **Lee Garvey, Thomas Blackwell, Angela Humphrey, Patricia Pye, Kevin Collier, Robert Haber, Hadley Wilson, Carolinas Medical Center**

44. PRE-HOSPITAL IDENTIFICATION OF STEMI: AN EVALUATION OF INDEPENDENT ECG INTERPRETATION BY PARAMEDICS **John P. Trickett, Richard Dionne, Justin Maloney, Peter Kelly, Ian Stiell, Ottawa Hospital**

45. EMS TRANSPORT OF STEMI IMPROVES DOOR-TO-BALLON TIME: ONE COMMUNITY'S EXPERIENCE **Alex Garza, Michael Levy, Washington Hospital Center**

46. EFFECT OF A NO-INFUSION POLICY ON DOOR TO NEEDLE TIMES OF ACS/STEMI PATIENTS **Stacy N. Weisberg, James A. Fitch, Diana L. Towner, University of Massachusetts Medical School**

47. ARRIVAL WITH EMS DOES NOT PREDICT ADMISSION FOR PATIENTS IN EXTREMES OF AGE WITH PALPITATIONS **Howard Felderman, Stephen Shih, Brian Walsh, Jeffery Luk, Morristown Memorial Hospital**

48. DETECTION OF ACUTE GLOBAL MYOCARDIAL ISCHEMIA ASSOCIATED WITH ACUTE LEFT MAIN CORONARY ARTERY OR MULTI-VESSEL OCCLUSION IN NON-ST ELEVATION MI BY A NEW DIAGNOSTIC 12-LEAD ECG ALGORITHM **Mohamud R. Daya, Ronald Startt/Selvester, Richard Gregg, Sophia Zhou**, *Oregon Health & Science University*

49. SAFE TRANSPORT OF PATIENTS WITH ACUTE CORONARY SYNDROME OR CARDIOGENIC SHOCK BY SKILLED AIR MEDICAL CREWS
Jan Trojanowski, Russell D. MacDonald, *Faculty of Medicine, University of Western Ontario*

50. PREHOSPITAL 12-LEAD ELECTROCARDIOGRAM PROGRAMS: A COST-EFFECTIVENESS ANALYSIS **Toni K. Gross, Peter Groeneveld**, *The Children's Hospital of Philadelphia, Leonard Davis Institute*

51. INFLUENCE OF ON-LINE MEDICAL CONTROL ON PREHOSPITAL STROKE TRIAGE **Aikta Verma, David J. Gladstone, Jiming Fang, Jordan Chenkin, Sandra E. Black, Peter R. Verbeek**, *University of Toronto*

52. MILWAUKEE ARE YOU READY? PERSONAL PREPAREDNESS AMONG EMERGENCY DEPARTMENT PATIENTS **Steven W. Zils, E. Brooke Lerner, Ronald Pirrallo**, *Medical College of Wisconsin*

53. EVACUATION OF HUMAN PATIENT SIMULATORS DURING PROJECT MOVES INTER-FACILITY DISASTER EXERCISES **Amar Patel, Valerie J. De Maio, Barbara Bisset, Dale Hill, Fran Powell**, *for the Project MoVES Study Group, WakeMed Health and Hospitals*

54. DETERMINATION OF FIELD PROVIDERS OPINIONS OF SALT TRIAGE
E. Brooke Lerner, Richard B. Schwartz, Phillip L. Coule, Ronald G. Pirrallo, *Medical College of Wisconsin*

55. EFFECT OF DISASTER DRILL ON THE KNOWLEDGE AND ATTITUDE ABOUT THE FIELD EMERGENCY CARE CENTER **Chu Hyun Kim, Sang Do Shin, Ju Ok Park, Seong Chun Kim, Gil Joon Suh**, *Seoul National University College of Medicine*

56. EDUCATIONAL EFFECTS OF DISASTER EMERGENCY LIFE SUPPORT COURSE: DIFFERENCES AMONG PROFESSIONAL GROUPS
Seong Chun Kim, Sang Do Shin, Ki Ok Ahn, Ju Ok Park, *Gyeongsang National University Hospital*

57. USE OF SALT TRIAGE IN A SIMULATED MASS CASUALTY INCIDENT
E. Brooke Lerner, Richard B. Schwartz, Phillip L. Coule, Ronald G. Pirrallo, *Medical College of Wisconsin*

58. IMAGE QUALITY OF AN OFF-THE-SHELF TELEMEDICINE MODEL IN ACUTE WOUND MANAGEMENT: INITIAL PHASE OF AN ALTERNATE MEDICAL TREATMENT SITE DISASTER PLAN **Christine Van Dillen, Salvatore Silvestri, Marisa Haney, George Ralls, Christian Zuver, Lissa Diaz, Linda Papa**, *Orlando regional Medical Center*

59. A SIMULATION-BASED TRAINING INTERVENTION TO OPTIMIZE AIR MEDICAL SCENE TRAUMA MANAGEMENT **Paul R. Hinchey, Valerie J. De Maio, Amar Patel, Christine O'Neill, Fran Powell, Kevin A. Paduchowski**, *WakeMed Health and Hospitals*

60. EVALUATION OF CERVICAL MOTION DURING RAPID EXTRICATION USING A CERVICAL COLLAR AND THE SUPPLEMENTAL BLANKET ROLL TECHNIQUE **Daniel W. Olsson, William D. Grant, John W. Lyng, Nat Ordway, Jay Scott, Scott Cary**, *SUNY Upstate Medical University, Department of Emergency Medicine*

61. **(WITHDRAWN)** -RELIABILITY OF PREHOSPITAL GLASGOW COMA SCALE SCORE IN PREDICTING SIGNIFICANT TRAUMATIC BRAIN INJURY **Marianne J. Vandromme, Paul MacLennan, Russell L. Griffin, Shannon W. Stephens, Michael Minor, Jordan A. Weinberg, Sherry M. Melton, Loring W. Rue, Jeffrey D. Kerby**, *University of Alabama-Birmingham*

62. EVALUATION OF CERVICAL MOTION WHILE USING THE KENDRICK EXTRICATION DEVICE FOR MOTOR VEHICLE EXTRICATION **Daniel Olsson, John W. Lyng, William D. Grant, Jay Scott, Scott Cary, Nat Ordway, Adam Darnobid**, *SUNY Upstate Medical University, Dept. of Emergency Medicine*

63. A COMPARISON OF THE OHIO AND AMERICAN COLLEGE OF SURGEONS GUIDELINES IN IDENTIFYING TRAUMA CENTER NEED FOR OLDER ADULTS **Jeremy T. Cushman, Nirav B. Patel, Courtney M. Jones, Robert A. Swor, E. Brooke Lerner, Manish N. Shah**, *University of Rochester*

64. THE FEASIBILITY OF USING NEAR-INFRARED SPECTROSCOPY (NIRS) TO MONITOR TISSUE OXYGEN (STO₂) FOR TRAUMA PATIENTS IN A HELICOPTER EMS SYSTEM **Christopher Scott Russi, Kathleen Berns**, *Mayo Clinic*

65. DEFINING SEPSIS INTERVENTION INTERVALS IN THE ENCOUNTER OF SEPTIC SHOCK IN THE PRE-HOSPITAL ENVIRONMENT **Satheesh Gunaga, Jason Fletcher, Jedediah Walker, Vipul Kella, Ranjan Ginde**, *Henry Ford Wyandotte Hospital*

66. ARRIVAL BY EMS IS A PREDICTOR OF EMERGENCY DEPARTMENT DISPOSITION IN PATIENTS PRESENTING WITH ABDOMINAL PAIN

Stephen Shih, Howard Felderman, Brian Walsh, Jeffery Luk, Morristown Memorial Hospital

67. BACTERIAL CONTAMINATION OF EMS ENDOTRACHEAL INTUBATION EQUIPMENT **Adam Frisch, Michael W. Dailey, John Burton, University of Pittsburgh**

68. OPPORTUNITIES FOR EMERGENCY MEDICAL SERVICES CARE OF SEPSIS **Matthew Weaver, Henry E. Wang, Nathan I. Shapiro, Donald M. Yealy, University of Pittsburgh**

69. ARRIVAL WITH EMS PREDICTS ADMISSION IN PATIENTS WITH SHORTNESS OF BREATH REGARDLESS OF AGE **Howard Felderman, Stephen Shih, Brian Walsh, Jeffery Luk, Morristown Memorial Hospital**

70. CHARACTERISTICS OF ALTERED MENTAL STATUS PATIENTS IN THE PREHOSPITAL SETTING **Edward Durant, Karl Sporer, UCSF School of Medicine**

71. EMS TRANSPORT SAFETY DATA – WADING THRU THE MMUCC **Nadine Levick, EMS Safety Foundation**

72. ENGINEERING ANALYSIS OF ‘SAFETY CONCEPT’ AMBULANCES **Nadine Levick, Raphael Grzebieta, EMS Safety Foundation**

73. TRANSPORTATION SAFETY PERFORMANCE – HOW DOES EMS COMPARE TO COMMERCIAL FLEETS **Nadine Levick, EMS Safety Foundation**

74. FIREGROUND USE OF AN EMERGENCY ESCAPE RESPIRATOR **Carin M. Van Gelder, Donald S. MacMillan, David C. Cone, Yale University School of Medicine**

75. A LONGITUDINAL STUDY OF EMS EMPLOYEE TURNOVER: COSTS ASSOCIATED WITH NEW-HIRE PRODUCTIVITY **Paul Daniel Patterson, Nicholas Castle, Cheryl B. Jones, Michael Hubble, John Engberg, Matthew Carr, University of Pittsburgh**

76. FIREGROUND REHAB EVALUATION TRIAL: REHYDRATION (FIRE I) **David Hostler, James C. Bednez, Sarah Kerin, Steven E. Reis, Pui W. Kong, Julia L. Morley, Michael Gallagher, Joe Suyama, University of Pittsburgh**

77. RELATIONSHIP BETWEEN OFF-LOAD DELAYS AND AMBULANCE RESPONSE TIMES **Jacqueline Chu, McMaster University**

78. COMMUNICATION ERROR IN AIR TRANSPORT MEDICINE

Daniel S. Vilensky, Russell D. MacDonald, *University of Toronto*

79. EFFECT OF AN INDEPENDENT CAPACITY PROTOCOL ON

OVERCROWDING IN AN URBAN EMERGENCY DEPARTMENT **Won Chul Cha,**

Sang Do Shin, Kyoung Jun Song, Sung Koo Jung, Gil Joon Suh, *Hanlim hospital,*

Jeju

80. THE DEVELOPMENT AND TESTING OF CLINICAL QUALITY INDICATORS
FOR PREHOSPITAL CARE **Robert Owen, Stephen Campbell, Martin**

Roland, *University of Manchester, UK*

81. PHYSICIAN MEDICAL DIRECTION IS ASSOCIATED WITH
IMPROVED CLINICAL PERFORMANCE AT AN ESTABLISHED EMS SYSTEM

Shaun D. White, Marc-David Munk, Malcolm L. Perry, Mohammed S. Hardan,

Thomas E. Platt, Walt A. Stoy, *Hamad Medical Corporation EMS*

82. PROVIDER USE OF THE KING LTS-D AS A PRIMARY AIRWAY IN RSI

PATIENTS **Joshua G. Salzman, Sandi S. Wewerka, Kent R. Griffith, Ralph J.**

Frascone, *Regions Hospital EMS*

83. ADULT PREHOSPITAL RAPID SEQUENCE INTUBATION PROCESS MAP: A
CLINICAL MANAGEMENT TOOL **Ian Blanchard, Dwayne Clayden, Greg**

Vogelaar, Heather Klein-Swormink, Andy Anton, *The City of Calgary Emergency*

Medical Services

84. COMPARISON OF ETOMIDATE AND BENZODIAZEPINE USE FOR
FACILITATED PREHOSPITAL INTUBATION **Paul Barbara, Bradley J. Kaufman,**

John Freese, David Prezant, *New York City Fire Department*

85. DOES CLOSE PHYSICIAN OVERSIGHT IMPROVE THE QUALITY OF A RSI

PROGRAM? **Jeremy T. Cushman, Aaron N. Farney, A. Zachary Hettinger, Manish**

N. Shah, *University of Rochester*

86. BLIND PASSAGE OF A BOUGIE THROUGH THE KING LT AIRWAY IN
MANNEQUIN AND CADAVER MODELS. **Ren Kinoshita, Dustin Tauferner,**

Kermit Huebner, *Carl R. Darnall Army Medical Center*

87. A SYSTEMATIC REVIEW OF PREHOSPITAL AIRWAY MANAGEMENT
COMPARING TRACHEAL INTUBATION WITH THE USE OF BAG MASK

VENTILATION OR EXTRAGLOTTIC DEVICES BY PARAMEDICS **Jan L. Jensen,**

Ka Wai Cheung, John Tallon, Andrew H. Travers, *Dalhousie University Division of*

EMS/Emergency Health Services

88. REPEAT EMS USE BY OLDER ADULTS IN A RURAL COMMUNITY:IMPACT ON RESEARCH METHODS **Peter A. Swanson, Manish N. Shah, Karthik Rajasekaran, Ann Dozier**, *University of Rochester*
89. CARBON FOOTPRINTING OF EMS SYSTEMS: PROOF OF CONCEPT **Ian Blanchard, Lawrence H. Brown**, *The City of Calgary Emergency Medical Services*
90. EMS SURVEY AMONG HOSPITALS WITHIN PECARN **Kathleen A. Lillis, Julie Leonard, Kathleen Brown, Lynn Babcock Cimpello, N. Clay Mann, Tasmeen Singh, Michael Tunik, Peter Dayan, George Foltin**, *Women's and Children's Hospital of Buffalo*
91. EXTERNAL VALIDATION OF THE EMERGENCY SEVERITY INDEX IN A KOREAN EMERGENCY DEPARTMENT **Sang Do Shin, Jin Seong Cho, Lee Seung Chul, Kyoung Jun Song, Ju Ok Park, Ki Ok Ahn, Yu Jin Kim, Gil Joon Suh**, *Seoul National University Hospital, Korea*
92. DEVELOPMENT AND VALIDATION OF EXCESS MORTALITY RATIO-BASED EMERGENCY SEVERITY INDEX **Ki Jung Hong, Sang Do Shin, Kyoung Jun Song**, *Seoul National University College of Medicine*
93. THE SCIENTIFIC BASIS UNDERLYING THE SUBSPECIALTY OF EMS – A SYSTEMATIC REVIEW OF THE LITERATURE **Michael G. Millin, Catherine K. Craven, Lawrence H. Brown, Seth C. Hawkins, David K. Tan, Gina M. Piazza, Richard W. Sattin**, *Johns Hopkins University School of Medicine*
94. IMPROVED CHEST COMPRESSION QUALITY BY UNTRAINED INDIVIDUALS GUIDED BY VOICE PROMPTS. **Isabelle Claus, Paul A. Calle, Koenraad G. Monsieurs**, *Ghent University Hospital*
95. ANALYSIS OF PUBLIC-ACCESS DEFIBRILLATION IN OUT-OF-HOSPITAL CARDIAC ARREST: PLACEMENT AND USAGE **Duane M. Robinson, Nik Kolicaj, Emily Yocum, Jennifer Fowler, Robert Domeier, Robert A. Swor**, *William Beaumont Hospital*
96. EMS AGENCIES IMPLEMENTED THE 2005 AHA GUIDELINES FOR CPR AND ECC AN AVERAGE OF 416 DAYS AFTER THEIR RELEASE **Blair L. Bigham, Kent Koprowicz, John Stouffer, Tom Aufderheide, Judy Powell, Daniel Davis, Laurie Morrison, Stuart Donn, Sarah Nafziger, Brian Suffoletto, Ahamed Idris, Mike Helbock**, *Sunnybrook Health Sciences Centre at University of Toronto*
97. BYSTANDER CPR AND AED USE IN OUT-OF-HOSPITAL MEDICAL CLINIC CARDIAC ARRESTS **Steven C. Brooks, Laurie J. Morrison, Karen Lam**, *Sunnybrook Health Sciences Center*

98. POTENTIAL TIME-TO-DRUG ADMINISTRATION REDUCTION IF VASCULAR ACCESS PRECEDED INTUBATION DURING OUT-OF-HOSPITAL CARDIAC ARREST **James J. Menegazzi, Allyson C. LaCovey, Deylin I. Negron, Joseph P. Condle, Clifton W. Callaway**, *University of Pittsburgh*

99. PATIENTS WITH AN AED APPLIED BY A BYSTANDER IN A PUBLIC SETTING HAVE A STRIKINGLY HIGHER FREQUENCY OF VT/VF THAN OBSERVED CARDIAC ARRESTS IN THE HOME. **Myron L. Weisfeldt, Colleen Sitlani, Thomas Rea, Dianne L. Atkins, Tom Aufderheide, Blair Bigham, Steven Charles Brooks, Christopher Foerster, Joseph P. Ornato, Judy Powell, Lois Van Ottingham, Laurie J. Morrison**, *Johns Hopkins University School of Medicine*

100. THE USE OF THERAPEUTIC HYPOTHERMIA IN POST-CARDIAC ARREST PATIENTS: PHYSICIANS ARE WARMING UP TO THE IDEA. **Blair L. Bigham, Katie N. Dainty, Damon C. Scales, Laurie Morrison, Steven C. Brooks**, *Sunnybrook Health Sciences Centre at University of Toronto*

101. THE EFFECT OF AMBIENT TEMPERATURE ON ICED SALINE DURING SIMULATED INFUSION TO INDUCE THERAPEUTIC HYPOTHERMIA
Timothy J. Mader, *Baystate Medical Center/Tufts University School of Medicine*

102. IDENTIFYING THE OPERATIONAL ISSUES TO IMPLEMENTING A STANDARDIZED PROTOCOL FOR THE TERMINATION OF RESUSCITATION FOR OUT-OF-HOSPITAL-CARDIAC ARREST: A QUALITATIVE STUDY
Comilla Sasson, Bryan McNally, *University of Michigan*

103. EFFECT OF ENDOTRACHEAL DRUG ADMINISTRATION ON PORCINE LUNG **Erin K. Broderick, Francis Mencl, John Weigand, Michelle Chapman, Maureen Cheung, Marc Clapper**, *Resident physician, Summa Health System*

104. INTRAOSSEOUS LINE PLACEMENT DOES NOT IMPROVE OUTCOME IN ADULTS WITH OUT-OF-HOSPITAL CARDIAC ARREST **Robert C. Schutt, Bryson Bowman, Cihan Cevik, Nadia Essa, Maria Love Lee, Julian Macedo, Bruce Mowrey, Taylor Ratcliff, Richard L. Whitworth, Michael Phy**, *Texas Tech University School of Medicine*

105. CAN BASIC LIFE SUPPORT PROVIDERS ADMINISTER EPINEPHRINE SAFELY IN ANAPHYLAXIS? **Eli Segal, David Banon, Eric Lareau, Marc Afilalo**, *Urgences-sante*

106. EXTERNAL VALIDATION OF HEAD CT RULES IN ELDERLY PATIENTS WITH MINOR HEAD INJURY **Yu Jin Kim, Sang Do Shin, Young Sun Ro, Kyoung Jun Song, Gil Joon Suh**, *Seoul National University Hospital, Seoul*

107. IMPACT OF EMS IDENTIFICATION OF ANTI-COAGULATION ON TIME TO DIAGNOSIS OF TRAUMA PATIENTS **Duane M. Robinson, Yonatan Lemma, Patrick Medado, Robert A. Swor**, *William Beaumont Hospital*

108. COMPARISON OF EMS VS. ED EVALUATIONS OF THE TRAUMA PATIENT USING THE KAMPALA TRAUMA SCORE **Kay Vonderschmidt, Chris L. Lindsell, Donald A. Locasto**, *University of Cincinnati*

109. INTRAVENOUS FLUID RESUSCITATION: COMPARATIVE FLOW RATES OF CRYSTALLOID SOLUTION THROUGH VARIOUS CATHETERS
Jason Andrew Carter, Kevin Tishkowski, Michelle M. McLean, *Synergy Medical Education Alliance*

110. THE PREHOSPITAL ULTRASOUND STUDY: RESULTS OF THE FIRST 6 MONTHS **William G. Heegaard, Jeff Ho, David A. Hildebrandt**, *Hennepin County Medical Center*

111. INFORMATION LOSS IN HANDOVER OF TRAUMA PATIENTS **Alix Carter, David C. Cone**, *Yale University/ Nova Scotia EHS*

112. THE EMERGENCY MEDICAL SERVICES ROLE IDENTITY SCALE (EMS-RIS): A VALIDATION STUDY **Elizabeth A. Donnelly**, *Florida State University*

113. SEATBELT USAGE BY EMS PROVIDERS **Eric Evan Maur**, *Geisinger Medical Center*

114. EVALUATION OF OCCUPATIONAL INJURIES IN AN URBAN EMERGENCY MEDICAL SERVICES SYSTEM BEFORE AND AFTER IMPLEMENTATION OF MECHANICAL STRETCHERS **Jonathan R. Studnek, J. Mac Crawford, Antonio R. Fernandez**, *National Registry of EMTs*

115. THE UTILIZATION OF DRIVECAM™ WITH A FORMAL FEEDBACK AND REVIEW PROCESS IMPACTING AMBULANCE DRIVING BEHAVIOR **Lucas Myers, Matthew D. Will, Christopher Scott Russi**, *Mayo Clinic Medical Transport*

116. SLEEP QUALITY AND FATIGUE AMONG PREHOSPITAL PROVIDERS
Paul Daniel Patterson, Brian Suffoletto, Dave Hostler, Doug Kupas, Matthew Weaver, *University of Pittsburgh*

117. SLEEP DEBT AND SOCIOECONOMIC FACTORS INFLUENCING SLEEP IN EMERGENCY MEDICAL TECHNICIANS PRIOR TO THE ONSET OF SHIFT-WORK
Harold Jay Cooper, Raymond Little, Frank Sabatino, Ann J. Impens, Christopher Surfield, Kevin Tishkowski, *Mobile Medical Response, Inc.*

118. FACTORS AFFECTING PSYCHOLOGICAL OUTCOMES FOLLOWING CRITICAL INCIDENTS IN EMERGENCY MEDICAL TECHNICIANS **Brian Schwartz, Robert G. Maunder, Janice Halpern, Maria Gurevich**, *Sunnybrook Osler Center for Prehospital Care, University of Toronto*

119. COMPARING THE ACCURACY OF HISTORICALLY-DERIVED EMS RESPONSE PLANS AGAINST MEDICAL PRIORITY DISPATCH SYSTEM'S STANDARD "ALPHA-TO-ECHO" RESPONSE RECOMMENDATIONS **Alan M. Craig, Rick Verbeek, Brian Schwartz, Michael Feldman**, *Toronto Emergency Medical Services*

120. DOES EMERGENCY MEDICAL DISPATCH PRIORITY PREDICT A DELPHI PROCESS DERIVED LEVEL OF PREHOSPITAL INTERVENTION? **Nicholas J. Johnson, Karl A. Sporer, Alan Craig, Clement Yeh**, *University of California, San Francisco*

121. RELATIONSHIPS OF DAILY 911-EMERGENCY MEDICAL SERVICE (EMS) RESPONSE VOLUMES TO LUNAR CYCLES, HOLIDAYS, DAYS OF THE WEEK, MONTHS OF THE YEAR, AND DAILY PRECIPITATION **Kevin Tishkowski, Lori Failes, Raymond Little, Steve Myers, Ann J. Impens**, *Mobile Medical Response, Inc.*

122. THE EFFECT OF A NEW EMS RESOURCE MANAGEMENT POLICY ON AMBULANCE RESPONSE TIME TO HIGH PRIORITY INCIDENTS **Julian L. Regehr**, *University of Manitoba*

123. IMPROVING TIMELY ACCESS TO CARE:USE OF GEOGRAPHIC INFORMATION SYSTEMS TO DETERMINE NEW HELIPAD LOCATIONS IN AIR MEDICAL TRANSPORT **Cheryl PZ. Foo, Russell D. MacDonald, Mahvareh Ahghari**, *University of Toronto*

124. CHARACTERISTICS OF PARAMEDIC INTERCEPTS WITH BASIC LIFE SUPPORT AMBULANCE SERVICES **Lucas Myers, Christopher Scott Russi**, *Mayo Clinic Medical Transport*

125. RELIABILITY AND VALIDITY OF PREHOSPITAL CASE FINDING FOR DEPRESSION AND COGNITIVE IMPAIRMENT **Manish N. Shah, Peter A. Swanson, Jurgis Karuza, Erik Rueckmann, Yeates Conwell, Paul Katz**, *University of Rochester*

126. ANALYSIS OF MEDICAL AND PUBLIC HEALTH TRENDS IN AFTER ACTION REPORTS **Costanza Galastri, Julie E. Fischer, Peter J. Roman, Matthew E. Haskins, Naya S. McMillan, Kevin Yeskey, William C. Vanderwagen, David E. Marcozzi**, *Emergency Care Coordination Center, DHHS, ASPR*

127. IDENTIFICATION AND EVALUATION OF LOW ACUITY PATIENTS REQUESTING EMS BUT NOT NECESSARILY REQUIRING RESPONSE:THE OMEGA-NURSE CALL CENTER PROJECT, PHASE I. **Lars Thestrup, Jim Montoya, Howell Sasser, Tom Blackwell**, *Carolinas Medical Center/Medic*

128. TIMBER MEDIC PROGRAM PHASE I - NEEDS ASSESSMENT OF EMERGENCY HEALTH CARE IN A LOGGING ENVIRONMENT **Juan March, M. Jane Pollock, George R. McDuffie, James Stumpff, Ferguson Jeffrey**, *East Carolina University*

129. WALK-IN PATIENTS PRESENTING TO AN URBAN EMERGENCY DEPARTMENT ARE ADMITTED TO THE HOSPITAL LESS FREQUENTLY THAN WALK-IN PATIENTS AT A SUBURBAN EMERGENCY DEPARTMENT **Patrick Matthews, Craig Durie, Sandra Hypes, Diane McGinnis-Hainsworth, James Reed III, Ross Megargel**, *Christiana Care Health Services*

130. UTILIZATION OF EMS BY PATIENTS WITH MOOD DISORDERS **Jeffery Luk, Howard Felderman, Brian Walsh, Stephen Shih**, *Morristown Memorial Hospital*

131. A SYSTEMATIC REVIEW OF ETOMIDATE AND ADRENAL INSUFFICIENCY IN CRITICALLY ILL PATIENTS **A.J. Hegg, Comilla Sasson, Jason Dahl, Gina Hug, Ronny Otero**, *Henry Ford Health System*

132. PREDICTION MODEL FOR NEED OF CRITICAL CARE IN PREHOSPITAL PATIENTS **Ju Ok Park, Sang Do Shin, Yu Jin Kim, Kyoung Jun Song, Ki Ok Ahn**, *Cheju National University Hospital, Jeju-Do*

133. INTOXICATED PATIENTS WHO ARRIVE WITH EMS ARE LESS LIKELY TO BE ADMITTED THAN THOSE WHO ARRIVE BY OTHER MEANS **David Sturm, Brian Walsh**, *Morristown Memorial Hospital*

134. ARRIVAL WITH EMS IS NOT ASSOCIATED WITH A HIGHER ADMISSION RATE IN CHILDREN WITH ASTHMA **Stephen Shih, Howard Felderman, Brian Walsh, Jeffery Luk**, *Morristown Memorial Hospital*

135. CAN EMS PROVIDERS ACCURATELY TRIAGE LOW ACUITY PATIENTS TO A FREESTANDING EMERGENCY MEDICAL FACILITY? **Roger M. Stone, Michael A. McAdams, Patrick Spevak, Thomas Carr, Robert Landry, Benjamin Lawner**, *University of Maryland*

136. AN EVALUATION OF EMT AND PARAMEDIC COMPLIANCE WITH VITAL SIGNS DOCUMENTATION TO PRESCRIBED TIME INTERVALS **John Trickett, Robert Burgess, Pierre Poirier, John Prno, Mary Ellen Duff**, *Ottawa Base Hospital Program*