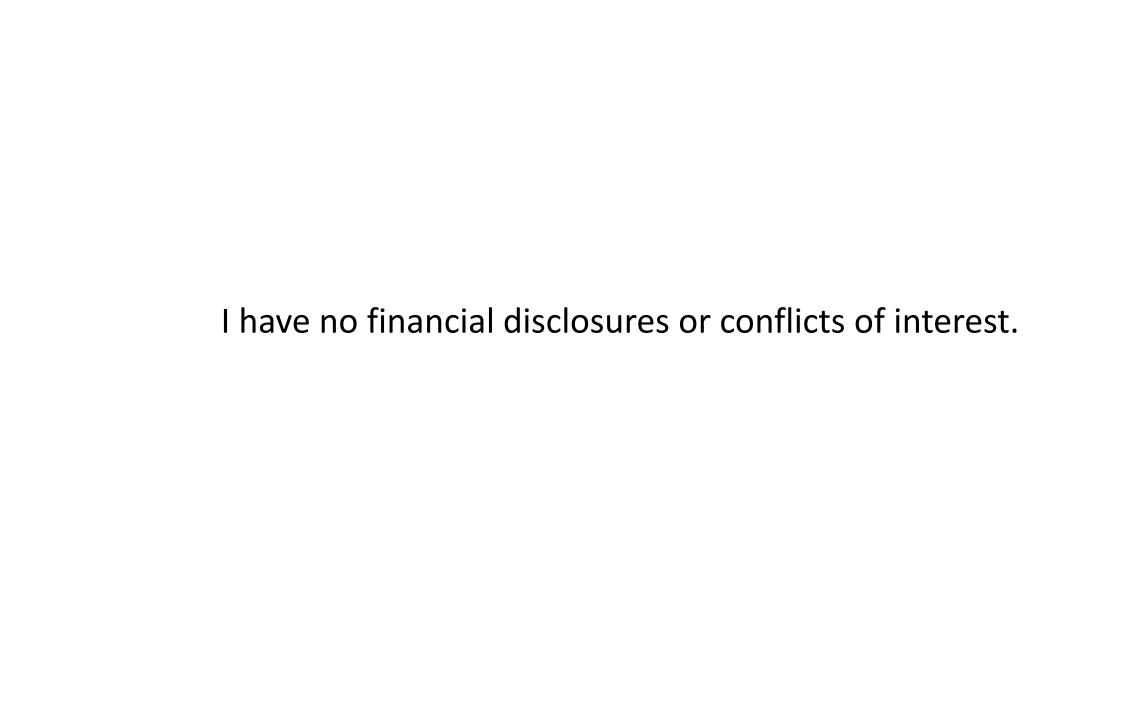
The Modern EMS Physician: Trends in EMS Medical Direction

Dustin Holland, MD, MPH, FACEP

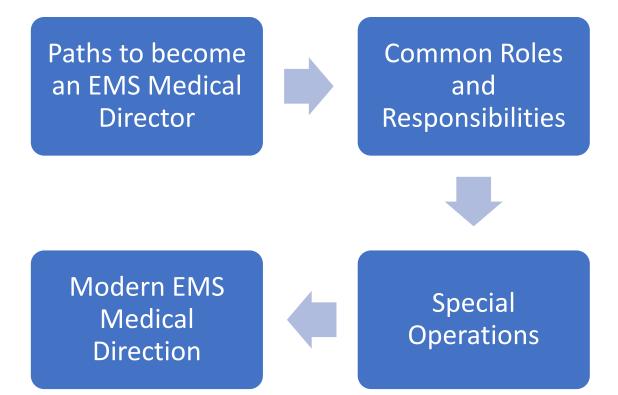
Medical Director

Carson City Fire Department
Central Lyon Fire Protection District
Carson City Sheriff's Office SWAT





Outline



What is a Medical Director?

- A physician who is responsible for all aspects of patient care for an EMS system or EMS provider service, including providing for or ensuring the medical control of EMS providers; the development, implementation, evaluation of medical protocols; and oversight of quality assurance activities.
- "the ultimate responsible authority for the medical actions taken by a prehospital provider or EMS system and the process of performing actions to ensure that care provided by EMS personnel is appropriate."



The A Path to become an EMS Physician

College Degree (4 yrs) +

Work Experiences / Time "off" +

Medical School (4 yrs) +

Residency (3-4 yrs) +

EMS Fellowship (1-2 yrs) +

= First "real" job

Generally, 12-14 yrs post-High School





























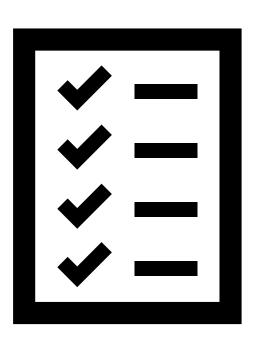






Medical Director - **Minimum** Requirements

Knowledge of Physician the EMS DEA license system State Scope Protocols Basic of QI of Practice Federal and Ethical EMS Training* State Laws Standards or Experience





Ideal Medical Director Knowledge

System Infrastructure

- EMS System Design
- Dispatch Systems
- Interfacility Transports
- Legislation / Regulations
- State EMS Office
- EMS Personnel
- Finance Principles
- Air Medical Services



Clinical Oversight

- Medical Oversight
- Team Dynamics
- EMS Dispatch
- Radio Etiquette
- Political Dynamics
- Legal Issues
- Due Process
- Risk Management
- Research



Human Resources

- EMS Provider Education
- EMS Provider Wellness
- Occupational Injury
- Ambulance Safety
- Medical Surveillance
- Mentally Stressful Events
- Occupationally Acquired Infections

Extraordinary Events

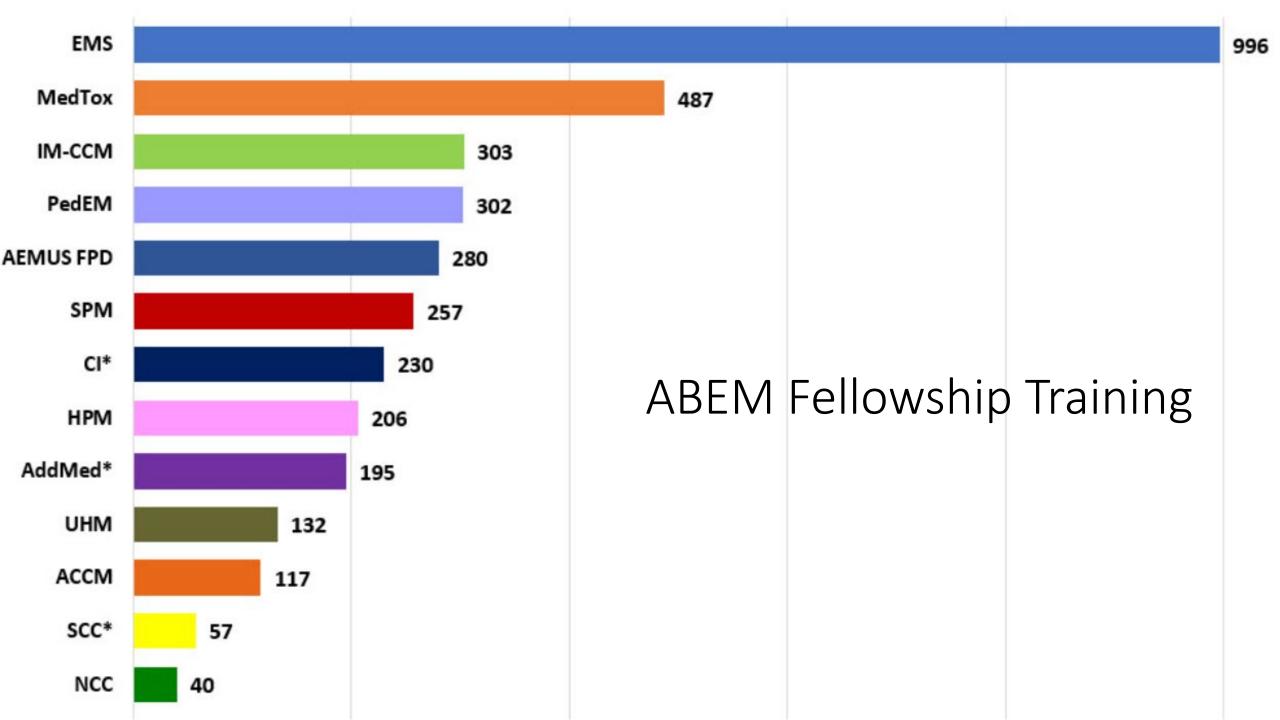
- Incident Command System
- Mass Gatherings
- Disaster Preparedness
- Federal Medical Response
- Triage Systems
- Mass Casualty Incidents
- Temporary Treatment Facilities



Special Operations

- HazMat
- WMD/Radiation Injuries
- Tactical EMS
- Fireground Operations
- Confined Space
- Wilderness
- Search and Rescue





Roles of a Modern EMS Medical Director

	Indirect vs Direct care	Protocol development	Dispatch Oversight	CQI - A&R	Skills verification	Credentialing
\ <u>\</u>	Remediation	Education	Field Response*	TEMS	Search and Rescue (USAR)	Wilderness Medicine
	Emerging technology	MCI planning	Special Events	Hospital Liaison	Operations Input	DEA / Narcotic orders
		Patient Complaints	Research	General Availability	Support / Debriefing	

Indirect Patient Care



Protocol Development



Base Hospital Guidelines



Phone / Radio Communication



SOPs



Education



CQI

Protocol Development

- Do No Harm
- Evidence Based
- Provider Input
- Annual Updates

Education

- Lectures
- On-scene
- Emergency Department

Credentialing

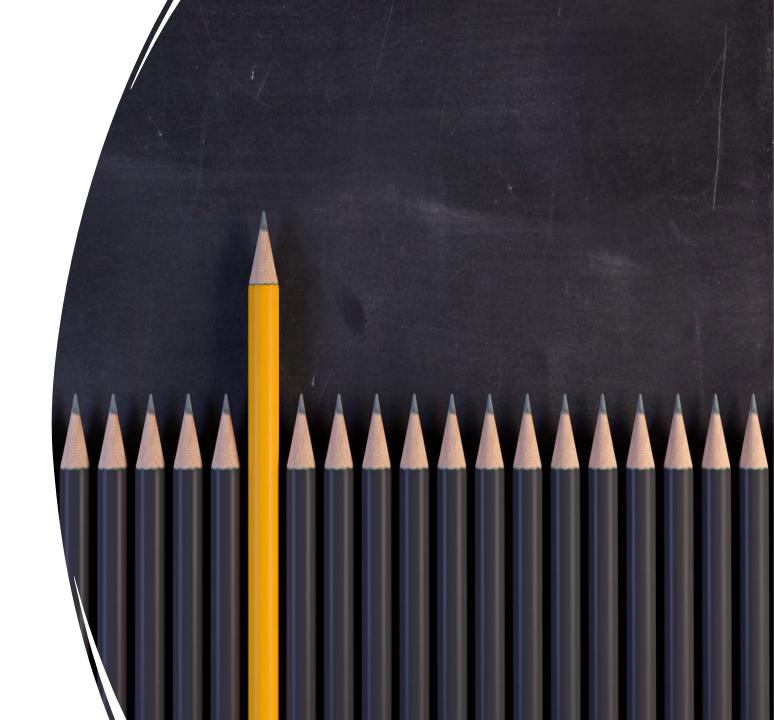
- Care Reviews
- In-Person Evaluation
- Skills Check-off

Remediation

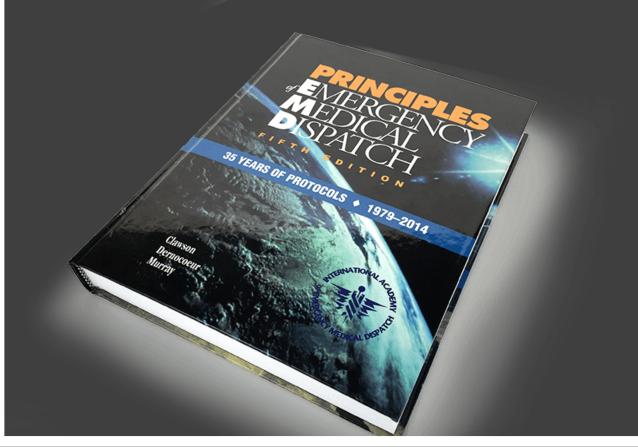
- Due Process
- Assume the Role

Continuous Quality Improvement

- System of checks and balances
- Allows EMS leaders to determine:
 - How care is being delivered,
 - If care is making a difference,
 - If processes are being followed







EMD Oversight





TEMS



EMS Physician Involvement

- Do we want more physician involvement in our system?
- If so, how do we justify the work/cost?
- What/who will make it successful?
- Is this the new standard of care?



Issues to Expect



Formally trained EMS physician has a higher expected operation status than a non-specialty Medical Director



FEMA and NAEMSP expect a physician in the field.







- Doc will steal all the procedures
- "Big Brother" is watching
- Doc will get in the way
- We'll get in trouble more often
- Patient care will change, doc doesn't follow protocols

Expert Opinion

"The field is the bedside for the EMS physician. Just as a surgeon needs an OR, the EMS Physician needs to be in the field. It's the only way to do the job right. - Dr. Jeffery Ho

"I'd recommend scene response as a primary method of QA/QI for EMS Medical Directors."

- Mark Lindquist, MD

"In 15 years I rarely performed a skill. I assist the EMS provider performing the skill. The rapport this builds with your team has no parallel and goes farther than any QA/CQA programs or lectures. Carry some bags for them and watch their respect for you grow which is critical to your success as a leader." - Bruce S. Ushkow, MD, MS, FACEP

FEMA

- Medical Directors should routinely participate in field responses, making first-hand contemporaneous patient care evaluations of the EMS system. This activity will help evaluate the agency's effectiveness and the quality of service being rendered to ill and injured patients.
- The Medical Director's on-scene observations and guidance on routine EMS responses will support a factual assessment of many aspects of service delivery, provide mentoring and coaching opportunities of EMS providers, and have the added benefit of demonstrating commitment to the EMS providers and agency leadership. Field exposure will also benefit the medical director in establishing initiatives that will advance the agency's performance, as well as provide evidence-based research opportunities in a clinical EMS system. Although direct field experience with providers may be time-intensive, it is one of the most valuable experiences for both medical directors and providers.





POSITION PAPER

PHYSICIAN MEDICAL DIRECTION IN EMS

Hector Alonso-Serra, MD, MPH, Donald Blanton, MS, MD, Robert E. O'Connor, MD, MPH

Modern EMS systems are designed to bring sophisticated emergency medical care to the patient's side. While contemporary EMS systems do not routinely utilize physicians to deliver care, the public expects to receive equivalent care provided by EMS personnel. As such, EMS systems require knowledgeable physician participation and supervision at every level. Active physician involvement in many EMS systems has brought needed improvements, but guidelines for a medical director's quali-

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Approved by the NAEMSP Board of Directers July 12, 1997. Received July 12, 1997; revision received July 15, 1997; accepted for publication July 16, 1997.

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fications, responsibilities, and au- . Familiar with local/regional thority continue to be refined.

The out-of-hospital mission is accomplished through varied approaches. Some systems are inclusive, with all system components (dispatch, first response, ALS care, and transport) housed within the same agency. Others consist of separate agencies within government; some involve cooperative interaction between public and private agencies. A physician may serve as medical director of the entire system or a specific segment. If medical direction is segmented, there must be close interaction between medical directors of the agencies that comprise the system.

The final influence, authority, and responsibilities of a medical director will depend on the specific system structure, the community's needs and resources, and multiple other variables. This document will help to assess needs, set priorities, and provide a focus for discussion. with administrators and government officials. This document reflects the National Association of EMS Physicians' position on the job duties of the EMS medical director, and is intended to help system administrators integrate medical direction throughout EMS system. It is anticipated that this will serve as a resource for EMS physicians in their leadership role.

Essential Qualifications

· Licensed to practice medicine or osteopathy

EMS activity

Desirable Qualifications

- · Board certification or board preparedness in emergency medicine (American Board of Emergency Medicine or American Board of Osteopathic Emergency Medicine)
- · Active clinical practice of emergency medicine
- · Completion of an EMS fellow-

Acceptable Qualifications

· Board certification or board preparedness in a clinical specialty, approved by the American Board of Medical Specialties or the American Osteopathic Asso-

Required Formal Training or Demonstrated Continuing Education Activity

- · Training or significant experience in the clinical practice of out-of hospital emergency medical services
- · Training or significant experience in the provision of direct (on-line) and indirect (off-line) medical direction
- · Knowledge of the design and operation of all components of EMS
- . Knowledge of the principles of emergency medical dispatch
- · Knowledge of federal, state, and

- Enhancing the education of EMS providers and quality of EMS care by offering real-time feedback at the scene or after.
- EMS Physicians bring experience, special tools, skills and medications to complicated situations, such as:
 - High-risk patient refusals
 - Combative patients, with additional sedation options
 - Assistance with release at scene of patients with minor conditions, both for everyday incidents as well as for mass casualty incidents and disasters
 - Fireground rehab and HazMat situations
 - Response to occupational exposures and injured providers
 - Assistance with critical care inter-facility transports
 - Back-up to ILS/BLS units



EMS Physician Scene Response Program

The UNM EMS Consortium Physician Field Response Program – a unique, state-approved EMS agency - provides emergency physician-level field response and support. While the majority of requests come from our partner agencies within the Greater Albuquerque Metropolitan Area, our EMS physicians may respond for mutual aid anywhere the State if requested, and available. Physicians respond in fully-equipped quick response vehicles to provide equipment and expertise not generally available to traditional EMS services, such as field amputation, ultrasound, rapid sequence intubation, video laryngoscopy, chemical extrication and sedation, blood products, etc. There is no charge to the requesting service or the patient.

Some Real Benefits

Enhancing the education of EMS providers and quality of EMS care by offering real-time feedback at the scene or after.

EMS Physicians bring experience, special tools, skills and medications to complicated situations, such as:

- High-risk patient refusals
- Combative patients, with additional sedation options
- Assistance with release at scene of patients with minor conditions, both for everyday incidents as well as for mass casualty incidents and disasters
- Fireground rehab and HazMat situations
- Response to occupational exposures and injured providers
- Assistance with critical care inter-facility transports
- Back-up to ILS/BLS units
- High Risk Skills/Procedures (<1%)

Why you should encourage you MD to be more active...

- Real time supervision and training at the bedside
- Improved knowledge and awareness of your system
- Direct Medical Control
- Advanced Scene Management (rare)
- Increased care capabilities (ultra rare)

Take Home Points



Medical Directors should be in the field

Ask questions if yours is not



Direct patient care is a **tiny** part

Can be impactful when it occurs



Every ALS agency needs a Medical Director

Should have real passion for EMS Medicine



My goal

Enable out-of-hospital clinicians to be competent, compassionate, and critically-thinking providers of emergency and non-emergency care

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