

# Medical First Response & The State of the Fire Service

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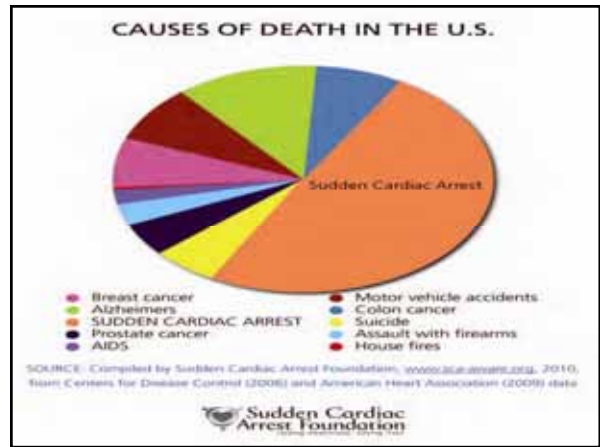


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## The Current State of the Fire Service



## Why is Fire trying to takeover EMS?




## Trend of the Fire Service

- 1977 Fire Department Fire Volume
  - 2,845,500 Total Fires
  - 1,036,500 Structure
  - 721,500 Residential Fires
- 2008 Fire Department Fire Volume
  - 1,451,500 Total Fires
  - 515,000 Structure
  - 403,500 Residential Fires



## What were the Fires in 2008

- 1,451,500 Total Fires (3320-d)
- 700,500 Outdoor (55-d)
- 515,000 Structure (2900-d)
  - 403,500 Residential (2780-d)
- 236,000 Vehicle (365-d)
- 84% of all deaths in Home



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- ## Biggest Impact?
- Public Education?
  - Smokey the Bear?
  - Inspections?
  - More Staff?

- ## Fire Fighters - USFA
- 1983 total firefighters 1,111,200
    - Career 226,600
    - Volunteer 884,600
  - 2007 total firefighters 1,148,800
    - Career 323,350
    - Volunteer 825,450
    - 46.8% over 40yrs old

- ## So What did It?
- People? Not so much
  - Engineering
  - Construction and Codes
  - Data & Design



- ## Objectives of the Day
- Determine what we know
  - Acknowledge what we do not know
  - Have the guts to admit the difference
  - Challenge you to take the next steps
  - Put the “Urgency” Back into Emergency
  - Try not to make you mad – but might
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## Where and When

- When did this First Responder thing start?
- Where did it start?
- Who Started it?



## History of First Responders

- 1500 B.C. - The Good Samaritan bound the injured traveler's wounds with oil and wine at the side of the road, and evidence of treatment protocols exist.**
- 1732 - The first recorded use of mouth-to-mouth ventilation, involving a coal miner in Dublin.**
- 1860's - Flying ambulances (dressing stations) were made to effect transport, and protocols dictated much of the treatment.**



## History of First Responders

- 1896 - The first major publication describing the resuscitation of near drowning victims.**
- 1922 - The first volunteer rescue squads organized in Roanoke, Virginia, and along the New Jersey coast.**
- 1926 - First Responder Calls begins in Phoenix Arizona**



## History of Transport Providers

- 1865 & 1869 - Civilian ambulance services in the United States began in Cincinnati and New York City, respectively. Hospital interns rode in horse drawn carriages designed specifically for transporting the sick and injured.**



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## Do You Agree?

- The 911 (PSAP) works
- It takes longer to "turn out" for a fire
- We don't know, so we send everything
- Response volume drives resources
- "Co-Responder" is more accurate
- It does not cost us anything to do that
- Training is a good thing, Right?



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## The Chicken and the Egg

- Do we know where we are?
- Before we measure it, we need to understand what it is.
- Before we improve it, we must measure it to determine which way we are going.



## Poll Questions

- Should we have first responders?
- Who should they be?
- How fast should they be?
- What should they do?



## Group Exercise

- Map a 911 call to first responders on the scene.
- How long should each segment be?
- How long are they really?



## 911 / Dispatch

- EMD
  - 66.9% use
    - Only 75.2% use protocol driven questions
- Accredited Centers?
  - 27%



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## Who Are The First Responders

- Top 200 City Survey
  - 93.7% is the Fire Department
  - 6.4% other
- The Others Places?



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## NFPA 1710

- 60 second dispatch time
- 60 second “Turn out time”
  - 60 EMS / 80 Fire Response
- 240 second drive time.
- Total 360 seconds for EMS



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### How are they doing?

- NFPA 1710 - Career
  - 63.4% use 1710 in Top 200
  - 27.7 are in compliance
- NFPA 1720 – Combo/Vol.
  - Based upon AHJ



### How Fast is Fast?

- 1979 Eisenberg 4 min.BLS / 10 min.ALS
- 1993 Singapore 4 min.BLS / 12 min.ALS
- 2004 Callans early access to Defibrillation
- Continuous CPR



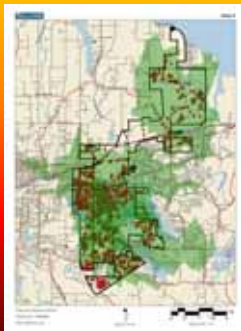
### What is this number?

- Seven minutes  
and Thirty-Four Seconds

### What you must measure

- Time of Call
- Time to dispatch first responder
- Time first responder is in route to call
- Time first responder is on the scene
- Time the transport unit is on the scene
- Time you are clear of the scene

### Your Response Zones



### Response Time KILLERS

- Local awareness
- Don't want speed, they may crash
- The Bath Room
- Lack of understanding of caregivers
- Failure to distinguish types of calls
- Company Training
- Apathy

### What Can Basic FR's Do?

- CPR – 100%
- Oxygen – 99.4%
- Aspirin – 46.8%
- AED – 93.6%
- EOA – 34%
- Start IV – 26.3%

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### Lesson Number One

- Getting to the scene quickly is important – Don't listen to the so called experts

### I Have a Dream

- 911 call is answered and processed in 60 seconds.
- First Responders are notified and rolling in 60 seconds.
- First Responders arrive on the scene in 240 seconds from roll time.
- The patient lives

### What Should You Do With Your First Responders?

- Develop a timeline for survival.
  - 911 Call → Transport
- List of what each segment must do.
- List of how quickly they need to be.
- Justify the resources.

### How to Supplement the Response

- Community CPR
- Get the cops involved
- Local business
- Farmers
- EMS Pre-planning
- Education of the public

### Our Focus?

- Urgency back into Emergency
- Articulate the "New" mission
- Design system to be ready at all times
- System approach to response
- Spend our dollars on what matters

## Medical First Response & The State of the Fire Service

### Why Are You a First Responder?

- It's not about you, it's about them!
- Make a difference!
- Unrelenting passion
- Every call matters, not just the "good" ones



### Thank-You for Your Time

Additional questions can be forwarded to presenter for personal responses.

Send questions to:

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