

Emergency Medicine Today 2009



North Carolina Office of EMS

[GENERAL SESSION 1]

The Garner Industrial Disaster and the continuum of care, EMS, Hospitals, Trauma Center, Burn Center

Randy Kearns, Moderator; Mr. Skip Kirkwood, Wake County EMS; Dr. Barb Bisset, WakeMed; Mr. Alan Foster, Rex Healthcare and Dr. Bruce Cairns, North Carolina Jaycee Burn Center

This presentation will focus on the response efforts at the scene to include EMS and other organizations, management and flow of the patients to the area hospitals, the trauma center and the burn center and discuss the actions of these organizations to minimize injuries and save lives. This disaster was potentially catastrophic and while the numbers who were actually injured were significantly less than those at risk who were in the building, the number of patients still posed a significant challenge for the various agencies involved. This event serves as yet another reminder that our preparation for mass casualties is important and just like the events of June 9, the next great medical disaster will occur. Are you ready?

[GENERAL SESSION 2]

It Could Happen To You...

Zach Bieghler, Paramedic Lab Assistant/Instructor
Hutchinson Community College

In this presentation Mr. Bieghler will review a personal experience that he endured and the lessons he learned from it. At the time of the incident Mr. Bieghler was a successful paramedic and instructor that loved his job. That all changed when Mr. Bieghler decided to blog about an EMS call that he responded to. During this session, he will cover the incident from start to finish including the impact it had on his career.

[EDUCATIONAL BREAKOUT SESSIONS— BLOCK 1]

How The Generational Gaps Affect The Call Taker

Donna Wright, Deputy Director, Richmond County Emergency Services

This session will review the characteristics of generations and the generational differences in today's society. Knowledge and understanding of these background pieces will assist the telecommunicator with managing the call-taking process more efficiently.

Leadership Science: Transforming Yourself into a Respected Leader

Brian Pearce, Emergency Services Director, Duplin County Emergency Services

Leadership is confused with management, supervision, or authority; but is actually the often overlooked ability to influence others to follow you. Many people mistakenly think that leadership is an inherited personality trait, when in fact it is just principles and behaviors that can be taught and developed. Everyone is a leader at some point in their career; Leadership Science will teach you how to develop your leadership potential.

Concepts, Changes, and Conundrums

Jeff W. Hinshaw, Assistant Professor, WFU School of Medicine/ Dept of EM and Michael J Maher, Training Captain, Forsyth County EMS

Hemorrhage control techniques have not changed in many years but there are current concepts that have been challenged and new and old devices that are being used now. Come hear a discussion of the new and old and the issues surrounding hemorrhage control.

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Incident Rehabilitation: Delivering Definitive Care to Fellow Responders

Jonathan Olson, Assistant Chief of Operations, Wake County EMS

Responder Rehabilitation is more than just providing water to fire service and other responders at incident scenes. There is a critical need for EMS to be proactive in addressing the physiological stressors of responders to prevent illness and injury. Wake County EMS has taken "ownership" of the rehabilitation in their community. This session will explore the science of incident rehabilitation and look at how Wake EMS has applied it effectively for their public safety personnel.

Making the Grade: EMS Education in the 21st Century

Kent Spitler, EMS Program Director, Gaston College

Explore the issues and challenges dealing with EMS students and classroom success. Change is what builds a profession and EMS education is an integral part of our future. The past haunts us and the future brings anxiety.

Millennials are rising and the baby boomers are getting older. Finally those grinding questions: Are we public safety or health care? Curriculum or continuing education paramedic? What will accreditation do for us? Why do we need to change? Carp Diem!

The Pediatric Airway: Case Scenarios and Management Considerations

Dr. Benny L. Joyner, Jr., Assistant Professor, Pediatric Critical Care Medicine, University of North Carolina at Chapel Hill

The Pediatric airway presents unique challenges to both out-of-hospital and in-hospital providers of emergency services. A clear understanding of the anatomy and physiology of the pediatric airway is essential to the successful management of the pediatric patient with respiratory compromise.

Practitioners attending this session will have the opportunity to review the anatomy and physiology of the pediatric airway and apply this knowledge in case scenarios.

[EDUCATIONAL BREAKOUT SESSIONS—BLOCK 2]

Sports Injuries - Managing the Sidelines

Dr. Scott G Sagraves, Trauma Director, Pitt County Memorial Hospital

Combining both lecture and case studies, along with personal experience, this session will help the EMS provider plan and

treat common sports-related injuries often encountered during sport stand-bys. The session will also discuss the anatomy and physiology of common sports-related injuries and medical conditions. Cases will be used to emphasize common sideline injuries and their treatment algorithms. Concussion assessment and return to play guidelines will be presented and the NC High School Athletic Association guidelines will be reviewed.

RACE-ER: Advanced Concepts in EMS care of STEMI Patients

Claire Corbett, RACE Coordinator, Wilmington North Carolina, RACE-ER and Jamie Jollis, Medical Director RACE-ER, Associate Professor of Medicine Duke University Medical Center, RACE-ER, Duke University Medical Center

Reperfusion of Acute Myocardial Infarction in North Carolina Emergency Departments-Emergency Response. The RACE project is a statewide system for providing rapid coronary artery reperfusion for patients with ST-elevation myocardial infarction (STEMI). Established in 2003, the RACE system incorporates the quality improvement efforts of over 100 hospitals, 700 emergency medical systems, and thousands of health care professionals working in a coordinated effort to provide timely reperfusion. EMS plays a key role in the rapid treatment of STEMI patients by recognition of STEMI patients, triage to the appropriate medical center and prehospital activation of the cardiac cath lab team. This presentation will discuss implementation of an EMS STEMI plan, STEMI bypass and key concepts in STEMI care.

Exercise and Nutrition for a Life in EMS

T. Steve Gardner, District Chief, Wake County EMS

This presentation overviews the state of health of EMS providers, compares it with other public safety professionals and discusses nutritional, weight loss, exercise and gives guidance to EMS personnel on how to get themselves in the physical condition necessary to survive a career in this physically demanding field.

EMS System Triage and Destination Plans

Dr. Greg Mears, State EMS Medical Director, North Carolina Office of EMS / EMS Performance Improvement Center

North Carolina's new EMS rules require each EMS System to develop a triage and destination plan addressing the needs of acute Trauma, STEMI, Stroke, Pediatric, and Burn patients. These plans must be in place by December 31, 2009. This session will provide an overview of the model EMS Triage and Destination Plans developed by the NC Office of EMS to assist

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EMS Systems in this process. Included in these model plans are templates which can be used by EMS Systems to easily meet this regulatory requirement.

Running on Empty? Refueling the EMS Professional's Self-care Tank

Dr. Mark Holland, District Chief Chaplain, Parkwood Fire/EMS

At the end of a 24- or 12-hour shift, EMS professionals are often physically, emotionally, mentally & spiritually exhausted. This presentation will explore the theme of self-care in EMS, evaluate the "high cost" of providing care in emergency services, identify the indicators of "EMS exhaustion," and distinguish crucial self-care practices for replenishing the EMS professional's physical, emotional, mental & spiritual well-being.

Who Wants To Be An Emergency Medicine Millionaire-Version 3

Debra Braun, Chief Executive Officer, Clinical Inservices Solutions, LLC and John Duskey, Clinical Educator, Duke Health System

After a debut in 2007, the popular "game show" returns again this year exploring cases in Cardiology, Pediatrics, and Endocrinology. This session uses active learning and technology to involve the learner with the goal of developing critical thinking skills in Emergency Care Providers. Up to 200 audience members compete via an audience participation system to get the highest number of correct answers to questions from relevant case studies. So join us for this upbeat learning experience... but come with your thinking caps on, or prepare to "phone a friend"!

[EDUCATIONAL BREAKOUT SESSIONS—BLOCK 3]

Medical Director Update (Part 1)

Dr. Greg Mears, Medical Director, North Carolina Office of EMS

The annual Medical Director Update provides an opportunity for EMS Medical Directors and Administrators to discuss current issues and challenges impacting EMS Systems, Agencies, and Medical Directors. These sessions allow EMS Medical Directors to network and many of the topics discussed are generated by the audience. Included in the update will be a review of current NC EMS rules, EMS Protocols, the NC Performance Improvement Guideline, and the EMS System Triage and Destination Plans which all must be implemented by December 31, 2009.

Life After EMS

William (Tracy) Jackson, Deputy County Manager, Iredell County

This panel discussion will provide insight into the various opportunities and career paths that exist for those who eventually choose to make the leap from Emergency Medical Services to another profession. Each panelist will explain from his/her point of view exactly what it took to move beyond a traditional career in Emergency Medical Services. Session participants will have an opportunity to ask questions once the panel has finished its presentation.

Incident Investigation; Methods to Identify Cause and Implement Change

Dave Bradley, Education Specialist, VFIS

Every year, emergency service organizations (ESO's) experience a myriad of incidents. It is in the investigation, and specifically in the information gathered during incident investigations that we may find the solutions to many of the problems that create needless losses. Join Dave as he discusses the issues regarding what should be investigated, the role of staff and management, and the investigation process.

Controversies In Trauma Care - What Happened To My IV Startin', Tube Droppin' EMS World?

Michael Keller, Curriculum Faculty, Gaston College Department for EMS Education

This session will review what is new in the literature about trauma care and predictable trends. Articles presented will be controversial and challenge long standing practice and beliefs. Specific journal review will be conducted with audience participation expected. Each participant will receive a bibliography listing of reviewed literature.

EMS Lessons from a Diesel Mechanic.....A Tribute to My Father

Chy Miller, Department Chair - Public Safety & EMS Program Director, Hutchinson Community College EMS Education

Strange as it may sound, my father, who spent his life as a diesel mechanic, taught me lessons as an EMS provider that have made me think critically about my skills, my patient care, my attitudes, and the tools to be successful in our profession. Join Chy Miller in the exploration of these lessons and discover how it all applies to EMS personnel and the job that we perform daily. This is truly education you won't find in the traditional classroom.

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Teach Them to Play Well With Others: Teaching Soft Skills in the Classroom

Kelly Kirk, Program Director, Davidson County Community College

This session will review a variety of techniques that can be used in EMS education to teach the "Soft Skills" that are so commonly overlooked. Participants will be exposed to the "Affective Evaluations" found in the National Standard Curriculum and see how one educator incorporated them into his classroom.

[EDUCATIONAL BREAKOUT SESSIONS—BLOCK 4]

Medical Director Update (Part 2)

Dr. Greg Mears, Medical Director, North Carolina Office of EMS

The annual Medical Director Update provides an opportunity for EMS Medical Directors and Administrators to discuss current issues and challenges impacting EMS Systems, Agencies, and Medical Directors. These sessions allow EMS Medical Directors to network and many of the topics discussed are generated by the audience. Included in the update will be a review of current NC EMS rules, EMS Protocols, the NC Performance Improvement Guideline, and the EMS System Triage and Destination Plans which all must be implemented by December 31, 2009.

Why do EMDs do what They do?

Jerry Chaney, E911 Division Head, Onslow County

In this presentation we will look at the rationale behind some of the instructions that Emergency Medical Dispatchers give. We will explore why they tell callers to give aspirin and epinephrine but not other medications? Why do they give 600 compressions sometimes and only 30 the next? The aim is to give the Emergency Medical Dispatcher more confidence that the instructions they give are the best possible things to tell the caller.

Career Development in EMS: The Issues and the Options

Skip Kirkwood, Chief, Wake County EMS Division

Must EMS be a "one trick pony," with the only long term career options being "the back of the truck" and "the front of the truck? This presentation will consider the big picture, and offer strategies for EMS leaders who want to provide their people with satisfying, balanced career opportunities.

To Treat or Not to Treat? - Identifying Ethical Dilemmas in EMS

Bradley Dean, Assistant Regional Emergency Response and Recovery Coordinator, WFUBMC / Triad RAC / Davidson County Emergency Services

Today's EMS providers find themselves in a struggle, having to choose between what they perceive as right (acting in the best interest of the patient) and what is legal, which requires conforming to accepted standards of care. EMS providers are forced to think about our values (what's important to us in terms of delivering good patient care), to consider how we're expected to act (by the patient or their family, by protocol and by law) and to assess how we treat others. We call these values and actions ethics. This session presents participants with ethical conflicts where values, protocols and patient care goals clash with the patient's wishes. Throughout the session participants will be able to develop a plan to approach ethical conflicts in EMS. By changing how EMS providers react to ethical conflicts we will be able to provide a higher standard of patient care.

Pediatric Trauma: Aren't they just small adults?

Dr. Scott G Segraves, Trauma Director, Trauma & Surgical Critical Care

This session will review and explain the physiologic and anatomic differences between adults and children. Case-based reviews of specific trauma related injuries will be presented and treatment algorithms will be provided and reviewed and finally, common treatment strategies such as those defined in pediatric advanced life support will be introduced to the EMS provider.

I Missed the Warning Signs, Will You?

Kirk Mittelman, Paramedic Program Director, University of Utah

The call comes out, "Shots Fired!" from your partner. You are one that has been shot, what now? During your career facing death will be a part of everyday life. But we commonly think of it in terms of someone else dying. What if you are facing an armed patient, how will you react? Will you see the warning signs of a violent patient? If you miss them it could mean your life. During this session Mr. Mittelman will discuss his experience with being shot and what to do if things go wrong.

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Shades of Blue: Appreciating and Incorporating Diversity into the Fabric of EMS

Sandy Hunter, Ph.D, Professor, Eastern Kentucky University

During the past 10 years, EMS has seen a significant growth in both an awareness of, and the number of discussions about its lack of diversity. These have led EMS agencies to undertake efforts to make a difference. These efforts have included empirical research, federal outreach, public education and corporate training programs. This session will describe real world implications of culture, race and gender in various EMS settings. Current data, interactive discussion and video clips from popular films will be used to create a framework for this presentation.

[EDUCATIONAL BREAKOUT SESSIONS—BLOCK 5]

NC OEMS Education Update

Barbara Chorney, RN, Education & Credentialing Manager;
Kyle Jordan, Ed.M, Educational Programs Consultant; Connie Batson, Education Liaison - East; Eddie Jordan, Education Liaison - Central and Jeff Powell, Education Liaison - West, North Carolina Office of EMS

This session will review upcoming changes in EMS education in North Carolina and across the United States.

Using Lean Tools to Understand Where the Money is Going and How to Stop the Leaks

Thomas Hall, Performance Manager, Novant Health

Have you ever wondered how much it costs for your EMS personnel to capture patient notes on the back of an unopened 4X4 package or the savings you would have if you staffed an ambulance with all part-time employees versus full time employees? During this session we will discuss several Lean Tools and how to use those tools to help you save money and better survive today's hard economic times.

Welcome to Our World -a Visitor's Guide to Working with Families of Children with Special Health Care Needs

Murney Rinholm, NC EMS-C Family Representative
NC EMS-C

This session will introduce the provider to the world of families of Children with Special Health Care Needs (CWSHCN). A discussion of Family Centered Care concepts along with some long overdue updates on current political correctness when working with families will offer a new perspective to this often

feared group of patients. Statistics showing how specialized training in CWSHCN can increase provider comfort levels will be shared along with an update on the NC EMS-C sponsored KidBASE program to aide in communication between families and providers. Participants may also enjoy hearing the various stories and examples of "what not to do (or say)" that will be included.

Leaders are Made, Not Born

David A. Bradley, Education Specialist, VFIS

If you always do what you always did, you will always get what you always got. Successful leaders do not focus on the power of the position; rather, a good leader understands and appreciates his/her team. Leadership is a balancing act successfully navigated by those that understand their own strengths and weaknesses and the strengths and weaknesses of the team. Once the leadership traits are understood, we can then evaluate how those traits influence the managerial functions of our business. Join Mr. Bradley as he explores the key leadership principles that provide the framework to developing strong leadership skills.

Skydiving Related Injuries - It's Not the Fall that Kills!!

Louis Seay, Operations Manager, Carilion Clinic Life-Guard and Harinder Dhindsa M.D., Associate Professor / Medical Director, VCU Medical Center / LifeEvac of Virginia

What happens when your parachute fails to open correctly and gravity wins the fight? There are an estimated 29 to 33 deaths related to skydiving every year. However, injuries are harder to estimate because not everyone reports them and there is no clear classification on what constitutes an injury. . This session will review three specific case studies involving skydiving related accidents and the common injuries associated. We will examine the ethical dilemma and unique challenges to patient care with air transport crews in this patient population.

How To Beat The Bear.....HazMat Patients

Chy Miller, Department Chair - Public Safety & EMS Program Director, Hutchinson Community College EMS Education

In a world of inundating information regarding hazardous materials, how does the Fire/EMS professional know how to treat patients appropriately? So many chemicals with so many variations can easily cause the EMT or Paramedic anxiety in knowing what to do when. Join us in this session to learn that, no matter what, all haz-mat patients can be evaluated and treated within five toxidromes.

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[EDUCATIONAL BREAKOUT SESSIONS— BLOCK 6]

What is Quality in Emergency Medical Dispatch

Jerry Chaney, E911 Division Head, Onslow County 911

In this sessions participants will look at the principles of quality improvement as it relates to the practice of Emergency Medical Dispatching. We will see what constitutes compliance with the protocols and what are acceptable deviations to the protocols. The session will be based on the quality improvement standards published by the National Academy of Emergency Dispatch.

NC OEMS Disciplinary Committee: Update on Activities

NC OEMS Disciplinary Committee

Session participants will have the opportunity to review the potential impact of an Impaired Provider, discuss how such a program might operate and discuss the processes and reasons that a provider might appear before the disciplinary committee.

Take My Job, Please.....

Stacey Montelongo, ICEMS Training Officer, Iredell County EMS

This session is centered on interviewing techniques and strategies. Examples of the good, bad and ugly are presented for the current field provider who is seeking higher level EMS positions such as supervision and/or administration.

What the research shows

Michael Keller, Curriculum Faculty, Gaston College Department for EMS Education

This session will review a collection of current research topics, directly relating to the care of pre-hospital and emergency medicine patients. Research relating to airway management, cardiology, pharmacology, trauma, medical/legal considerations and quality initiatives will be presented and discussed. Areas being addressed come from major medical research publications including; Prehospital Emergency Care, Academic Emergency Medicine, Circulation, New England Journal of Medicine, Annals of Emergency Medicine and other leading research-based medical publications. Each participant will receive a bibliography listing of reviewed literature.

The Trauma Triad of Death

Shannon Holley, Flight Paramedic, EastCare Air

This session will discusses hypothermia, acidosis (respiratory

and metabolic) and coagulopathy as they relate to trauma patients. The session also covers ways to prevent of break the cycle known as the Trauma Triad of Death. Trauma care has evolved and appropriate pre-hospital care is key to positive patient outcomes and ultimately patient survival.

Suicide, Our Dirty Little Secret

Kirk E. Mittelman, Paramedic Program Director, University of Utah

Have you ever wondered what drives people to suicide? Have you ever thought maybe EMS could have done more to help? In this session we will look at suicide and the effect it has on family members and EMS workers. Join Mr. Mittelman in the discussion of the warning signs of suicide and how to deal with someone who is threatening suicide. Come with an open mind and be prepared to discuss your deepest fears to help us all solve a growing problem.

[GENERAL SESSION 3]

The Pinelake Nursing Home Incident

Dr. Matthew Harmody, Medical Director, FirstHealth EMS and Critical Care Transport, FirstHealth of the Carolinas
Bryan Phillips, EMS Chief, Moore County Public Safety, Moore County EMS

On March 29, 2009, a gunman opened fire at Pinelake Health and Rehab Center in Carthage, North Carolina resulting in 8 fatalities. We will discuss how this mass casualty incident was managed with the coordinated efforts of law enforcement, emergency medical service and 911 personnel, emergency department staff, and hospital administration. Results from post-incident reviews will also be reviewed so that others may benefit in future planning and mass casualty incident response.