

National EMS
SAFETY SUMMIT
Make it a culture!
August 29-31, 2018



National EMS Safety Summit
Embassy Suites Denver Downtown Hotel
Silverton Ballroom

August 29-31, 2018

Course Description and Learning Objectives
Draft 5.25.18

Wednesday, August 29, 2018

8:15 - 9:00

**Operations Consideration to Improve and
Ensure Crews & Patient Safety**

A J Heightman, MPA, EMT-P

Editor-in-Chief, Journal of Emergency Medical Services (JEMS)

Course Description:

This lecture will take a look at key areas that field personnel and their supervisor and managers should pay close attention to ensure the safety and protection of their crews and patients. A J Heightman will focus on threats to safety and security that exist today, including: Vehicle and patient transport hazards; On scene security and defensive posturing; Heightened situational awareness made necessary in the face of increasing violence against public safety and emergency responders; Hazards presented by Opioid overdoses and chemical suicides; and Increasing mental health issues caused by drugs, PTSD and traumatic brain injuries. A J will discuss action plans and programs that attendees should consider improving the awareness, training and response approaches used by crews.

Wednesday, August 29, 2018, Continued

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand current threats to safety and security for crews
- Understand on scene security and defensive posturing
- Understand hazards presented by Opioid overdoses and chemical suicides

9:15 – 10:00

Lights and Sirens: Above All Do No Harm

Douglas F. Kupas, MD, FAEMS

Geisinger Health System/Danville Ambulance Service,
EMS Agency Medical Director

Course Description:

Dr. Kupas is a national expert on the use of emergency lights and siren by EMS. He authorized the 2017 National Highway Traffic Safety Administration monograph on L&S use in EMS. The presentation will discuss topics of L&S risks, time savings, performance parameters, benchmarks, visibility, siren effectiveness, and physiologic effects of L&S on providers and patients. Recommendations from the monograph will be reviewed.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Describe recommended benchmarks for rate of L&S use during response and patient transport
- Understand the differences between emergency lights use when “requesting the right of way” and “blocking the right of way”
- Describe the physiologic risks to EMS provider hearing and patient adrenergic response
- Understand the NHTSA monograph recommendations for L&S use in EMS

10:30 – 11:30

First Responder First – Building PTSD Prevention into Workplace Health and Safety

Kim Slade

*B A English and Communications, CTD
PSHSA, Director of Emerging Markets and Commercialization*

Course Description:

According to research EMS first responders are more than twice as likely as the general population to develop Post Traumatic Stress Disorder. In Ontario, and Canada, the number of suicides within the first responder community was significant and as a result

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the government put significant efforts toward helping organizations take steps to develop PTSD Prevention Plans. This course will review a framework that was developed to support and integrate PTSD prevention strategies into first responder organization occupational health and safety practices. The session will review www.firstrespondersfirst.ca a freely available electronic toolkit and the recently developed Z1003.1 standard, Paramedic Psychological Health and Safety in the Workplace which are tools that workplaces can use to address psychological hazards in the workplace.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Review the PTSD Prevention Strategy, standards and other compensation policy changes they have been implemented to address psychological health and safety including PTSD, Chronic Mental Stress and Traumatic Mental Stress
- Review the PTSD Prevention Framework and supporting resources
- Identify specific steps that can be taken to change work practices, reduce stigma and promote and foster self-care and resilience

11:30 - 12:15

High Visibility EMS: Vehicle and Provider Conspicuity

Douglas F. Kupas

Course Description:

Visibility is one of the most important aspects of safety for EMS vehicles and providers. This session will demonstrate features of the color spectrum, that increase visibility the implications to the vehicle design. Other aspects of visibility retroreflective material and hi-visibility outerwear will be reviewed, including US and European perspectives on vehicle design and outerwear.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Describe the aspects of EMS vehicle conspicuity, including visual spectrum, color, retroreflective material and emergency lights

1:00 - 1:30

Fire Fighter Medical Fitness for Duty- Is it Relevant to the EMS Profession?

Thomas Hales, MD, MPH

Centers for Disease Control and Prevention (CDC), NIOSH, Medical Director

Course Description:

This presentation will review the development and content of National Fire Protection Association (NFPA) 1582 –Standard on Comprehensive Occupational Medical Program for Fire Departments and discuss its relevance to the EMS profession.

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Learning Objectives:

Following completion of the session, attendees will be able to:

- Historical development of the NFPA consensus guidelines regarding medical fitness for duty for firefighters
- Screening tests recommended to identify medical conditions associated with sudden incapacitation
- Medical conditions that should result in fire fighter work restriction (according to NFPA 1581)
- The relevance of these guidelines to the EMS profession

1:30 – 2:00

Breaking Down the CDC/NIOSH Recommendations for Reducing Provider Injury

Bryan Fass, ATC, LAT, CSCS, EMT-P (Ret)
Fit Responder Founder & President

Course Description:

According to the CDC, NIOSH and EMS.gov first responders have the highest rate of lost work days and gets hurt more than the general workforce in the US. Lost work days alone are a significant cause of financial and operational strain for employers. Employees leave the profession due to pain, injury, and stress causing further operational strain. This class will explore the five NIOSH action areas, provide action points and fires steps for organizations while exploring best practices on risk reduction.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand where risk of injury comes from in EMS
- Identify where EMS falls short in adopting a true and lasting safety culture
- Learn where to get started in your safety journey

2:00 – 2:30

Update on NHTSA/NAEMSO National EMS Scope of Practice Model Revision Project

John Gallagher, MD, FACEP
Wichita/Sedgwick County EMS System, Medical Director

Course Description:

The original National Scope of Practice Model was published in 2007 and is currently under revision. Dr. Gallagher serves as the NAEMSP representative to the Subject <Matter Expert Panel for the project and will provide an update on the progress of this practice changing document. Participates should have familiarity with both the process

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and the final product because it defines the national scope recommendations for all level of EMS providers. Changes in the national document will certainly result in changes at the local level.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the proposed changes to the revised National Scope of Practice Model
- Discuss the state, regional, and local level impact on the delivery of EMS

4:00 – 4:45

Crossborder EMS Dispatch- Safety for Patients and EMS in Spite of Different Systems and Languages

Siegfried Weinert, MSc

Notruf Niederoesterreich, Back Office – Special Projects

Susanne Ottendorfer, MD, BBA

Notruf Niederoesterreich, Medical Director

Course Description:

Facts and figures about EMS in Austria and the Czech Republic; problems specific to the border area; the way to State Treaty and International; Cooperation Treaty; the role of Notruf Niederoesterreich, Lower Austria's Emergency Dispatch Center.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the challenges of working with various languages in a dispatch center
- Understand the between countries and providing EMS

4:45 – 5:15

Thoughts on EMS

Thom Dick

Course Description:

Learning Objectives:

Following completion of the session, attendees will be able to:

Thursday, August 30, 2018

8:00 – 9:00

Risk Assessments, Data and Human Nature: Making Safety Training Real-Life

Jeffrey White, MS, MTSP-C, FP-C

Director of Safety, HealthNet Aeromedical Services, Inc.

Course Description:

As humans we have developed an innate sense of survival thru development of habits. This course will discuss how we as managers can use data collected from transport debriefs, risk assessments and other safety reports to tap into this ability to develop habits and become aware using mindfulness techniques to create a true safety mentality.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the role of data in developing safety habits
- Understand mindfulness techniques to create a true safety mentality

9:00 – 10:00

Training for Quality Improvement and Safety: The NAEMSP Quality and Safety Course

Michael Redlener, MD FAEMS

St. Luke's and Mount Sinai West

Assistant Professor, Emergency Medicine

Medical Director for EMS and Disaster Preparedness

Chair, National Association for EMS Physicians (NAEMSP)

Quality and Safety Committee

Scott Bourn, PhD, RN, FACHE

VP Clinical & Quality & Impact, ESO Solutions

Course Description:

NAEMSP launched the Quality and Safety Course at the 2018 NAEMSP annual conference in San Diego to address a perceived gap in EMS leadership training with regard to quality improvement. Geared toward EMS managers/quality improvement specialists and medical directors, the course uses a multi-faceted approach to engage learners in a hands-on approach to quality improvement in their agency or region.

- An introductory session
- Monthly synchronous learning sessions
- Associated learning with the Institute for Healthcare Improvement
- Monthly reading and response
- Capstone project development with mentorship from course faculty.

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As the tools of quality improvement become more robust, EMS leaders must be prepared to engage quality and safety at the most sophisticated level to assure highly effective and safe care. We will propose future ideas and growth opportunities for this course.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Describe origins and aims of NAEMSP Quality and Safety Course
- Identify the role of quality improvement programs in EMS agencies
- Discuss use of multimodal strategies to build quality improvement skills for participants
- Review opportunities for collaboration and growth with audience

10:30 – 11:45

Lightning and You- How Safe Are You?

Marty Coniglio, Broadcast Meteorologist
Barb Stemple, Survivor
Cheryl Olson, EMS Flight Nurse
Larry Moore, Retired ER Physician
Steven Clarke, Meteorologist
Carl Swanson III, LDC Project Manager

Course Description:

Lightning Safety Primer for First Responder

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand how lightning strikes get transmitted from one person to another
- Understand how to keep yourself safe during lightning strikes

12:30 – 1:30

Evidence-Based Guidelines for Fatigue Risk Management

P. Daniel Patterson, PhD, NRP
University of Pittsburgh, Department of Emergency Medicine,
Assistant Professor

Thursday, August 30, 2018, Continued

Course Description:

Greater than half of EMS clinicians report severe mental and physical fatigue and poor sleep quality. Recently, the National Highway Traffic Safety Administration (NHTSA) funded a project to develop evidence-based guidelines for fatigue risk management in the EMS setting. The Principal Investigator (PI) of that project, Dr. Daniel Patterson, will present guidelines based on the best available evidence, and discuss how EMS agencies and frontline clinicians can adopt and implement recommendations for managing EMS fatigue.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Gain an understanding for the process of developing evidence-based guidelines
- Gain an understanding for each recommendation and how a recommendation was formulated
- Gain perspective on how recommendations may be implemented and monitored in diverse EMS systems

1:30 – 2:30

Who Ya Gonna Call? Legal Requirements for Safety Officer Compliance

Matthew R. Streger, Esq., MPA, NRP
Attorney at Law, Keavney & Streger, LLC

Course Description:

One of the more tangled aspects of EMS safety for agencies involves reporting requirements when bad things happen. Who do we need to notify, when do we notify them, and how do we accomplish these notifications, on both the state and federal levels, are critical tasks for the safety officer and the organization. Other requirements involve federal and state regulations governing employment and related issues. This lecture will look at legal requirements for Safety Officers involving both reporting and mandatory action for agencies.

Learning Objectives:

Following completion of the session, attendees will be able to:

3:00 – 3:45

Has Technology Made Us Safer?

Peter I. Dworsky, MPH, EMT-P, CEM
President Outcome Solutions
President International Association of EMS Chiefs (IAEMSC)

Thursday, August 30, 2018, Continued

Course Description:

EMS has implemented major advances in technology aimed at shorter response times, better communications and better patient care. But have these changes truly made it safer for the providers and their patients? This presentation will explore some of the operational and clinical trends that have emerged over time and discuss how the double-edged sword of technology both benefits and negatively impacts the day-day safety of the provider.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Describe how the overuse of technology creates an unsafe environment
- Describe the consequences of technological failures in context of patient safety
- Discuss what future technology may be coming and what potential pitfalls may occur

3:45 – 4:15

Shooting in Annaberg- a Case Report of Violence Against EMS and Police in the Austrian Countryside- Mayday Procedures

**Siegfried Weinert
Susanne Ottendorfer**

Course Description:

Facts and Figures about violence against EMS personnel in Austria; Information about EMS in Lower Austria; Lessons learned from the tragic shooting in Annaberg, Lower Austria; Development and Implementation of “Mayday Procedures” by the Notruf Niederoesterreich, the Lower Austria Emergency Dispatch Center

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the violence against EMS personnel in Austria
- Understand the components of Mayday Procedures

4:15 – 5:30

The Aftermath of Personnel Trauma, A Viewpoint After Las Vegas’ 1 October Mass Shooting

Glen Simpson, AEMT
Community Ambulance, Special Events Manager

Thursday, August 30, 2018, Continued

Course Description:

All EMS stakeholders in the Las Vegas Valley were severely impacted operationally and psychologically by the atrocious and tragic events on 1 October 2017 when 58 persons attending an outdoor concert were killed and 500+ more were injured in a mass shooting incident. Ambulance resources were quickly exhausted, all emergency departments were overwhelmed, operating rooms in local hospitals were immediately filled and make-shift surgery suites had to be established. In this 90-minute multi-media presentation, Glen Simpson, the Special Events division manager for Community Ambulance, will describe how he and his staff who were onsite and under fire during the incident were psychologically supported immediately after the incident. Glen will also discuss the on-going company initiatives Community Ambulance implements to further support "The 21" staff members who cared for victims that fateful night.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the systemwide impact of a mass shooting for all EMS stakeholders
- Value pre-planning for every contingency
- Realize that personal coping and recovery after a psychological trauma doesn't hold to a schedule
- Understand the power of moving forward- Learn what's working for Community Ambulance in terms of supporting their personnel.

One Purpose Fifty-Eight Reasons

D. Troy Tuke, RN, NREMT-P

Assistant Fire Chief – EMS Clark County Fire Department

Course Description:

Overview of Route 91 Shooting on October 1, 2017

Learning Objectives:

Following completion of the session, attendees will be able to:

- Discuss lessons learned during mitigation of this incident

Friday, August 31, 2018

8:00 – 8:15

***Update on the NEMSMA Health and Safety Officer
Credential***

Peter I. Dworsky

Course Description:

This course will outline the goals and objectives of developing a credential for a Health and Safety Officer.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the process of developing competencies for this role
- Understand the importance of creating this role
- Understand the process to obtain this exam and credential

8:15 – 8:45

European Ambulance and Uniform Design

**Siegfried Weinert
Susanne Ottendorfer**

Course Description:

Learning Objectives:

Following completion of the session, attendees will be able to:

8:45 – 9:15

***A Guide for Developing a Safety Program: National
EMS Safety Council***

Ron Thackery

Course Description:

Learning Objectives:

Following completion of the session, attendees will be able to:

Friday, August 31, 2018, Continued

9:15 – 9:45

Creating A Culture of Safety On A Low Budget

Carl Craige

Platte Valley EMS Agency, EMS Chief

Course Description:

Learning Objectives:

Following completion of the session, attendees will be able to:

10:00 – 10:45

Are you hiring Your Next Injury? Physical Abilities Testing for EMS Providers

Bryan Fass

Course Description:

EMS is a 100% physical job that requires a blend of job specific mobility, strength, power, balance and anaerobic conditioning. Yet many providers are forced to leave the profession in the first 1-3 years of employment because they were not fit for duty on hire. This class will examine the legality of pre-hire PAT's, common pitfalls of borrowing or self-creating tests and even how to test your existing employees. Fit employees are less like to get injured and are generally more resilient, so who are you hiring?

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the criteria for being fit for hire to prevent injury
- Understand the legality of pre-hire PAT's

10:45 – 11:30

Team Approach to Emergency Vehicle Operations

Justin Eberly

Education Specialist, VFIS

Friday, August 31, 2018, Continued

Course Description:

Every year we continue to see a high number of vehicle crashes involving emergency vehicles. A proactive approach must be taken to ensure that emergency vehicles are operated safely. The person that is seated in the “Right Front Seat” should be qualified and understand that they play a critical role in ensuring that the emergency vehicle arrives in a safe and prudent manner on every run

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the need for a culture of safety
- Understand their role in emergency vehicle operations
- Apply the basic concepts of defensive driving
- Identify the roles and responsibilities associated with riding in the right seat

11:30 -12:00

Does your Incident Need a Safety Officer

Scott Wooten, Lieutenant, EMT-P
Gwinnett County Fire & Emergency Services

Course Description:

We respond to routine calls daily. What do we do when the incident has escalated or ends up being more complex than we expected? Would this incident be considered significant enough to have a designated safety officer? Does your department have a plan in place when the need arises? Are you trained to the National Standard? We will examine the proactive approach to today’s incidents and the need to have a designated safety officer plan in place.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Examine the needs of your department or organization
- Understand training requirements and operational guidelines will be examined

12:45 -1:45

High Performance Ambulance Safety

David McGowen
Consultant, Road Safety
ZOLL Data Management Services

Friday, August 31, 2018, Continued

Course Description:

Ambulance service providers are recognizing the dangers associated with crashes that involve vehicles in their fleet. Statistics are painting a very dangerous trend while operating ambulances. Ambulance crashes account for 74% of the fatalities in EMS and the costs associated with them can cripple a business for years. How as ambulance providers can this trend be reversed and provide patients and staff with a safe environment? This presentation goes beyond the statistics and takes a close look at two facets of ambulance safety; the vehicle and the driver.

A deep look at several successful behavior based safety programs will give insight on how this can be applied in virtually all types of EMS and Fire organizations. From behavior modification devices to cultural shifts in the way that organizations approach safety will be presented.

The financial implications of a preventable crash go far beyond the obvious. The presentation will uncover the hidden costs that are mostly overlooked and provide several examples of a “cost of a loss” worksheet to the audience.

The close of the presentation will focus on the operational side of vehicle safety. It will assist the management team to make a self-assessment of their safety programs. This will also identify all aspects of safety and provide a comprehensive roadmap that will help mitigate risk within organization.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Examine evidenced based research on ambulance crashes to heighten awareness on how unsafe driving an ambulance is.
- Discuss two case studies on ambulances crashes to identify the risk factors that led up to these events.
- Identify the hidden risk factors that contribute to the unsafe operation of an ambulance and the tactics to effect change.
- Explain how a behavioral based safety program goes beyond clinical care and the ease of implementing one in an EMS organization.
- Examine the lesser known financial aspects of a loss and provide the attendee with several types of calculations to determine actual net revenue loss.

Friday, August 31, 2018, Continued

1:45 -2:30

Look How Far We Have Come.....?

Matthew Streger

Course Description:

Over the past 40 years, the field of EMS has made some dramatic strides, especially in the quality of medical care we provide. But a deeper look at our industry shows that we have not made as much progress as we think. This lecture will look at some critical areas in EMS, such as workplace violence, patient movement, opioids, provider wellness, lights and sirens use, boundary issues, and harassment and see what progress we have made. To help illustrate these points, we will look through the lens of cinema using the masterpiece “Mother, Jugs, and Speed.”

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand what changes have occurred in EMS over the past 40 years
- Understand current challenges of EMS
- Understand what changes still need to be made in the future for EMS

2:30 -3:30

Safe Transport of Children

Jason Kotas, NREMT, CPST

*The Children's Hospital Colorado
Outreach and Education Manager*

Course Description:

“The Safe Transport of Children in Ambulances” was designed to teach EMS personnel about selection and installation of ambulance-specific restraints and some types of conventional child restraints on the ambulance cot. General occupant protection principles and triage of where to place children inside of ambulances is also addressed in the training which combines lecture and case studies.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Discuss ambulance transportation issues and considerations
- Examine crash dynamics: Making the case to rear-face (Ourselves and our Patients)
- Review child safety seats (CSS) basics
- Identify CSS's appropriate for ambulance use
- Identify and discuss ambulance-specific child restraints
- Initiate proper installation of child restraints on the ambulance cot

Friday, August 31, 2018, Continued

3:45 - 4:30 **Safety Consideration at Active Shooter and Mass Casualty Events**

A J Heightman

Course Description:

This lecture will focus on the changing hazards, demands and operational aspects that EMS and fire service officials and incident commanders must consider and focus on to save the maximum number of patients and protect their personnel at fast-paced and hazardous multiple patient events. A J Heightman will address the modifications needed to MCI operational, triage, and transportation functions at volatile events, and address specific techniques for Command Post operations; vehicle staging and positioning; Triage while under fire; Use of, and protection of, citizen first responders; and Transportation and patient distribution.

Learning Objectives:

Following completion of the session, attendees will be able to:

- Understand the changing hazards, demands, and operational aspects of EMS and fire service to protect the maximum number of patients and personnel
- Understand modifications needed for MCI operations, triage and transportations functions at volatile events
- Understand Command Post operations



Thank you for attending this year's Safety Summit

See you Next Year!

August 26-30, 2019

Embassy Suites Downtown Denver