# National Fire Protection Association Association Document 1710: Threat or Menace?







#### **Presentation Format**

- Lucid, evidence-based propositions
- Random, incisive, unanswerable insults of opponent (AKA "the student")
- Occasional, justified, self aggrandizement (AKA "the teacher")
- No use of tacky clichés e.g., "ignorant slut"
- Summary of the rhetorical beatdown I issued him
- Old favorites from past Eagles meetings



### Debating Dr Fowler





## What is the National Fire Protection Association?

- A trade association that creates and maintains private, copy written, standards and codes for usage and adoption by local governments.
- Mission: Reduce the burden of fire and other hazards on the quality of life by providing and advocating consensus codes and standards, research, training, and education.
- NFPA develops, publishes, and disseminates more than 300 consensus codes and standards intended to minimize the possibility and effects of fire and other risks.
- NFPA uses a "panel of experts" consensus approach



# FOWLER RESPONSE VEHICLE





#### NFPA 1710

Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments

2010 Edition



#### Time Standards

department's EMS for providing a first responder with AED shall be deployed to provide for the arrival of a first responder with AED company within a 240-second travel time (4 mins) to 90 percent of the incidents as established in Chapter 4.

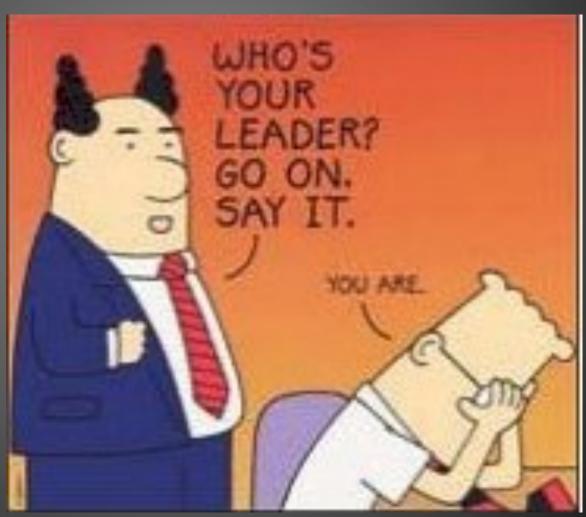
5.3.3.3 When provided, the fire department's EMS for providing ALS shall be deployed to provide for the arrival of an ALS company within a 480-second travel time (8 min) to 90 percent of the incidents provided a first responder with AED or BLS unit arrived in 240 seconds or less travel time as established in Chapter 4



## WHERE DID THESE NUMBERS COME FROM?



### Drs Pepe and Fowler





Mickey Eisenberg et al Paramedic Programs and Out-of-Hospital Cardiac Arrest: Factors Associated with Successful Resuscitation Am. J. Public Health 69:30-38,

"If CPR was initiated within four minutes of collapse, 40 per cent of patients were admitted and if CPR took four or more minutes to initiate, 18 per cent were admitted (p < .01); 28 per cent and 7 per cent respectively were discharged (p < .01).\*

\*Stratification at less than four minutes and four minutes or more was chosen because it resulted in the greatest difference in outcome. "

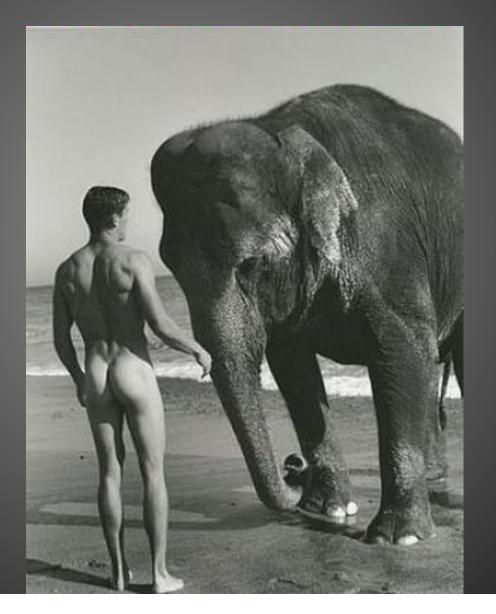


W, DOUGLAS WEAVER et al Factors Influencing Survival After Out-of-Hospital Cardiac Arrest *J Am Coll Cardiol* 1986;7:752-7

"First, cardiopulmonary resuscitation was initiated sooner in survivors (3.6  $\pm$  2.5 versus 4.3  $\pm$  3.3 minutes; p = 0.03), and second, the initial defibrillation was attempted earlier in survivors (6.1  $\pm$  3 versus 7.3  $\pm$  4.2 minutes; p < 0.02)."



### Does It Pick Up Peanuts?





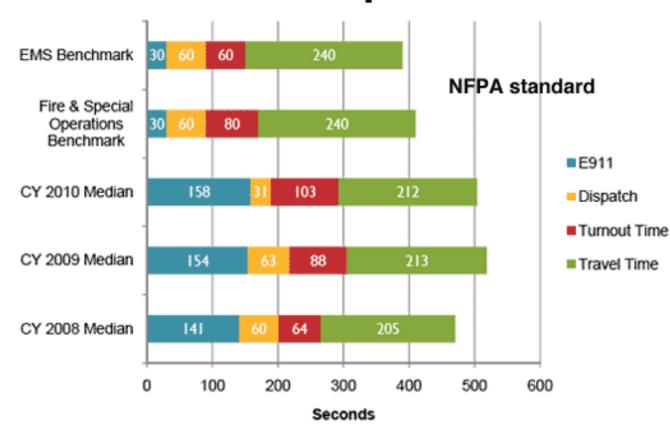
#### Time Standards

department's EMS for providing a first responder with AED shall be deployed to provide for the arrival of a first responder with AED company within a 240-second travel time (4 mins) to 90 percent of the incidents as established in Chapter 4.

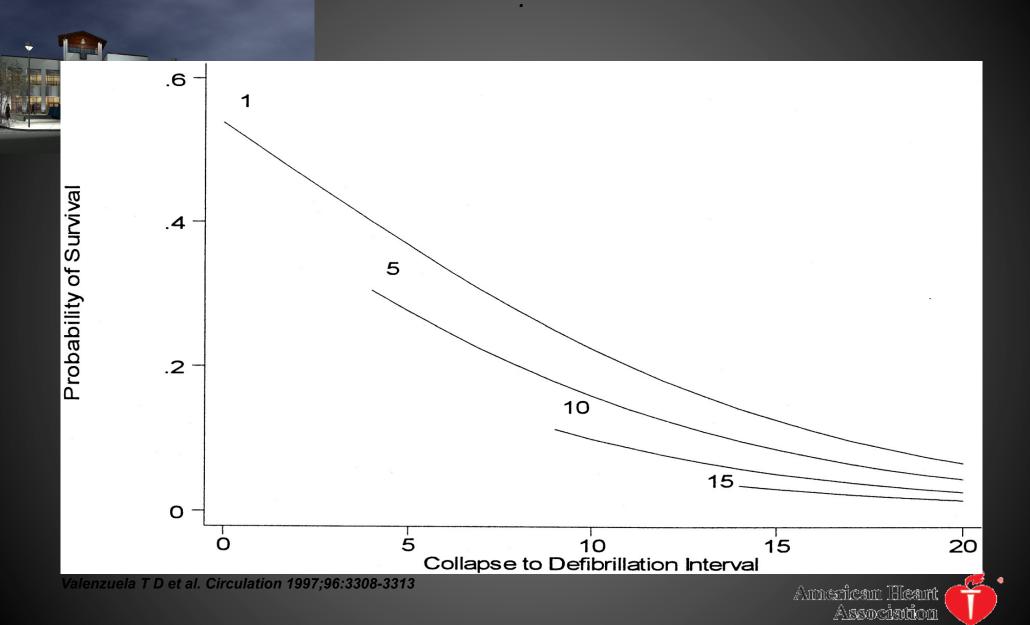
5.3.3.3 When provided, the fire department's EMS for providing ALS shall be deployed to provide for the arrival of an ALS company within a 480-second travel time (8 min) to 90 percent of the incidents provided a first responder with AED or BLS unit arrived in 240 seconds or less travel time as established in Chapter 4



#### **Atlanta Fire Response Times**



Source: EMBRS data, calendar years 2008 through 2010



Learn and Live

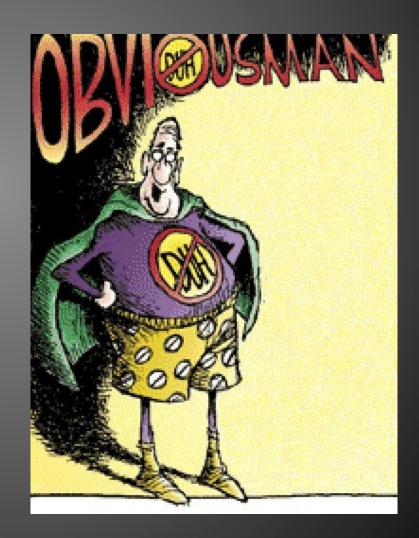
### TERENCE D. VALENZUELA, M.D., OUTCOMES OF RAPID DEFIBRILLATION BY SECURITY OFFICERS AFTER CARDIAC ARREST IN CASINOS N Engl J Med 2000;343:1206-9.

CHARACTERISTIC	ALL CARDIAC ARRESTS (N= 148)	WITNESSED ARRESTS WITH AN INITIAL RHYTHM OF VENTRICULAR FIBRILLATION (N=90)
Age — yr	64±12	65±11
Male sex — %	80	84
CPR administered before arrival of defibrillator — no. (%)	63 (43)	49 (54)
Interval from collapse to CPR — min	<u>-</u> †	$2.9 \pm 2.8$
Initial rhythm of ventricular fibrillation — no. (%)	105 (71)	90 (100)
Interval from collapse to attachment of defibrillator — min	f —†	$3.5 \pm 2.9$
Interval from collapse to first defibrilla tion — min	- —†	4.4±2.9
Interval from collapse to arrival of para medics — min		9.8±4.3
Survival to discharge from hospital — no. (%)	56 (38)	53 (59)



## Reasons not to Implement NFPA 1710

- The evidence base for any standard must be explicit
- Improvement in any outcome cannot be estimated





## Reasons not to Implement NFPA 1710

- Secular trends now permit BLS personnel to work out-of-hospital cardiac arrest and other high acuity cases
- Solutions will be determined by local conditions





## Reasons not to Implement NFPA 1710

Unfortunately, feasibility matters





# Summary of Dr Fowler's position on this issue







#### **Gratuitous Fowler Abuse:**

"How can you breathe through that little thing?"





### **Old Favorites**



