ORAL ABSTRACTS (IN PRESENTATION ORDER)

Oral Abstracts Session 1 – 11:00 a.m. – 12:00 p.m. Tuesday, January 24
10 minutes per presentation

#1 Does Compliance with the AHA Guideline Recommendations for CPR Quality Predict Survival from Out-of-Hospital Cardiac Arrest?
Sheldon Cheskes; Rob Schmicker; Laurie Morrison; Tom Rea; Brian Grunau; Ian Drennan; Brain Leroux; Christian Vaillancourt; Terri Schmidt; Anne Koller; Peter Kudenchuk; Tom Aufderheide; Heather Herren; Gary Vilke; Kate Flickinger; Mark Charleston; Ron Straight; Jami Jasti; Jim Christenson, Sunnybrook Centre for Prehospital Medicine, University of Toronto

#2 Advanced vs. Basic Life Support in the Treatment of Out-of-Hospital Cardiopulmonary Arrest in the Resuscitation Outcomes Consortium
Michael Kurz; Robert Schmicker; Brian Leroux; Graham Nichol; Thomas Aufderheide; Sheldon Cheeks; Brian Grunau; Jamie Jasti; Paul Kudenchuk; Gary Vile; Jason Buick; Lauren Wittwer; Ritu Sahni; Ashley Brienza; Ronald Straight; Henry Wang, University of Alabama at Birmingham

#3 Ventricular Fibrillation Quantitative Electrocardiogram Measures Associated with Return of Organized Rhythm in Out-of-Hospital Cardiac Arrest
Matthew Sundermann; David Salcido; Allison Koller; Katharyn Flickinger; James Menegazzi, University of Pittsburgh

#4 Detection of Spontaneous Pulse Using Acceleration Signals Acquired from CPR Feedback Sensor in Porcine Model of Cardiac Arrest
Weilun Quan; Liang Wei; Tao Yu; Peng Gao; Yongqin Li, ZOLL Medical

#5 Compression-to-Ventilation Ratio and Incidence of Rearrest: A Secondary Analysis of the ROC CCC Trial
David Salcido; Robert Schmicker; Jason Buick; Sheldon Cheskes; Brian Grunau; Peter Kudenchuk; Brian Leroux; Stephanie Zellner; Dana Zive; Tom Aufderheide; Allison Koller; Heather Herren; Jack Nuttall; Matthew Sundermann; The Resuscitation Outcomes Consortium, University of Pittsburgh School of Medicine

#6 Emergency Medical Services Response Time and Pediatric Mortality and Morbidity in Two Urban Centres in Alberta, Canada
Amy Coupethwaite; Ian Blanchard; Dirk Chisholm; Christopher Doig; Alberto Nettel-Aguirre; Gregory Vogelaar; Wadhah Almansoori; Tania Embree; Don Voaklander; Brent Hagel, Department of Kinesiology and Health Sciences, York University

Oral Abstracts Session 2 – 4:00 p.m. – 5:00 p.m. Tuesday, January 24
10 minutes per presentation

#9 The Impact of Burnout on the EMS Workforce
Remle Crowe; Julie Bower; Rebecca Cash; Ashish Panchal; Severo Rodriguez; Susan Olivo-Marston, The National Registry of EMTs

#11 Can EMS Providers Provide Appropriate Tidal Volumes in a Simulated Adult-Sized Patient with a Pediatric-Sized Bag-Valve-Mask?
Melissa Kroll; Jeffrey Siegler; Susan Wojcik; Hawnwan Philip Moy, Washington University School of Medicine

#14 Changes in Physiologic Measures following Prehospital Midazolam Administration: A Quality Assurance Study
Juliana Lefebre; Juliana Lefebre; Steve Fravel; Angus Jameson, Jefferson College of Health Sciences; Pinellas County EMS and Fire Administration

#16 Factors Predicting a Negative Perception of Patient Safety in the EMS Workplace
Rebecca Cash; Remle Crowe; Severo Rodriguez; Roger Levine; Lee Varner; Tina Hilmas; Alex Christgen; Ashish Panchal, The National Registry of EMTs

#17 Remote Ischemic Conditioning to Reduce Reperfusion Injury during Acute STEMI: A Systematic Review and Meta-analysis
Sheldon Cheskes; Ala Iansavitchene; Shelley McLeod, University of Toronto

#20 The prevalence and characteristics of non-transported EMS patients in Nova Scotia
Judah Goldstein, Province of Nova Scotia, Department of Health and Wellness

Oral Abstracts Session 3 – 9:30 a.m. – 10:30 a.m. Wednesday, January 25
10 minutes per presentation

#8 Widespread Implementation of a Prehospital Selective Spinal Motion Restriction Protocol Is Not Associated with Increased Spinal Cord Injury
Franco Castro-Marín; Joshua Gaither; Robyn Blust; Vatsal Chikani; Anne Vossbrink; Rogelio Martinez; Bentley Bobrow, HonorHealth, Emergency Department

#22 How mobile is immobilization? Spinal motion restriction versus immobilization during ambulance transport
Neil McDonald; Florent Thezard; Dean Kriellaars; Rob Pryce, Winnipeg Fire Paramedic Service

#24 Prehospital Utilization of Intravenous Catheters in Children
Kathleen Adelgais; Lina Brou; Kelsey Spaur; Sean Caffrey; Timothy VanderKooy, University of Colorado School of Medicine

#25 The Proliferation of Mobile Telephones has Reduced Some Motor Vehicle Crash Notification Times, but Not Crash Fatality Rates
Jimmy Stickles; Lawrence Brown, UT Austin Dell Medical School Emergency Medicine Residency

#26 Compulsory Use of the Backboard is Associated with Increased Frequency of Thoracolumbar Imaging
Brian Clemency; Christopher Tanski; Jennifer Gibson Chambers; Michael O’Brien; Andrew Knapp; Alexander Clark; Patrick McGoff; Johanna Innes; David Hostler; Heather Lindstrom, University at Buffalo

#29 Implementation of the Canadian C-Spine Rule by Paramedics: A Safety Evaluation
Christian Vaillancourt; Manya Charette; Julie Sinclair; Justin Maloney; Richard Dionne; Peter Kelly; George Wells; Ian Stiell, Department of Emergency Medicine, University of Ottawa
Oral Abstracts Session 4 (Concurrent Session A) – 1:30 p.m. – 2:30 p.m. and 3:00 p.m. – 4:00 p.m.
Wednesday, January 25
10 minutes per presentation

#7 The Multi-year Impact of Continuing a Comprehensive Dispatcher-assisted CPR Guidelines on Bystander CPR and Survival from Out-of-Hospital Cardiac Arrest in a Horizontal Dispatch System
Patrick Chow-In Ko; Kah-Meng Chong; Hui-Chih Wang; Yun--Chung Yang; Chang-Ming Tsai; Chih--Ming Hsu; Matthew Huei-Ming Ma; Shu--An Ho; Yu-Wen Chen, Department of Emergency Medicine, National Taiwan University Hospital

#13 Differential Correlation of ETCO2 and CPR Quality between Out-of-Hospital Arrests of Cardiac and Respiratory Etiology
Chengcheng Hu; Dan Spaite; Annemarie Silver; Josh Gaither; Robyn McDannold; Margaret Mullins; Tyler Vadeboncoeur; Bentley Bobrow, Department of Epidemiology and Biostatistics, University of Arizona

#18 CPR Quality during Out-of-Hospital Cardiac Arrest Transport
Sheldon Cheskes; Cathy Zhan; Adam Byers; Dennis Ko; Richard Verbeek; Ian Drennan; Ahmed Taher; Steve Lin; Steve Brooks; Jason Buick; Laurie Morrison, Sunnybrook Centre for Prehospital Medicine, Rescu, Li Ka Shing Knowledge Institute

#19 Head up cardiopulmonary resuscitation lowers intracranial pressure and improves cerebral perfusion pressure during prolonged CPR in a porcine model of ventricular fibrillation
Johanna Moore; Nicolas Segal; Michael Lick; Guillaume Debaty; Kenneth Dodd; Bayert Salverda; Keith Lurie, Department of Emergency Medicine, Hennepin County Medical Center

#21 Feasibility of Amplitude Spectrum Area Estimation in Ventilation Pauses during Cardiopulmonary Resuscitation
Weilun Quan; Liang Wei; Chenxi Dai; Peng Gao; Yongqin Li, ZOLL Medical

#30 Predicting survival after pediatric out-of-hospital cardiac arrest
Ian Drennan; Kevin Thorpe; Sheldon Cheskes; Muhammad Mamdani; Damon Scales; Anne Marie Guerguerian; Laurie Morrison, Rescu, Li Ka Shing Knowledge Institute, St. Michael’s Hospital; University of Toronto

#10 Evaluation of Prehospital Hypoxia “Depth-Duration Dose” and Mortality in Major Traumatic Brain Injury
Daniel Spaite; Chengcheng Hu; Bentley Bobrow; Vatsal Chikani; Joshua Gaither; Bruce Barnhart; P. David Adelson; Amber Rice; Kylie Grady; Kurt Denninghoff; Samuel Keim; Chad Viscusi; Terry Mullins; Duane Sherrill, Arizona Emergency Medicine Research Center, University of Arizona

#12 Predictors of Being Dispatched as Stroke and Impact on Prehospital Care of Ischemic Stroke Patients
Timmy Li; Jeremy Cushman; Manish Shah; Adam Kelly; David Rich; Courtney Jones, University of Rochester School of Medicine and Dentistry

#15 An Observational Multicenter Study of a Direct-to-CT Protocol for EMS-Transported Patients with Suspected Stroke
David Cone; Craig Cooley; Jeffrey Ferguson; Andrew Harrell; Jeffrey Luk; Christian Martin-Gill, Yale University School of Medicine

#23 Active Intrathoracic Pressure Regulation during Post Cardiac Arrest Care Significantly Reduces Vasopressor Requirements, Improves Cerebral Blood Flow and Neurologically Intact Survival
Anja Metzger; Michael Lick; Paul Berger; Nicolas Segal; Aaron Robinson; Johanna Moore; Keith Lurie, University of Minnesota

#27 Accuracy of Prehospital Documentation of Hypoxia Compared to Continuous Non-Invasive Monitor Data Tracking in Major Traumatic Brain Injury
Bruce Barnhart; Daniel Spaite; Eric Helfenbein; Octavio Perez; Saeed Babaeizadeh; Chengcheng Hu; Vatsal Chikani; Joshua Gaither; Duane Sherrill; Kurt Denninghoff; Samuel Keim; Chad Viscusi; Amber Rice; Bentley Bobrow, Arizona Emergency Medicine Research Center, University of Arizona

#28 Prospective Prehospital Evaluation of the Cincinnati Prehospital Stroke Severity Scale
Jason McMullan; Brian Katz; Joseph Broderick; Pamela Schmit; Heidi Sucharew; Opeolu Adeoye, University of Cincinnati

POSTER ABSTRACTS (IN GROUP ORDER)
Poster Session 1 (#31-130): 5:00 p.m. – 6:15 p.m. Tuesday, January 24

GROUP 1: Helicopter/Triage
#41 Helicopter Usage on Overall Mortality in Out of Hospital Injuries: Is there an impact from change in utilization after a crash?
Novneet Sahu; David Leventhal; Mia Papas; Brittany Cheadle; Ross Megargel, Christiana Care Health System

#76 Helicopter vs Ground inter-facility transfer of STEMI Patients.
Francis Guyette; Patrick Williams; Denisse Sequerria; Christian Martin-Gill, University of Pittsburgh

#55 Fatigue mitigation in air-medical emergency care systems: Preliminary report on the SleepTrackTXT2 randomized controlled trial
P. Daniel Patterson; Charity Moore; Frank Guyette; Jack Doman; Denisse Sequeira; Howard Werman; Doug Swanson; David Hostler; Joshua Lynch; Lindsey Russo; Linda Hines; Karen Swecker; Michael Runyon; Daniel Buysse, University of Pittsburgh, Department of Emergency Medicine

#84 Mental Health Triage Helps Treat and Navigate Psychiatric Patients to Appropriate Resources
Stein Bronsky; Stein Bronsky; Constance McGraw, Principal Investigator

#91 A SCOPING REVIEW OF HOW FRAILTY IS IDENTIFIED IN EMS AND EMERGENCY DEPARTMENT SETTINGS
Judah Goldstein; Olga Theou; Kayla Mallery; Emma Squires; Joshua Armstrong; Jennifer Greene; Beverly Douglas; Jacques Lee; Kenneth Rockwood, Emergency Health Services

#106 A Descriptive Analysis of Medical Care Provided by US Law Enforcement Personnel Prior to EMS Arrival.
Matthew (3rd Author) Sztajnkrycer; S (1st Author) Core; Christine (2nd Author) Lohse, Department of Emergency Medicine, Mayo Clinic
#118 Needs Matched Time Appropriate Resource Allocation: A Novel Triage and Dispatch Program for Mobile Integrated Healthcare
Jonathan Sague; J. Myers; Gregory Scott; Samuel Brown; Daniel Connor, Evolution Health

#123 Latin America Intensive Care Unit Disaster Preparedness: Results from a web-based KAP Survey
Kaitlin McIntyre; Meghan Lardy; Clark Chen; Amado Baez, University of Miami Miller School of Medicine

#64 Prospective Evaluation of a Protocol to Limit Unnecessary Transport of Patients with Simple Falls in Assisted Living Facilities: A Partnership Between EMS and Primary Care
Jefferson Williams; Michael Bachman; Benjamin Currie; Michael Lyons; Wooten Jones; Jose Cabanas; Alan Kronhaus; Brent Myers, Wake County Department of EMS

#95 Which MPDS dispatch codes generate the highest lights and siren emergency transport rate from scene to hospital?
Brenda Lanan; Darren Braude; Kurt Krumperman, NREMT-P, University of New Mexico and Duke University

GROUP 2: Pediatrics
#35 Performance of the Pediatric Emergency Care Applied Research Network (PECARN) cervical spine injury (CSI) risk model using emergency medical services (EMS) provider observations
Julie Leonard; Nathan Kuppermann; Lorin Browne; Hamilton Schwartz; Fahd Ahmad; Alyssa Janezic; Michael Wallendorf; E. Lerner, Nationwide Children's Hospital, Center for Injury Research and Policy

#44 Comparing the Accuracy of Mass Casualty Triage Systems in a Pediatric Population
Robert Heffernan; E. Brooke Lerner; Courtney McKee; Lorin Browne; M. Ricardo Colella; J. Marc Liu; Richard Schwartz, Medical College of Wisconsin

#66 Pediatric Out-Of-Hospital Cardiac Arrest In Southern Ontario
Ian Drennan; Sheldon Cheskes; Anne Marie Gueguerian; Muhammad Mamdani; Damon Scales; Kevin Thorpe; Laurie Morrison, Rescu, Li Ka Shing Knowledge Institute, St. Michael's Hospital; University of Toronto

#51 Determining EMS Provider Knowledge of Pediatric and Obstetric Patient Care: Knowledge Test Creation, Validation, and Deployment
Julianne Cyr; Steven Gunn; Thomas Hunold; Hillary Owino; Brian Barrier; Jane Brice, Department of Emergency Medicine, University of North Carolina at Chapel Hill

#60 Clinical and Demographic Factors Associated with Emergency Medical Services Arrival to a Pediatric Emergency Department
Allen Yiu; Kristen Breslin; Joelle Simpson; Kathleen Brown, George Washington University School of Medicine and Health Sciences

#90 Assessment of an ideal Weight for Age Based Dosing Education for EMS using Simulated Encounter
Manu Madhok; Ernest Krause; James Levi, Children's Minnesota

#115 Pediatric Transport Practices Among Prehospital Providers
Lisa Drago; George Fidacaro, Cooper University Hospital

#121 Examining Current Practices for Safe Transport of Children in Ground Ambulances
Toni Gross; Jose Ponce Rios; Angelica Baker, University of Arizona College of Medicine-Phoenix, Phoenix
Children’s Hospital

#130 Description of prehospital pediatric emergency call types throughout North Carolina
Sanniya Nanda; Michael Mastropole; Sean Kaye; Jane Brice; James Winslow; Antonio Fernandez,
Department of Emergency Medicine, University of North Carolina - Chapel Hill

#34 To tube or not to tube?: ALS providers perspectives on pediatric intubation and airway
management in the field
Sylvia Owusu-Ansah; Asa Margolis; Jennifer Anders; Jason Cruz; Nelson Tang; Matthew Levy, Johns
Hopkins School of Medicine Emergency Medicine EMS Fellowship

GROUP 3: Sepsis/STEMI/Narcan
#39 Prehospital qSOFA Scores Have Low Sensitivity but High Specificity for Identification of Patients
with Severe Sepsis
Maia Dorsett; Melissa Kroll, MD; Clark Smith, MD; Philip Asaro, MD; Stephen Liang, MD MPHs;
Hawnwan Moy, MD, Washington University in St. Louis, Division of Emergency Medicine

#50 Does the introduction of a prehospital sepsis screening tool result in better identification of sepsis
by paramedics?
Julie Sinclair; Laura Thomas; Susan Duncan; Michael Austin, Regional Paramedic Program for Eastern
Ontario

#103 A Prehospital Sepsis Alert Protocol Decreases Door to Antibiotic Time but Performs Poorly in
Identifying Patients Admitted with Sepsis
Jeremy Cushman; Timmy Li; Shahram Ahari; Raj Murugappan; Constance Vernetti; Courtney Jones,
University of Rochester Department of Emergency Medicine

#122 A comparison of distance from the hospital and outcomes in patients with severe sepsis/septic
shock
Jessica Gershen; Desmond Fitzpatrick; Jason Jones; Matthew Tice; Christine Van Dillen, University of
Florida Health/Shands, EMS fellowship

#105 ASSESSMENT OF THE SAFETY OF A NEWLY IMPLEMENTED BLS-D STEMI BYPASS PROTOCOL
Jonathan Kwong; Garry Ross; Linda Turner; Christopher Olynyk; Adam Thurston; Sheldon Cheskes;
Richard Verbeek, University of Toronto, Toronto, Canada

#120 Association of emergency medical service activation to emergent coronary angiography time
with survival and neurological outcome after out-of-hospital cardiac arrest
Joo Jeong; Sang Do Shin; Young Sun Ro, Seoul National University Hospital

#110 IMPACT OF THE IMPLEMENTATION OF A PROVINCE-WIDE PREHOSPITAL ECG PROGRAM ON
TREATMENT DELAYS IN PATIENTS WITH ST-ELEVATION MYOCARDIAL INFARCTION
Eli Segal; Dave Ross; Sébatien Maire; Laurie Lambert; Leila Azzi; Lucy Boothroyd; Jean-Pierre Déry; Richard Harvey; Simon Kouz; Philippe L'Allier; Maryse Mercier; Normand Racine; Stéphane Rinfret; Peter Bogaty, Urgences-santé; Dépt de Méd. Préhospitalière, Hôp.Sacré-cœur; Jewish General Hosp.

#68 Expanding Naloxone Availability to First Responders and EMTs: Treating More Patients Faster
David Strong; Vesta Anilus; Sean Larkins; Robert Dunne, Wayne State University/DMC

#89 First 100 Cases of BLS First Responder Administered Naloxone in a Statewide EMS System
Joshua Mastenbrook; James Markman; Tyler Koedam; William Fales, Western Michigan University School of Medicine

#67 Importance and Impact of HR4365: Protecting Patient Access to Emergency Medications Act of 2015 on Prehospital Controlled Substance Administration
Christie Fritz; Edward Ullman; David Schoenfeld, Beth Israel Deaconess Medical Center/ Harvard Medical School

GROUP 4: Outcomes/QI
#72 Additional Lives Saved by the Resuscitation Outcomes Consortium- Cardiac Arrest
James Menegazzi; Jessica Ng, University of Pittsburgh

#65 A Systematic Review of the Association between EMS Time Factors and Survival
ian Blanchard; Alka Patel; Dan Lone; Amy Couperthwaite; Dirk Chisholm; Dean Vergus; Diane Lorenzetti; Gerald Lazarenko; Eddy Lang; Christopher Doig; William Ghali, Alberta Health Services/University of Calgary

#36 Evaluating the Provision and Outcome of Dispatch-Assisted Cardiopulmonary Resuscitation Using the Cardiac Arrest Registry to Enhance Survival (CARES)
Manali Shah; Cherie Bartram; Kevin Irwin; Bryan McNally; Timothy Gallagher; Kimberly Vellano; Robert Swor, Oakland University William Beaumont School of Medicine

#70 Racial and Ethnic Differences in Outcomes After Out-of-Hospital Cardiac Arrest: Hispanics Fare Worse then Non-Hispanic Whites and Blacks
Nichole Bosson; Andrea Fang; Amy Kaji; Marianne Gausche-Hill; William French; David Shavelle; Joseph Thomas; James Niemann, LA County EMS Agency

#85 Predictors of Resuscitation Success Prior to EMS Arrival in Out-of-Hospital Cardiac Arrest Patients Treated with a Public Access AED
Annemarie Silver; Hidetada Fukushima; Jeffrey Gould; Kristopher Edgell; David Appleby; Taku Iawami; Margaret Mullins; Robyn McDannold; Bentley Bobrow, ZOLL Medical

#32 Post-Resuscitation Hyperoxia and Hypoxia are Associated with Increased Cardiac Arrest Mortality
Henry Wang; David Prince; Jon Rittenberger; Stephen Trzeciak; Jonathan Elmer; Nicholas Johnson; Brian Grunau; David Carlstrom; Ian Drennan; Peter Kudenchuk; Myron Weisfeldt; Michael Kurz; Matthew Hansen; Ahamed Idris; Tom Aufderheide; Denise Griffith; Jamie Jasti; Susanne May; Jim Christenson, University of Alabama at Birmingham

#43 Neurological Favorable Outcome Associated EMS Compliance with On-scene Resuscitation Time Protocol
Tae Han Kim; Ki Jeong Hong; Sang Do Shin; Gwan Jin Park; Eui Jung Lee; Young Sun Ro; Kyoung Jun Song; Joo Jeong, Seooul National University, Department of emergency medicine

#69 Relationship between Clinical Quality Improvement and Medical Direction in Emergency Medical Services
Michael Redlener; Patrick Olivieri; Kevin Munjal; George Loo; Michael Gunderson; Michael Levy; Jeffrey Rabrich; Sabina Braithwaite, Icahn School of Medicine at Mount Sinai, Mount Sinai St. Luke's/West Hospitals

#61 Effects of a Transit Strike on EMS Transports and Emergency Department Patient Volumes
Hans Bradshaw; Sarah Harris; Stewart Dandorf; Brett Hughes; Zachary Saxman; Matthew Berkman; Joshua Gaither, The University of Arizona

#92 The Effects of Hurricane Sandy on the Emergency Department and EMS System at Staten Island University Hospital South Campus
Eric Golike; Nicole Berwald; Jerel Chacko; Joshua Greenstein; Brahim Ardolic, Department of Emergency Medicine, Staten Island Univ. Hospital, Northwell Health

GROUP 5: Stroke/TBI
#74 A Dichotomized Cincinnati Prehospital Stroke Score Predicts Large Vessel Occlusions in Patients with Acute Ischemic Stroke
Christopher Richards; Eddie Markul; Katie Tataris; Laura Eggers; Leslee Stein-Spencer; Kenneth Pearlman; Joseph Weber; Jane Holl; Shyam Prabhakaran, Northwestern Feinberg SOM Dept Emer Med & Ctr for Healthcare Studies; Chicago EMS System

#75 911 Dispatch Initiated Stroke Assessment-How to Decrease Time to Treatment at Stroke Centers
C. J. Winckler; David Miramontes, MD, FACEP, NREMT; Craig Cooley, MD, FACEP, MPH, EMT-P; David Wampler, PhD, LP; Justin Pruitt, EMT-P; Valerie Frausto, Chief; David Peters, Lt; Jamal Said, Lt, UTHSCSA-OMD

#93 Prehospital Triage of Acute Ischemic Stroke Patients to an Intravenous tPA-Capable versus Endovascular-Capable Hospital
Justin Benoit; Pooja Khatri; Opeolu Adeoye; Joseph Broderick; Jason McMullan; Jan Scheitz; Achala Vagal; Mark Eckman, University of Cincinnati

#100 Time-Critical Diagnosis Care in Missouri: A Geospatial Analysis of Access to State-Designated Stroke Centers
Kurt Eifling; Hawnwan Moy, Washington University in St. Louis Division of Emergency Medicine

#107 Feasibility of Training and Use of the Rapid Arterial Occlusion Scale (RACE) by Ground Paramedics: Preliminary Data from Phase One of Protocol Implementation
Denisse Sequeira; Francis Guyette; Christian Martin-Gill, Department of Emergency Medicine, University of Pittsburgh

#112 Prehospital Time Intervals and Management of Ischemic Stroke Patients
Timmy Li; Jeremy Cushman; Manish Shah; Adam Kelly; David Rich; Courtney Jones, University of Rochester School of Medicine & Dentistry
#53 Characterization of Injury at the Minnesota State Fair Using Geospatial Information
Kari Haley; Bjorn Peterson; Aaron Burnett, Regions Hospital EMS

#79 Association between Blood Platelet Count during Resuscitation and Neurological Recovery in Out-of-hospital Cardiac Arrest
E Kyung Shin; Sang Do Shin; Young Sun Ro; Ki Ok Ahn; Kyoung Jun Song, Seoul National University College of Medicine

#33 Prehospital Use of Nasal Cannula End-Tidal CO2 Monitoring in Non-Intubated Major Traumatic Brain Injury Patients
Octavio Perez; Daniel Spaite; Eric Helfenbein; Bruce Barnhart; Saeed Babaeizadeh; Chengcheng Hu; Vatsal Chikani; Joshua Gaither; Kurt Denninghoff; Samuel Keim; Chad Viscusi; Duane Sherrill; Amber Rice; Bentley Bobrow, University of Arizona

#54 PREDICTORS OF EMERGENCY MEDICAL SERVICES USAGE BY DIALYSIS PATIENTS
Judah Goldstein; ‘Primary Author’ John Bartolacci; Bryce Kiberd; David Clark; Karthik Tennankore, Emergency Health Services

GROUP 6: Fatigue/Safety/Termination
#87 Prehospital EMS Provider Perceptions of Errors and Safety
Rebecca Cash; Remle Crowe; Severo Rodriguez; Roger Levine; Lee Varner; Tina Hilmas; Alex Christgen; Ashish Panchal, The National Registry of EMTs

#73 Paramedic Safety Culture across Eastern Ontario
Julie Sinclair; Penny Price; Andrew Reed; Michael Austin; Edmund Kwok, Regional Paramedic Program for Eastern Ontario

#42 Fatigue, shiftwork, and safety outcomes in Canadian paramedics
Elizabeth Donnelly; Paul Bradford; Cathie Hedges; Matthew Davis; Doug Socha; Peter Morassutti, University of Windsor

#125 What influences safety in EMS? Investigating stress, fatigue, and safety outcomes
Elizabeth Donnelly; Paul Bradford; Cathie Hedges; Matthew Davis; Doug Socha; Peter Morassutti, University of Windsor

#86 Termination or Withholding of Resuscitation in Traumatic Cardiac Arrest in Statewide Treatment Protocols
Christie Fritz; Edward Ullman; David Schoenfeld, Beth Israel Deaconess Medical Center/ Harvard Medical School

#124 Structure of Termination of Resuscitation Patches
Don Eby; Jenn Robson; Melanie Columbus, Southwest Ontario Regional Paramedic Base Hospital Program, London, Ontario

#128 Emergency Medical Services Utilization and Interventions in Palliative and Hospice Patients
Rebecca Goett; Dr. Gregory Sugalski; Dr. Erika Nuber; Dr. Rasheed Sanyaolu; Lana Shaker; Dr. Sangeeta Lamba, Rutgers New Jersey Medical School
#108 Documentation of Capacity Assessment in 911 Patients Who Refuse EMS Transport
Veer Vithalani; Sabrina Vlk; Steven Davis; Neal Richmond, Emergency Physicians Advisory Board, MedStar Mobile Healthcare

#38 Impact of EMS Alerts and Parallel Hospital Workflow on Door-to-Treatment Times in ELVO: The Memorial Stroke Experience
Peter Antevy; Brijesh Mehta; Raul Nogueira; Randy Katz; Ashutosh Jadhav; Thabele Leslie-Mazwi; Ronil Chandra; Hoang Duong; Mark Ellis; Timothy Roche; Albert Yoo, Memorial Healthcare System

#63 CLASSIFICATION OF BYSTANDER CPR USING 911-CALL REVIEW VERSUS FIELD REPORT
Stephen Sanko; Huihui Zhang; Christianne Lane; Abe Flinder; Pavan Reddy; Luci Cassella; Sumeet Sidhu; Jay Balagna; Marc Eckstein, Dept of Emergency Medicine, Keck School of Medicine, USC; Los Angeles Fire Department

GROUP 7: Teamwork/Simulation/Pain
#52 Barriers and Facilitators of Teamwork in Emergency Medical Services
William Fernandez; Justin Benzer; Gouri Gupte; Martin Charns; James Burgess, University of Texas Health Science Center at Houston

#56 The Relation Between Team Model of EMS Responding Tiers and Outcomes of Out-of-hospital Cardiac Arrest (OHCA)
Yao-Chang Wang; Yen-Bin Chen; Chien-Hua Huang; Bin-Chou Lee; Tzong-Luen Wang; Matthew Huei-Ming Ma; Yu-Wen Chen; Patrick Chow-In Ko, Taipei City Fire Department

#78 60 Seconds to Survival: A Disaster Triage Video Game And Improved Triage Accuracy For Prehospital Care Providers
Mark Cicero; Marc Auerbach; Travis Whitfill; Michael Redlener; Grace Arteaga; Maricar Diaz; Kevin Munjal; Chris Kennedy; Daniel Scherzer; Manu Madhok; Angela Bowen; Barbara Walsh; Scott Goldberg; David Kessler; Nadine Symons; Ryan Barnicle; Marc Auerbach, Yale School of Medicine

#109 Use of Interactive Multimedia Instructional Design in EMT-Basic Training Education and its Association with Knowledge Retention
Jason McMullan; Jeffery Hill; Kay Vonderschmidt; Kimberly Hart; Christopher Lindsell, University of Cincinnati

#48 An Evaluation of Navy En Route Care Training Using a High-Fidelity Medical Simulation Scenario of Interfacility Patient Transport
Benjamin Walrath; John Alex; Christine DeForest; Lauren Reeves; Crystal Perez; Alejandra Mora; Gerard DeMers; Dominique Selby; Virginia Blackman, US Navy

#114 The Challenge of "Not" in NEMSIS
Daniel Willner; Edward Ullman; David Schoenfeld, Beth Israel Deaconess Medical Center / Harvard Medical School

#88 Failure to Communicate: A Prospective Observational Study of Patient Handoff Following a Simulated inter-facility En Route Care Mission
Benjamin Walrath; John Alex; Christine DeForest; Lauren Reeves; Crystal Perez; Alejandra Mora; Virginia Blackman, United States Navy
#127 Utilization of ALS Level of Care by Automatic ALS Activation and Dispatch Code
Martha Masters; Jon Schnepf; Brian Jennett; Michael Lohmeier, University of Wisconsin Hospital and Clinics

#57 The Use of Fentanyl in Pediatric Trauma Patients Post Implementation of the Handtevy Field Guide
Lara Rappaport; David Edwards; Kevin McVaney; Aaron Eberhardt; Whitney Barrett; Kathleen Adelgais, Denver Health Hospital, University of Colorado

#119 Prehospital Pain Management: Disparity by Age and Ethnicity
Peter Taillac; Hilary Hewes; Clay Mann; Mengtao Dai; Tanya Baca, Clinical Professor, University of Utah School of Medicine

GROUP 8: CPR Delivery/Intubation
#59 New Insights into CPR Optimization through a Flow per Compression Analysis of Chest Compression Generated Blood Flow
Joshua Lampe; Tai Yin; George Bratinov; Wes Shoap; Yuxi Lin; Christopher Kaufman; Lance Becker, Northwell Health

#47 Decline in Chest Compression Velocity Over Time Is Related to Out-of-Hospital Cardiac Arrest Patient Outcome
Sam Berger; Samuel Berger; John Sutter; Chengcheng Hu; Daniel Spaite; Robyn McDannold; Margaret Mullins, University of Arizona

#101 Active Intrathoracic Pressure Regulation Improves Mean Arterial Pressure during Cardiopulmonary Resuscitation
Nathan Burkhart; William Fales; Charles Lick; Kevin Franklin; Anja Metzger; Keith Lurie; Nicolas Segal, ZOLL Medical

#116 Changes in Chest Compliance over Time as Measured through Changes in Anterior Posterior Chest Height during Cardiopulmonary Resuscitation in Human Cadavers
Nicolas Segal; Aaron Robinson; Paul Berger; Michael Lick; Andrew Ashton; Angela McArthur; Anja Metzger, Department of Emergency Medicine, University of Minnesota Medical School

#126 LUCAS Mechanical Compression Device Associated with Poorer Neurologic Outcomes in Out of Hospital Cardiac Arrest
Ryan Newberry; Ted Redman, M.D.; Elliot Ross, M.D.; Rachel Ely, D.O.; David Wampler, Ph.D; David Miramontes, M.D, SAUSHEC/UTHSCA EMS and Disaster Medicine Fellowship

#49 Rigid cervical collar does not affect cerebral blood flow index, but positioning does
David Wampler; Brian Eastridge; Preston Love; Ronald Stewart; Rena Summers; Brandi Wright; Ali Seifi, The University of Texas Health Science Center at San Antonio

#58 Does the use of Video Laryngoscopy Improve First Time Success Rates or Overall Success Rates in HEMS?
Ralph Frascone; Joseph Pasquarella; Christopher Delp; Cheryl Pasquarella; Sandi Wewerka, Regions Hospital EMS
#94 Direct Vs. Indirect Laryngoscopy for Prehospital Intubation: A Systematic Review and Meta-analysis
Paul Savino; Scott Reichelderfer; Mary Mercer; Karl Sporer, University of California, San Francisco

#97 Using Delayed Sequence Intubation To Prevent Peri-Intubation Hypoxia
Jeffrey Jarvis; John Gonzales; Danny Johns; Christina Gutierrez, Williamson County EMS

#77 Assessment of Pain Management During Transport of Intubated Patients in a Prehospital Setting
Ayesha Zia; Russell MacDonald; Sean Moore; James Ducharme; Christian Vaillancourt, University of Ottawa, Department of Emergency Medicine

GROUP 9: Para/Telemedicine

#62 Reducing Hospital Re-Admissions Using a Community Paramedic Program
Howard Klausner; Brandon Young; Thomas McKeown; Andrew Brown; Steven Rockoff, Henry Ford Health System

#45 Advanced Emergency Telemedicine Service Reduces Unnecessary Emergency Medical Service Transports And Emergency Department Visits From Skilled Nursing Facilities.
Jonathan Fisher; Timothy Peck; Katie Davis; XiaSong MU; Claritza Rios; Michael Hartman; Erika Green; Andrew Moczula; Dara Kass; Kevin Biese, Maricopa Medical Center - University of Arizona College of Medicine Phoenix

#81 Impact of EMS direct referral to community care on services received
Kristine Van Aarsen; Adam Dukelow; Mike Lewell; Steve Pancino; Jay Loosley, Division of Emergency Medicine, London Health Science Centre

#102 Paramedic-physician telecommunications in a large regional prehospital system.
Daren Lin; Michelle Welsford; Erich Hanel, Centre for Paramedic Education and Research, Hamilton, Ontario

#104 State Regulation Of Community Paramedicine Programs: A National Analysis
Melody Glenn; Olivia Zoph; Kim Weidenaar, JD; Leila Barraza, JD, MPH; Jonathan Fisher, MD, MPH, University of California San Francisco

#111 TELECOMMUNICATOR-ASSISTED CPR FOR CALLERS WITH LIMITED-ENGLISH PROFICIENCY
Stephen Sanko; Siyu Feng; Christianne Lane; Abe Flinder; Pavan Reddy; Luci Cassella; Sumeet Sidhu; Jay Balagna; Michael Cooper; Angelica Loza-Gomez; Marc Eckstein, Dept of Emergency Medicine, Keck School of Medicine of USC; Los Angeles Fire Department

#83 Barriers to Dispatch-Assisted Cardiopulmonary Resuscitation Instruction
Manali Shah; Cherie Bartram; Kevin Irwin; Bryan McNally; Timothy Gallagher; Kimberly Vellano; Robert Swor, Oakland University William Beaumont School of Medicine

#117 Paramedic and Nurse-Staffed Rural Collaborative Emergency Centres: The Rate of Relapse for Discharged Patients
Judah Goldstein; 'Primary Author' Alix Carter; Jolene Cook; Meghan Beals; Andrew Travers; Jan Jensen; Thomas Dobson; Steven Carrigan; Peter VanBerkel, EHS
#82 Improvement in real-time ECG transmission from field to hospital with weekly test transmissions
Nicole D'Arcy; Nichole Bosson; Amy Kaji; William French; Quang Bui; Joseph Thomas; Yvonne Elizarraraz; Natalia Gonzalez; Jose Garcia; James Niemann, Harbor-UCLA Medical Center

#99 Descriptive Statistics of PulsePoint App Activations in San Diego City 2014-2016
Yuko Nakajima; James Dunford; Rick Tallman, UC San Diego

GROUP 10: Education/Feedback
#37 Paramedic Program Accreditation and Student Performance on the National Paramedic Certification Examination
Severo Rodriguez; Remle Crowe; Rebecca Cash; Ashish Panchal, The National Registry of EMTs

#96 EMS Education Program Quality Predicts National Certification Examination Pass Rates
Remle Crowe; Rebecca Cash; Severo Rodriguez; Ashish Panchal, The National Registry of EMTs

#98 Student Ability Estimates in High and Low-Performing EMS Education Programs
Remle Crowe; Rebecca Cash; Severo Rodriguez; Ashish Panchal, The National Registry of EMTs

#113 Demographics of ACGME Accredited EMS Fellowship Programs
Juan March; Joanna Adams; Roberto Portela; John McManus; Stephen Taylor, East Carolina University, School of Medicine, Dept of EM, Division of EMS

#129 Leaving and Returning to EMS: Why Providers Leave and Characteristics Associated With a Desire to Return
Riddhima Agarwal; Rebecca Cash; Remle Crowe; Severo Rodriguez; Ashish Panchal, The Ohio State University College of Medicine

#40 Basic Life Support versus Advanced Life Support: Comparison of Neurological Outcome in Out of Hospital Cardiac Arrest based on Initial Rhythms
Patrick Medado; Syed Ayaz; Saikat Bhuiyan; Todd Marabanian; Mitchell Hoyer; Valerie Mika; Brian O’Neil; Robert Dunne, Department of Emergency Medicine, Wayne State University

#31 Accredited Paramedic Program Graduates Have Higher Student Ability Estimates
Severo Rodriguez; Remle Crowe; Rebecca Cash; Ashish Panchal, The National Registry of EMTs

#46 Disparities in Medical Care Feedback in Emergency Medical Services
Rebecca Cash; Remle Crowe; Severo Rodriguez; Roger Levine; Ashish Panchal, The National Registry of EMTs

#80 Factors Associated with Receiving Feedback in the Prehospital Setting
Rebecca Cash; Remle Crowe; Severo Rodriguez; Roger Levine; Ashish Panchal, The National Registry of EMTs

#71 Implementation of an educational program to improve the cardiac arrest diagnostic accuracy of ambulance communication officers: a concurrent control before-after study
Christian Vaillancourt; Ann Kasaboski; Manya Charette; Lisa Calder; Loree Boyle; Shunichiro Nakao; Denis Crete; Molly Kline; Robin Souchuk; Niels Kristensen; George Wells; Ian Stiell, Department of Emergency Medicine, University of Ottawa

POSTER ABSTRACTS (IN GROUP ORDER)
Poster Session 2 (#131-230): 4:00 p.m. – 5:15 p.m. Wednesday, January 25

GROUP 1: Helicopter/Triage/Trauma
#158 Use of the LUCAS-2 Device in Helicopter EMS: Is it safe?
Ralph Frascone; William Heegaard; Cheryl Pasquarella; Joseph Pasquarella; Adam Mayer; Sandi Wewerka, Regions Hospital

#188 Determining a Need for Point of Care Ultrasound (PoCUS) in Helicopter EMS
Tom Grawey; Tim Lenz; Mary Beth Phelan, Medical College of Wisconsin

#207 Factors Contributing to Early Discharge of Air Medical Scene Transports from a Level I Trauma Center
Howard Werman; Hiroko Miyagi; David Evans, MedFlight of Ohio, The Ohio State University, Department of Emergency Medicine

#176 Influence of Mechanisms of Injury and Signs of Head Injury on Field Triage of Injured Older Adults
Courtney Jones; Timmy Li; Jeremy Cushman; Martina Anto-Ocrah; Nancy Wood; Heather Lenhardt; Molly McCann; Suzanne Gillespie; Julius Cheng; Ann Dozier; Manish Shah, University of Rochester, Departments of Emergency Medicine and Public Health Sciences

#178 Presence of Undertriage and Overtriage in Simple Triage and Rapid Treatment
Rick Hong; John Hoff; Gerard Carroll, Cooper Medical School of Rowan University

#225 SALT Triage Training for School Personnel
Daniel Celik; Francis Mencel; Scott Wilber; Jennifer Frey; Lisa Kurland; Michel Debacker, Summa Health System, Akron, Ohio

#170 The Use of North Carolina Trauma Triage Destination Plans in the Prehospital Care of Geriatric Trauma Patients
Matthew Meyers; Julianne Cyr, MPH; Trent Wei; Fran Shofer, PhD; Jane Brice, MD, MPH, University of North Carolina at Chapel Hill School of Medicine

#203 Interactive Effect of Hypoxia across Shock at the Scene on Hospital Mortality and Disability in Severe Trauma
MINWOO KIM; Sang Do Shin; Eui Jung Lee; Kyung Won Lee; Jeong Joo; Ki Jeong Hong; Yu Jin Kim; Kyoung Jun Song; Ki Ok Ahn; Young Sun Ro, Department of Emergency Medicine, Seoul National University College of Medicine

#197 DEFINING THE VALUE OF PULSE CHARACTER ASSESSMENT AFTER INJURY BY PRE-HOSPITAL PROVIDERS
Carson Petrash; Preston Love; Chetan Kharod; Scott Bolleter; David Wampler; Brian Eastridge, University of Texas Health Science Center at San Antonio
#172 Factors Associated with Emergency Medical Services Utilization among Road Traffic Injuries during Thai long Holiday Periods: A Nationwide Registry
Sattha Riyapan; Phanthanee Thitichai; Anurut Somton; Wansiri Chaisirin; Tanyaporn Nakornchai; Tipa Chakorn, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand

GROUP 2: Pediatrics

#145 Pediatric Prehospital Medication Dosing Errors: A National Survey of Paramedics
John Hoyle; Remle Crowe; Melissa Bentley; Gerald Beltran; Bill Fales, Western Michigan University Homer Stryker, MD School of Medicine

#147 Frequency and Etiology of Pediatric Outpatient Emergencies
Matthew Yuknis; Elizabeth Weinstein; Hannah Maxey; Brian Benneyworth, Indiana University School of Medicine

#154 PEDIATRIC AMBULANCE PATIENT TRANSFER RATES: A RETROSPECTIVE OBSERVATIONAL STUDY
Judah Goldstein; 'Primary Author' Yves Leroux; Jolene Cook; Katrina Hurley; Alix Carter, Emergency Health Services

#159 Pediatric Destination Decision Making among Prehospital Personnel in Maryland: A Qualitative Study
Jennifer Anders; Ellen Schenk; Cynthia Wright-Johnson, Johns Hopkins University, Maryland Institute of Emergency Medical Services Systems

#161 Pediatric palliative care in Nova Scotia: Use of an out of hospital special patient program administered by paramedics
Madeleine Böhrer; Alix Carter; Marie-Claude Grégoire, Dalhousie University

#168 A foundation for developing new non-trauma pediatric direct transport protocols
Jennifer Fishe; Bruce Klein; Kevin Psoter; Jennifer Anders, Johns Hopkins University

#180 Prehospital procedures and medications delivered to pediatric emergency patients throughout North Carolina in 2015
Sanniya Nanda; Michael Mastropole; Sean Kaye; Jane Brice; James Winslow; Antonio Fernandez, Department of Emergency Medicine, University of North Carolina – Chapel Hill

#189 A Descriptive Analysis of Pediatric Prehospital Refusal of Medical Assistance (RMA) within a Single Service Provider System.
Matthew Sztajnkrycer; (Position 1 in author list) Felicia Mix; (Position 2 in author list) Lucas Myers; (Position 3) Anuradha Luke, Department of Emergency Medicine, Mayo Clinic

#191 Pediatric Refusal of Medical Assistance: Association With Suspected Abuse or Neglect.
Matthew Sztajnkrycer; (Position 1 in author list) Felicia Mix; (Position 2 in author list) Lucas Myers; (Position 3) Anuradha Luke, Department of Emergency Medicine, Mayo Clinic

#194 EMS DESTINATION DECISION MAKING FOR PEDIATRIC PATIENTS
Igli Arapi; E. Brooke Lerner; Brent Logan; Clare Guse; Lorin Browne; Jonathan Studnek; David Brousseau, Medical College of Wisconsin
GROUP 3: Sepsis/STEMI/Narcan

#198 Recognition and treatment of sepsis in a single provider, 2-tiered EMS system
Saman Kashani; Angelica Loza-Gomez, USC Department of Emergency Medicine

#216 A Comparative Analysis of qSOFA, SIRS and Early Warning Scores Criteria to Identify Sepsis in the Prehospital Setting
Saeed AlQahtani; Perry Menzies; Blair Bigham; Michelle Welsford, Division of Emergency Medicine, McMaster University, Hamilton, ON, Canada

#221 qSOFA score in the prehospital setting
fabrice dami; Selin Tusgul, Emergency Department, Lausanne University Hospital, Lausanne, Switzerland

#142 Regional “Call 911” Emergency Department Protocol to Reduce Transfer Delay of ST-Elevation Myocardial Infarction Patients
Nichole Bosson; Terrence Baruch; William French; Andrea Fang; Amy Kaji; Marianne Gausche-Hill; Alisa Rock; David Shavelle; Joseph Thomas; James Niemann, Los Angeles County EMS Agency

#164 Safety and Clinically Important Events in PCP-Initiated STEMI Bypass in Ottawa: A Health Record Review
Simeon Mitchell; Richard Dionne; Justin Maloney; Michael Austin; Garrick Mok; Julie Sinclair; Catherine Cox; Michel LeMay; Christian Vaillancourt, Department of Emergency Medicine, University of Ottawa

#175 Paramedic 12-lead ECG and the Frequency of STEMI in Patients With and Without Chest Pain
Jason Cheng; Michelle Welsford, Department of Medicine, The University of Western Ontario, London, Ontario

#218 Utility and Efficacy of a State Mandated Naloxone Program for MFR/EMR and BLS Units in an All ALS System Including a Cost-Benefit Analysis
Luke Bowen; Antonio Bonfiglio, MD, Macomb County EMS Medical Control Authority

#190 Repeat Naloxone Dosing in Patients with Suspected Opioid Overdose
Ronald Klebacher; Matthew Harris; Michael Carr; Ronald Klebacher; Larissa Dudley; Bilgehan Onogul; Ammunddeep Tagore; Eric Wasserman; Susmith Koneru; Robert Bauter; Mark Merlin, Newark Beth Israel Medical Center

#151 A Comparison of Naloxone Utilization and Opiate Overdoses in a Large EMS System
Jefferson Williams; Taibah Alabdralbinalabi; Joseph Grover; Michael Bachman; Kevin White; Jose Cabanas, Wake County Department of EMS

#135 Evaluation of Naloxone Use Compared to Protocol in a Large Ground And Air-Based EMS Service
Alex Trembley; John Lyng; Erin Engelbert; Kirby Lundy; Marc Conterato, North Memorial Ambulance & Air Care

GROUP 4: Outcomes/QI/Respiratory

#183 Association of number of prehospital CPR team and survival after out-of-hospital cardiac arrest in Korea: A Nationwide Observational Study
The role of bystanders in prompt CPR and related outcomes after out-of-hospital cardiac arrest
Gwan Jin Park; Kyoung Jun Song; Ju Jeong; Ki Jeong Hong; Sang Do Shin, Seoul National University Hospital

Association of Hospital Characteristics with Outcomes of Patients Resuscitated After Out of Hospital Cardiac Arrest
Brian Malley; Kelly Sawyer, MD, MS; Robert Swor, DO, Oakland University William Beaumont School of Medicine

Prehospital Quality Improvement and Education in Care for PARCA Patients
Tung-Lin Yuan; Mark Pinchalk; Ronald Roth; Paul Paris, Des Moines University College of Osteopathic Medicine

Relationship between EMS Agency Size and Quality Improvement: A National Survey
Patrick Olivieri; Michael Redlener; Kevin Munjal; George Loo; Michael Gunderson; Michael Levy; Jeffrey Rabrich; Sabina Braithwaite, Mount Sinai St. Luke's

Adequacy of EMS systems of care protocols for adults with OHCA, STEMI & Stroke in rural and non-rural counties in Oregon: a structured review
Paul Rostykus, Oregon Health & Science University, Portland, OR USA

Should BLS carry and administer albuterol? A comparison of albuterol treatment and time to administration by BLS and ALS providers
Patrick Matthews; Patrick Matthews; Sean Morgan; Barbara Davis; Mia Papas; Ross Megargel, Christiana Care Health System

Respiratory Distress: Current Evidence-Based Recommendations for Prehospital Care
Melody Glenn; Bennett Lee; Karl Sporer; Dipesh Patel, University of California, San Francisco

An Evaluation of Adult/Pediatric and Infant/Neonate End-Tidal CO2 Sampling Line Utilization in Emergency Medical Services
Ryan LaGrange; Stephen Taylor; Matthew Chovaz, Brody School of Medicine, East Carolina University

Impact of an On-Site Mass Gathering Alcohol Sobering Facility on Emergency Medical Services and Emergency Department Resource Utilization
Franco Castro-Marin; Joshua Gaither; Steven Maher; Tomas Navarro; Albert Razo; Chris Marcuzzo; John Whitney; Andrew McDonald; Russell Chick, HonorHealth, Emergency Department

GROUP 5: Stroke/TBI/Spine/MCI
RACE to the Most Appropriate Stroke Center: Can Prehospital personnel appropriately use RACE scores to identify Large Vessel Occlusion (LVO) Strokes
Christine Van Dillen; Desmond Fitzpatrick; Dustin Anderson; Carmelle Elie; Jason Jones; Charles Hwang; Ben Abo, University of Florida

Clinical Feedback from Prehospital Use of a Novel Traumatic Brain Injury Dashboard
Annemarie Silver; Tyler Harrington; Justin Carroll, ZOLL Medical

#144 Analysis of Run Sheets of EMS Serving a Metropolitan Comprehensive Stroke Center
Haitham Hussein; Bhavani Kashyap; Lauren Erickson; Anna Forsberg; Aaron Burnett; Stephen Stanfield; Sandi Wewerka; Alexia Terwilliger; Leah Hanson, Regions Hospital Comprehensive Stroke Center, St Paul, MN

#132 A New Era in Spinal Immobilization?
Brian Hehl; Beth Langley RN, PhD; Erin Wirthes, DO; Matt Wells, MD; Tripp Winslow, MD, Cape Fear Valley Health Systems

#185 Glass Intact Assures Safe Cervical Spine Protocol
Daniel Angeles; Mark Sochor, University of Virginia

#209 Comparing the Criteria Outcomes Tool to Various Mass Casualty Incident Triage Algorithms in Children < 15 Years of Age Using the National Trauma Database
Joelle Donofrio; Genevieve Santillanes; Keith Cross; Mark Cicero; Amy Kaji, University of California San Diego

#201 Dispatch chief complaint may identify prehospital patients most in need of EMS
Scott Alter; Jonathan Studnek; Douglas Swanson, Florida Atlantic University

#155 Mass Gathering Medical Care: A State by State Comparison
Dylan Kellogg; Michael Millin, Arnot Ogden Medical Center

#148 EMT Determination of Patient Suitability for Diversion to Urgent Care
Zachary Athing; Anthony Fidacaro; Hely Shah; Susana Collazo; Richard Pescatore; Katelyn Levy; Gerard Carroll, Cooper Medical School of Rowan University

#136 Medical Director Feedback and Crew Education Sufficient to Decrease the Rate of Lights and Sirens Transport to the Hospital
Jenna White; Darren Braude, University of New Mexico

GROUP 6: Fatigue/Safety/Glycemia
#220 A Survey Of The Perceptions Of Violence And Safety Among EMS Pre-Hospital Providers
Bryarlin Johnson; Marc Conterato, MD, FACEP; Alexander Trembley, NREMT-P; John Lyng, MD, FACEP, North Memorial Ambulance Service

#228 Poor neighborhoods have slower EMS response and transport times
Delphine Huang; Matt Niedzwiecki; Mary Mercer; Renee Hsia, University of California San Francisco, Department of Emergency Medicine

#166 Safety and Compliance with an EMS Direct Transport Protocol to a Withdrawal Management Facility vs Emergency Department
Verdah Bismah; Verdah Bismah; Dr. Jason Prpic MD, CCFP (EM); Sylvie Michaud; Nicole Sykes; Paul Myre, Health Sciences North Centre for Prehospital Care, Queen's University
#167 Safety and Compliance with an EMS Direct Transport Protocol to a Mental Health Facility vs Emergency Department
Verdah Bismah; Verdah Bismah; Dr. Jason Prpic MD, CCFP (EM); Sylvie Michaud; Nicole Sykes; Paul Myre, Health Sciences North Centre for Prehospital Care, Queen's University

#182 Safety Events in High Risk Prehospital Neonatal Calls: A Retrospective Chart Review
Rebecca Duby; Matt Hansen; Garth Meckler; Barbara Skarica; William Lambert; Jeanne-Marie Guise, Department of Emergency Medicine, Oregon Health & Science University

#165 Does the reason for calling 911 affect patients’ confidence in paramedic recommendations?
Tracy Nguyen; Momin Masroor; Shira Schlesinger; Kristi Koenig; Carl Schultz, University of California, Irvine

#152 Medication Safety in EMS: Approaching a Validated & Reliable Method of Verification to Reduce Errors
Paul Misasi; Joseph Keebler, Sedgwick County EMS, Wichita State University

#186 An exploration of factors used by EMS medical directors in the United States in determining hypertonic glucose concentration for treatment of hypoglycemia
Paul Rostykus; Jarrard Hugh; Gary Heigel; Camille Gonzalez; Blake Pattee; Sophie Tomczyk; Mohamud Daya, Oregon Health & Science University, Portland, OR USA

#204 Is the Presence of Hypoglycemia in Pre-hospital Seizure Patients a Myth?
Don Eby; Jenn Robson; Melanie Columbus, Southwest Ontario Regional Paramedic Base Hospital Program, London, Ontario

#229 Pre-hospital Hypoglycemia Treatment: An NEMSIS Database Review
Joe Kofoed; Ronna Miller; Carla Cash; Kathy Rinnert, University of Texas Southwestern

GROUP 7: Simulation/Communication/Pain
#211 High Fidelity Hybrid Simulation Model Adapted from Military Experience Supports Integrated Training of Civilian Critical Care Transport Providers
Kristine Mulier; Seth Witthuhn; Bonnie Boucher; Jason Grafft; Jon Chaika; Rob Pearson; Dan Johnson, University of Minnesota

#193 An Assessment of Communication & Transferring Data Verbally Between the Paramedics & Receiving Facility (Physicians & Nurses) in Trauma Patients at a Level I Trauma Center
Abdulaziz Alali; Paul Engels Engels; Angela Coates; Michelle Welsford, KFSH&RC, alfaisal university CEPR

#205 Communication Between Emergency Medical Services (EMS) and Hospitals for Medical Surge in Pediatric Mass Casualty Incidents: An Evaluation of Connecticut Hospitals
Klevi Golloshi; Marcie Gawel; Pina Violano; Marc Auerbach; Mark Cicero, Yale School of Medicine

#156 Implementation of a Medical Amnesty Policy at an Urban University with a Collegiate-Based Emergency Medical Services Agency
Brian Monahan; Jose Nable; Vincent WinklerPrins, Georgetown University School of Medicine
PREHOSPITAL KETAMINE FOR CHEMICAL RESTRAINT OF ACUTE VIOLENT / COMBATIVE PATIENTS: “TREATING THE UNTREATABLE FOR 5 YEARS”
Robert Dickson; Guy Gleisberg; Jordan Anderson; Jay Kovar, Baylor College of Medicine / EMS Collaborative Research Group

Administration of Prehospital Pain Medication Compared to Eventual Need among Subjects of a Randomized Controlled Trial
Lauren Erickson; Sandi Wewerka; Aaron Burnett, HealthPartners Institute

Reduced-dose Ketamine For Emergent Chemical Restraint
Bjorn Peterson; Kari Haley; Kevin Torkelson; Aaron Burnett, Regions Hospital EMS

Paramedics’ Perspectives on Intramuscular Ketamine Protocol for Excited Delirium
Monique Lloyd; Whitney Barrett; Aaron Eberhardt; Kevin McVaney; Lara Rappaport, Denver Health Medical Center

KETAMINE FOR ACUTE PAIN: ONE EMS SYSTEMS FIVE-YEAR EXPERIENCE
Robert Dickson; Guy Gleisberg; Jordan Anderson; Wesley Meyer; Jared Cosper, Baylor College of Medicine / EMS Collaborative Research Group

A descriptive analysis of prehospital midazolam as a chemical restraint in combative patients
Lauren Leggatt; Matthew Davis; Kristine Van Aarsen; Paul Bradford; Pete Morassutti; Mason Leschysna, Division of Emergency Medicine, London Health Sciences Centre

GROUP 8: CPR Delivery/Intubation
Does metronome-guided cardiopulmonary resuscitation improve the quality of bystander chest compression
Thamir Alsayed; Faisal Katbi, University of Dammam- King Fahd Hospital of the University

Metronome-Assisted Layperson-Caller CPR: A Preliminary Study
Greg Scott; Jeff Clawson; Isabel Gardett; Tracey Barron; Gigi Marshall; Nathan Williams; Brett Patterson; Christopher Olola, International Academies of Emergency Dispatch

A descriptive analysis of prehospital refractory ventricular fibrillation
Andrew Schappert; Brandon Chau; Aaron Leung; Kristine VanAarsen; Matthew Davis, Southwest Ontario Regional Base Hospital Program, London Health Sciences Centre

Pre-hospital Recurrent Ventricular Fibrillation Cardiac Arrests Treated with Beta-Adrenergic blockers.
Damian Liebhardt, UT Health San Antonio

Intubation of prehospital patients with curved laryngoscope blade is more successful than with straight blade
Scott Alter; Lisa Clayton; Brian Walsh, Florida Atlantic University

Success rate of prehospital LMA placement after failed intubation attempts
Lisa Clayton; Scott Alter; Brian Walsh; Richard Shih, Florida Atlantic University
A Comparison of Video Laryngoscopy to Standard Laryngoscopy in Experienced Paramedics
Bryan Bledsoe; Darren Mahoney, University of Nevada, Reno School of Medicine

A Retrospective Comparison of the King Laryngeal Tube and iGel Airways in Out-of-Hospital Cardiac Arrest – Initial Experience in a Single EMS System
Kevin Patel; Tyler Vaughn; Colleen MacCallum; William Fales, Western Michigan University Homer Stryker MD School of Medicine

Prehospital Rapid Sequence Airway: a series of 57 cases.
Sean O’Brien; Darren Braude; Mike Torres, University of New Mexico

Defibrillation at 200 Joules: A Second Look
Matthew Harris; Larissa Dudley; Ronald Klebacher; Ammundeep Tagore; Navin Apriyaprakai; Eric Wasserman; Robert Bauter; Mark Merlin, Newark Beth Israel Medical Center

IMPACT OF A NEW MEDICAL DISPATCH SYSTEM ON TELECOMMUNICATOR-ASSISTED CPR
Stephen Sanko; Christianne Lane; Abe Flinder; Pavan Reddy; Saman Kashani; Luci Cassella; Sumeet Sidhu; Jay Balagna; Alex Sapin; Marc Eckstein, Keck School of Medicine of the University of Southern California

Estimating the proportion of patients that could be safely treated and released on scene via a “virtual ED” video link with an emergency physician
Paul Hoogeveen; Garry Ross; Qamar Amin; Linda Turner, Sunnybrook Centre for Prehospital Medicine

Telecommunicator Breathing Assessment Techniques in Out-of-Hospital Cardiac Arrest
Blake Langlais; John Sutter; Katarina Bohm; Micah Panczyk; Chengcheng Hu; Daniel Spaite; Bentley Bobrow, Bureau of EMS & Trauma System, Arizona Department of Health Services

Mobile Integrated Healthcare in an Acutely Ill Medicare Cohort – A Descriptive Study
Peter Antevy; Hannah Goldman, Memorial Healthcare System

Evaluation of Physician and Paramedic Perspectives on the Mount Sinai Community Paramedicine Program
Deepa Chellappa; Linda DeCherrie; Ramiro Jervis; Cyndi Gonzalez; Luisa Ortiz; Kevin Munjal, Icahn School of Medicine at Mt. Sinai

“Say Again…I Don’t Understand You” - Problems in Paramedic-Physician Telecommunication
Don Eby; Jenn Robson; Melanie Columbus, Southwest Ontario Regional Paramedic Base Hospital Program, London, Ontario

A Novel Prehospital Cardiac Arrest Text-Message Alert System for Emergency Medicine Residents
Ian Buchanan; Hill Stoecklein; Megan Fix; Margaret Carlson; Scott Youngquist, University of Utah Division of Emergency Medicine

Implementation of a Nurse Practitioner Response Unit in an Urban EMS System
Saman Kashani; Ito Terrance; Aaron Guggenheim; Stephen Sanko; Sumeet Sidhu; Jay Balagna; Jordan Green; Chris Wong; Marc Eckstein, USC Department of Emergency Medicine
#146 Reduction of Bystander Time-to-Chest Compressions Using a Dispatcher-Guided CPR Algorithm.
Marc Conterato; Jan Althoff, NCEMD; Alexander Trembley, BS, NRP; John Lyng MD, FACEP, North Memorial Ambulance Service

#153 A FRAILTY INDEX DERIVED FROM A PARAMEDIC RISK ASSESSMENT: THE PARAMEDICS ASSESSING ELDERS AT RISK FOR INDEPENDENCE LOSS (PERIL-FI)
Judah Goldstein; Michael Nolan; Kenneth Rockwood; Ale Kiss; Jacques Lee, Emergency Health Services

GROUP 10: Education/Feedback/Misc.
#171 A Novel Emergency Medicine Resident Training Program for On-line Medical Control
Joan Noelker; Michael Galante; Dixie Fisher; SueLin Hilbert; Stephen Tomko, Washington University in St. Louis Division of Emergency Medicine

#222 Creative Signals Analysis of Media Technology for Recognizing Cardiac Arrest
Patrick Chow-In Ko; Yu-Chen Lin; Shun--Jie You; Wei-Ting Chen; Shy-Hsing Liu; Shyh-Shyong Sim; Yuan-Hsiang Lin, Department of Emergency Medicine, National Taiwan University Hospital

#224 An Analysis of Disaster Medicine Training for Medical Students
Daniel Shocket; Erik Rueckmann; Courtney Jones; Molly McCann, University of New Mexico

#143 The 2015-16 Emergency Medical Services Fellows
Brian Clemency; Dipesh Patel; Christian Martin-Gill; Jeffery Myers; Nicole Rall; Heather Lindstrom, University at Buffalo

#226 Experience of a Stadium Medical Response for an NFL Football Team
Jeffrey Luk; Sorapat Vijitakula, University Hospitals Case Medical Center/Case Western Reserve University

#215 Merger of 2 dispatch centres: beyond economies of scale, does it improve quality and patient safety?
Fabrice Dami; Alexandre Moser; Vincent Fuchs, Lausanne University Hospital, Emergency Department, Lausanne, Switzerland

#208 Preliminary and Potential Impacts of a Partnership Between EMS and Health and Human Services on Call Volumes Generated by EMS “Super-Users”
Jamie Baltrotsky; Alan Butsch, BS, NRP; Ashley Robinson, MA, NRP; Robert Lindsey, M.Ed, NRP; Roger Stone, M.D., M.S.; Barry Reid, Montgomery County Fire Rescue Service

#206 Assault on EMS: Is a statewide registry in XXXXX’s future?
Jason Stopyra; Marybeth Wells; Simon Mahler; Joseph Zalkin, Wake Forest School of Medicine

#199 Aggressive Cooling Prior to Transport from a Large Mass Gathering Event Results in Favorable Neurologic Outcomes for Drug-Induced Hyperthermia
Benjamin Smith; Dalearrison; Pete Carlo; Nicolas Rubel, University of Nevada School of Medicine, Department of Emergency Medicine

#160 THE BURDEN OF EMERGENCY MEDICAL SERVICES CARE FOR DIALYSIS PATIENTS
INNOVATIONS IN EDUCATION POSTERS
5:00 p.m. – 6:15 p.m. Tuesday, January 24

#1 HAZMAT Medicine Training for Emergency Medicine Residents
Jeffrey Lubin, Penn State Hershey Medical Center

#2 Creation of a High-Fidelity Confined Space Field Amputation Simulator
Jason McMullan; Gavin Hayes, University of Cincinnati

#3 A Program to Increase Exposure of Medical Students to Pre-Hospital Medicine Through Self-Directed Learning and a Hands-On Exercise.
Chadd Nesbit; Keane McCullum; Saulius Elertas, Department of Emergency Medicine, Penn State Milton S Hershey Medical Center

#4 EMT Skills Training for Physicians Without Prior EMS Experience
Leonard Weiss; Christian Martin-Gill, University of Pittsburgh

#5 Development of Child Abuse Recognition Education for EMS Providers using Deliberate Practice
Kathleen Adelgais; Denise Abdoo; Katherine Snyder; Sean Caffrey; Martin Pusic; Kathy Boutis, University of Colorado School of Medicine

#6 A Low Cost Traction-Splint Training Model Alternative
Amir Louka; Stephanie Louka; Jeffrey Ferguson, Virginia Commonwealth University

#7 The Comparative Effectiveness of Immersive Simulation vs. Standard Didactic Lecture in the Implementation of a Mass Casualty Triage Educational Course.
Christopher McCoy; Rola Alrabah; Julie Sayegh; Kimberly Sokil; Mark Langdorf; Carl Schultz; Warren Weichmann, UC Irvine Healthcare

#8 The Feasibility and Effectiveness of Using Telesimulation and Google Glass for Mass Casualty Triage Education and Training: An International Telesimulation Study
Christopher McCoy; Rola Alrabah, UC Irvine Healthcare

#9 Prehospital Performance Improvement Rubrics Can Aid in Resident’s Attainment of Emergency Medicine Milestones
Jeremy Cushman; Heather Lenhardt; Benajmin Sensenbach; Lee Marks; Eric Davis; Flavia Nobay, Department of Emergency Medicine, University of Rochester

#10 Novel EMS Fellowship Schedule Mirroring Fire Department Schedule
Dorothy Habrat; Darren Braude; Chelsea White; Emily Pearce, University of New Mexico EMS Consortium

#11 Communication and Medical Command Training for Emergency Medicine Residents
Elizabeth Werley; Glenn Geeting; Gail Rudnitsky; Jeffrey Lubin, Penn State Hershey Medical Center
#12 EMS Month: Familiarizing Emergency Medicine Residents With Prehospital Care And Disaster Medicine
Nicholas Costain; Valerie Charbonneau; Simeon Mitchell; Michael Austin; Andrew Willmore; Andrew Reed; Richard Dionne; Justin Maloney, Department of Emergency Medicine, University of Ottawa

#13 Medical Direction for the Medical Student: A Report of a Focused Prehospital Education Initiative
Julian Mapp; Chetan Kharod, San Antonio Uniformed Services Health Education Consortium

#14 A Standardized EMS Medical Control Curriculum for Emergency Medicine Residents and Pediatric Emergency Medicine Fellows
Novneet Sahu; Robert Rosenbaum; Patrick Matthews; Ross Megargel, Christiana Care Health System

#15 High-Fidelity, Real-World, Simulation Based Approach to Train EMS fellows and EM Residents in the Principles of Mass Casualty and Disaster Management
Kacey Kronenfeld; Emily Kraft; Elizabeth Weinstein; Gregory Faris; Tom Lardaro; Emily Fitz; Josh Mugele; Daniel O’Donnell, Indiana University Department of Emergency Medicine, Division of Out of Hospital Care

#16 Base Hospital Nurse Education for Pre-Hospital Identification of Pediatric Status Epilepticus in a Large Urban Setting
Tiffany Abramson; Amgelica Loza-Gomez; Yvette Kearl, Keck School of Medicine of USC, LAC+USC Department of Emergency Medicine