Our Next Speaker:

Professor of Medicine, Surgery, Public Health and Chairman of Emergency Medicine at *UT Southwestern* and *Parkland Hospital*

Director, *City of Dallas* Med Emergency Services for Public Safety, Public Health & Homeland Security

Medical Director, Dallas Area *Metropolitan Medical Response System* for Counter-Terrorism and Disaster Mitigation

Medical Director, Dallas Area *BioTel* (911- EMS) System

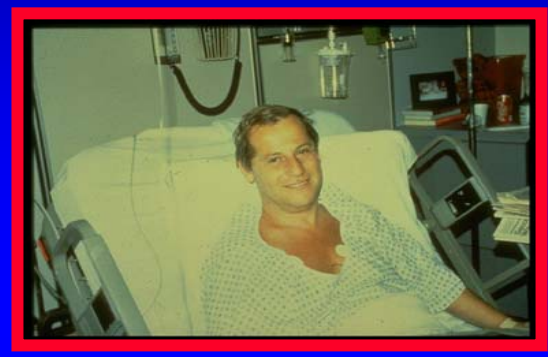
Improving the *Chain of Survival* in Our Community

Paul E. Pepe, MD, MPH

Director, City of Dallas Medical Emergency Services
for Public Safety, Public Health and Homeland Security;

or...

Making Dallas



…the Safest Place

to Have Your Critical Injury

…or Heart Attack (Part I)

Like Most Veterinary Students…

…Doreen Breezes Thru Chapter 9

Not to Bury the Headline…

One of Every 5 Persons Who Die Today…

Will Die From Sudden Death Syndrome….

250,000

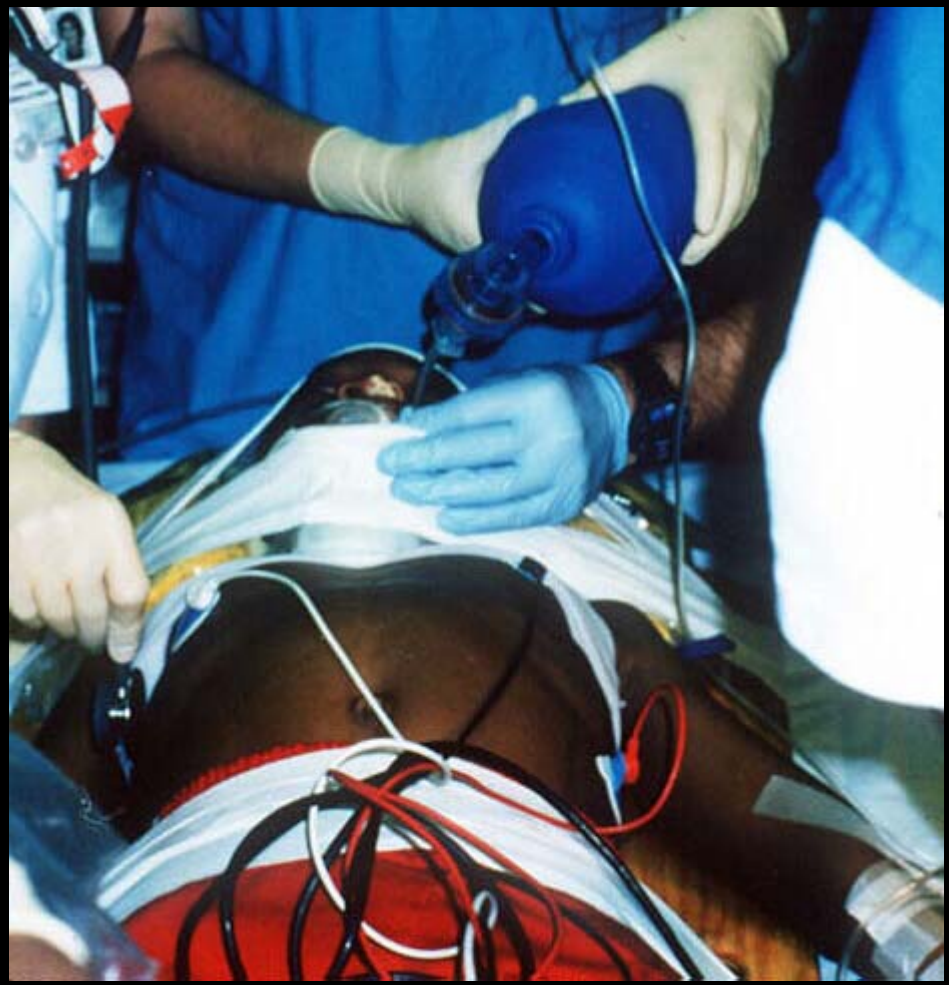
Persons a Year

in the U.S. alone

700 lost a day!

(40% Women)

And in Dallas Alone….



...That's 2 to 3 Lives Lost Each Day

And It's an Equal Opportunity Killer….

Even Children, Especially Young Athletes

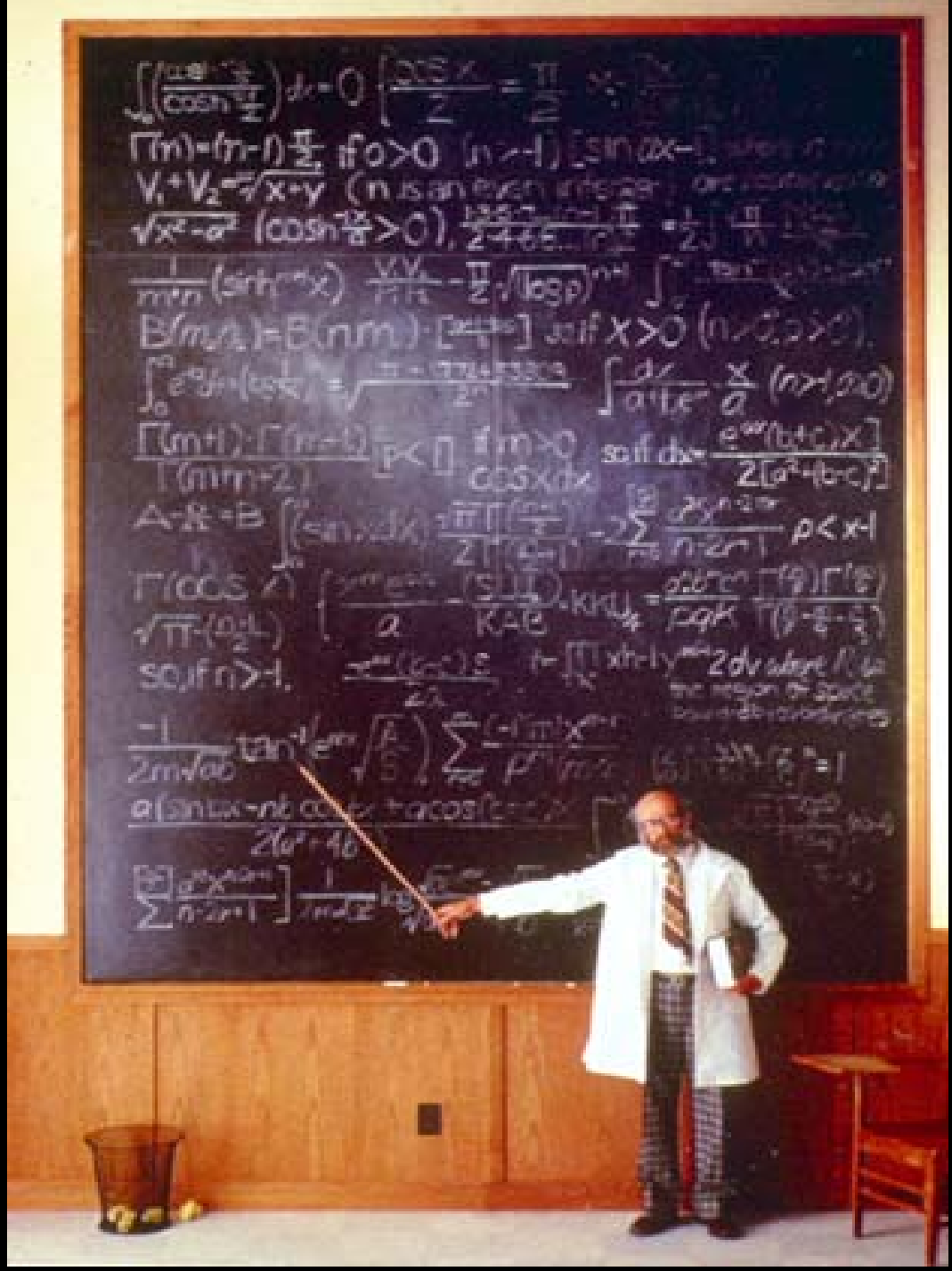
So It's Time to …

…Challenge the Status Quo

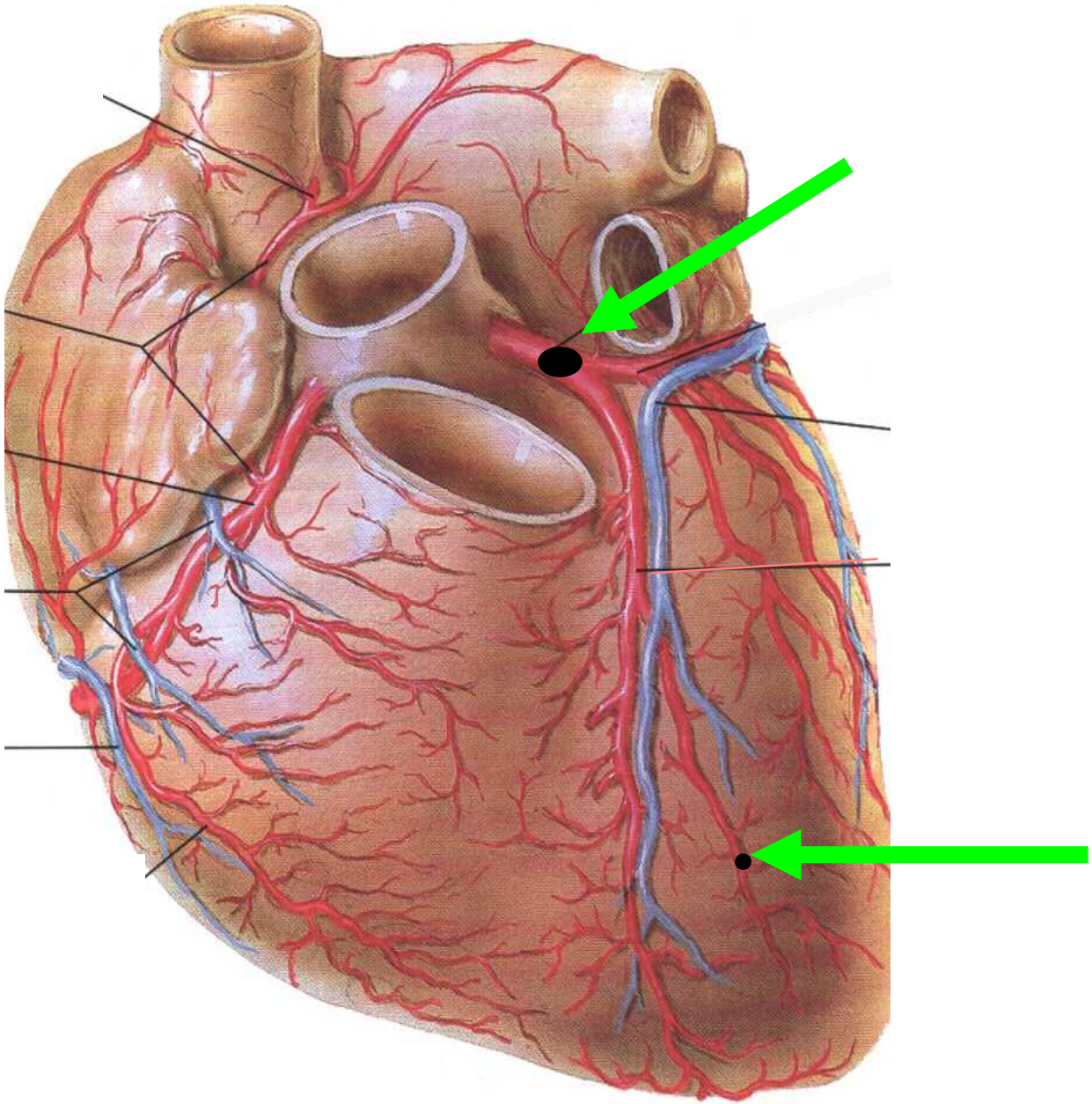
…We All Need to Learn How to "Raise the Dead"

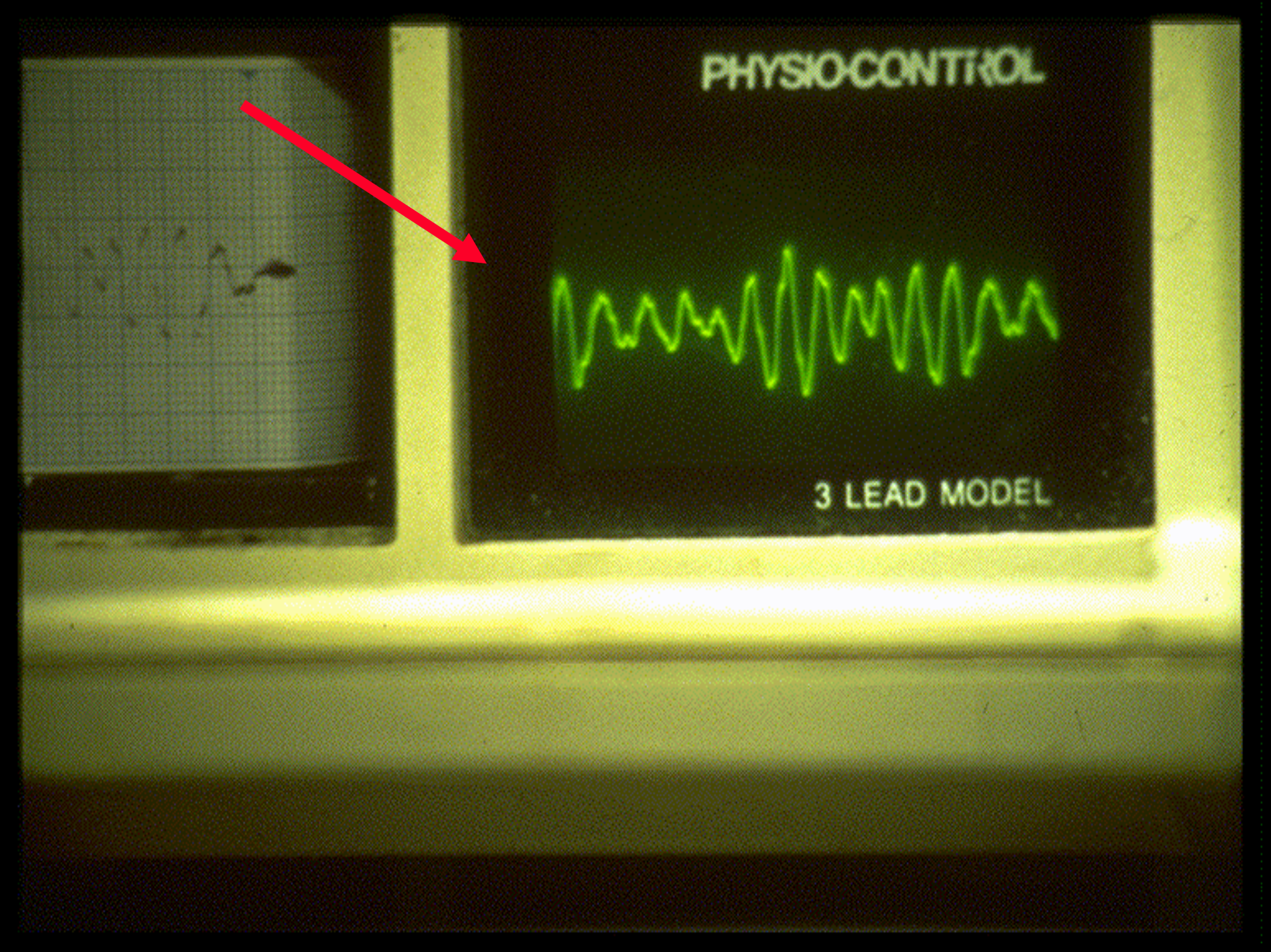
Deja Vu

…all over again



So What Causes Sudden Death?

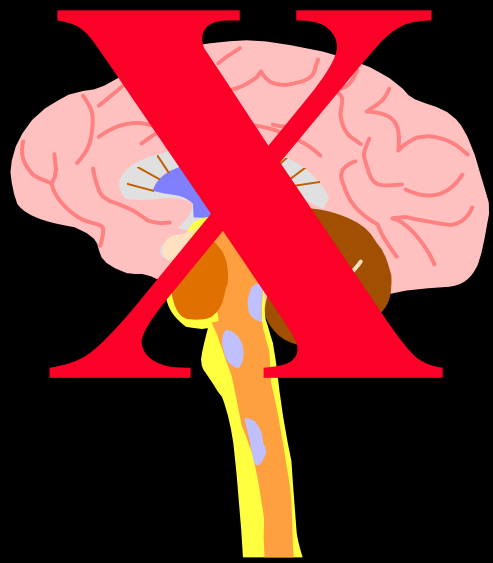



PHYSIO-CONTROL
3 LEAD MODEL

Sudden Death Syndrome

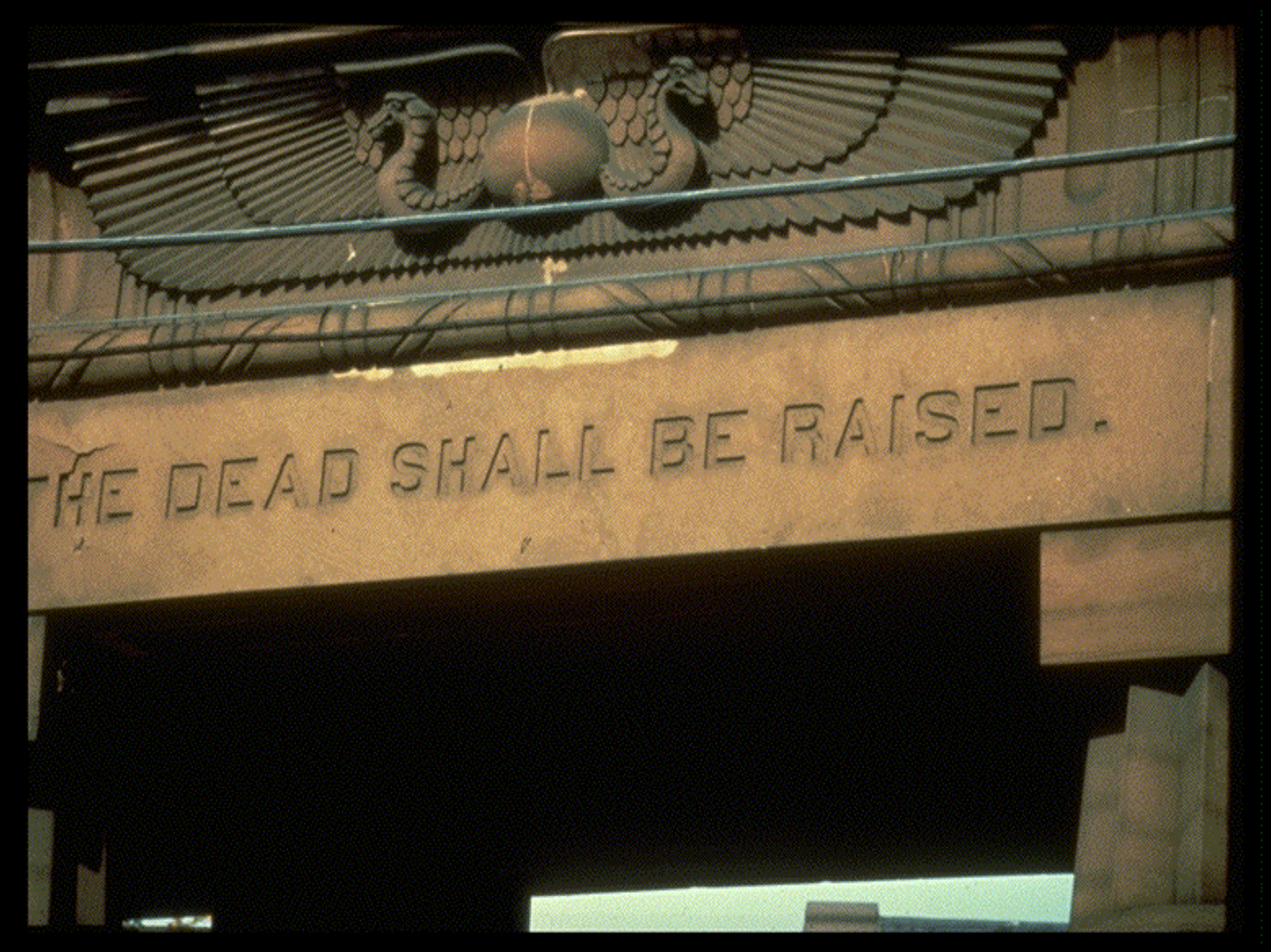
…Overall Greatest Cause of Premature Death

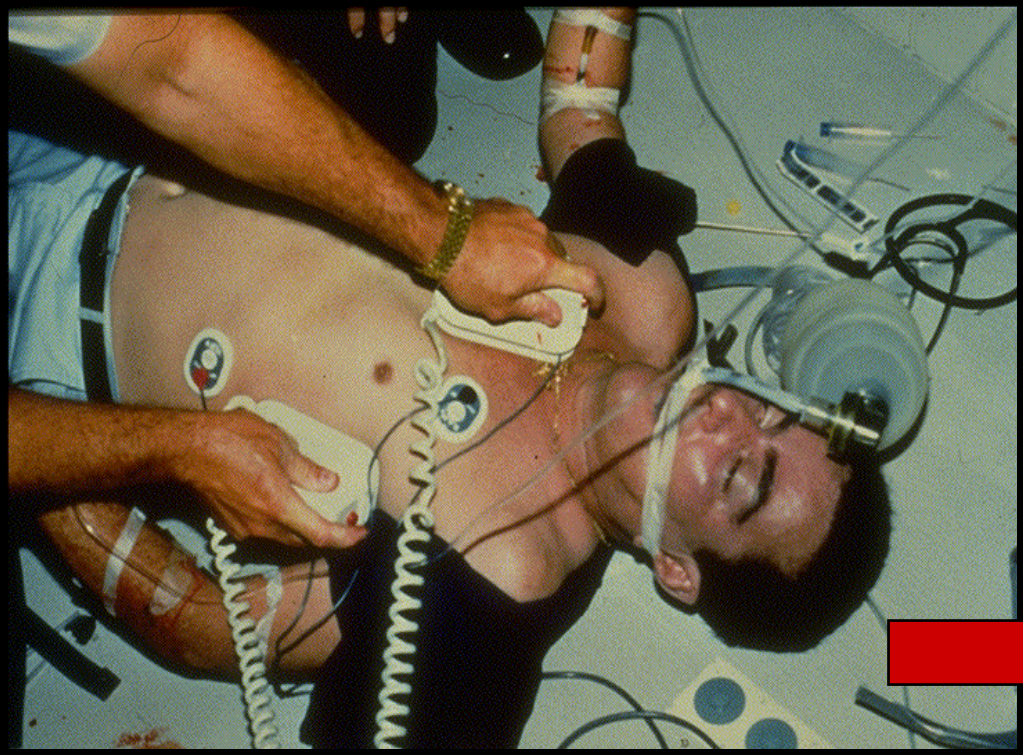
Permanent Brain Damage Will Occur

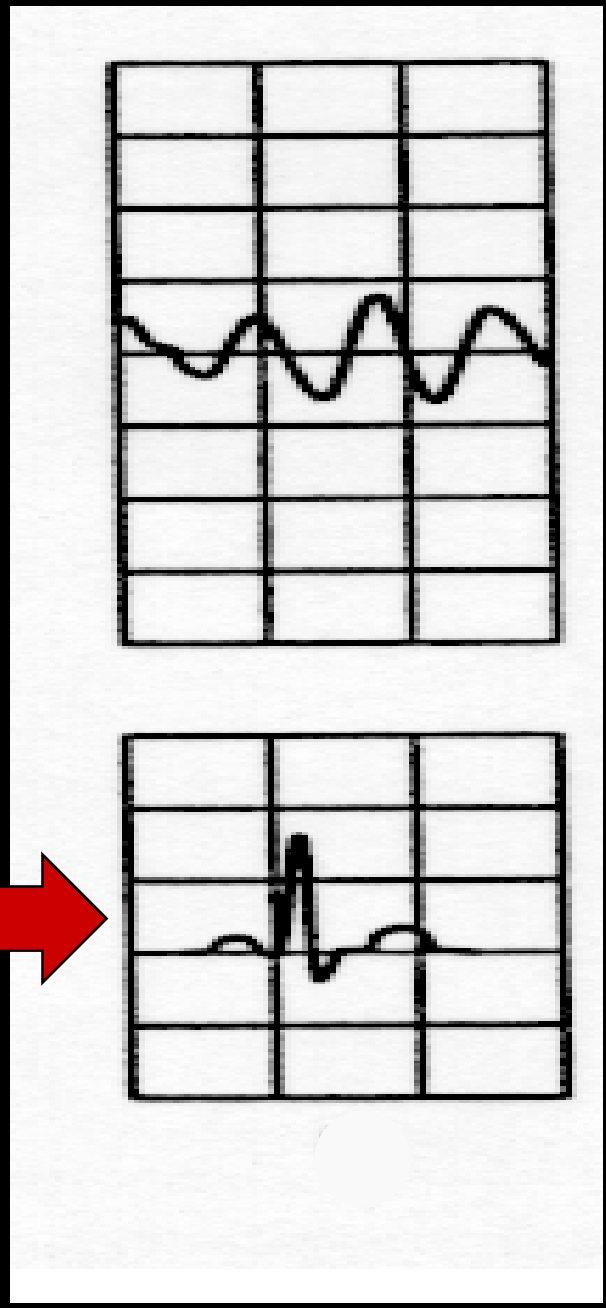


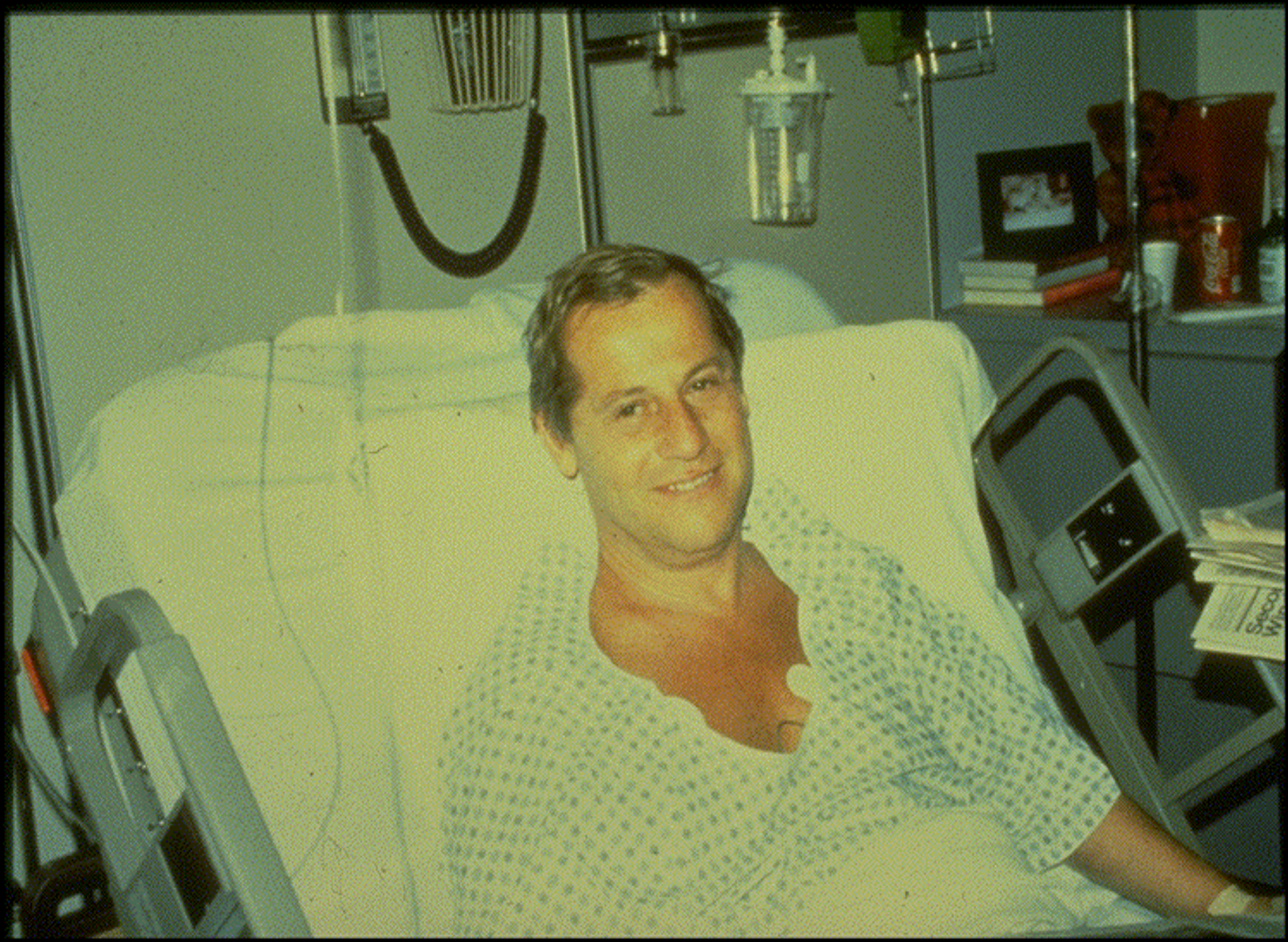
….In Just a Few Minutes

But….


THE DEAD SHALL BE RAISED.



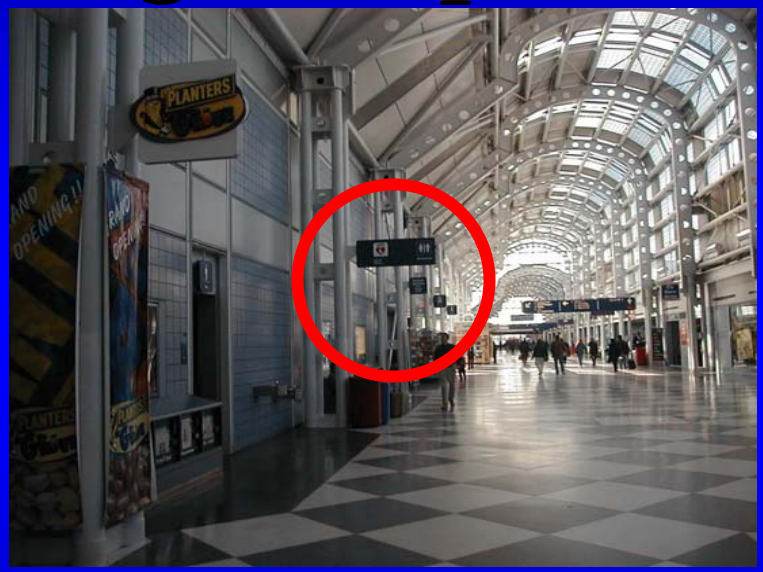




Now We Have AEDs !!

Defibrillation By the Public:

The Chicago Airport Experience



Sherry Caffrey, EMT-P

Paula Willoughby, DO

Paul E. Pepe, M.D.

AED

Chicago Airport

1st Year's Experience:

Of 9 VF Cases, Without Delay...

- ***All 9 (100%) Saved***
- ***Waking Before EMS***
- ***None of the 6 Key Rescuers Had Ever Seen an AED***

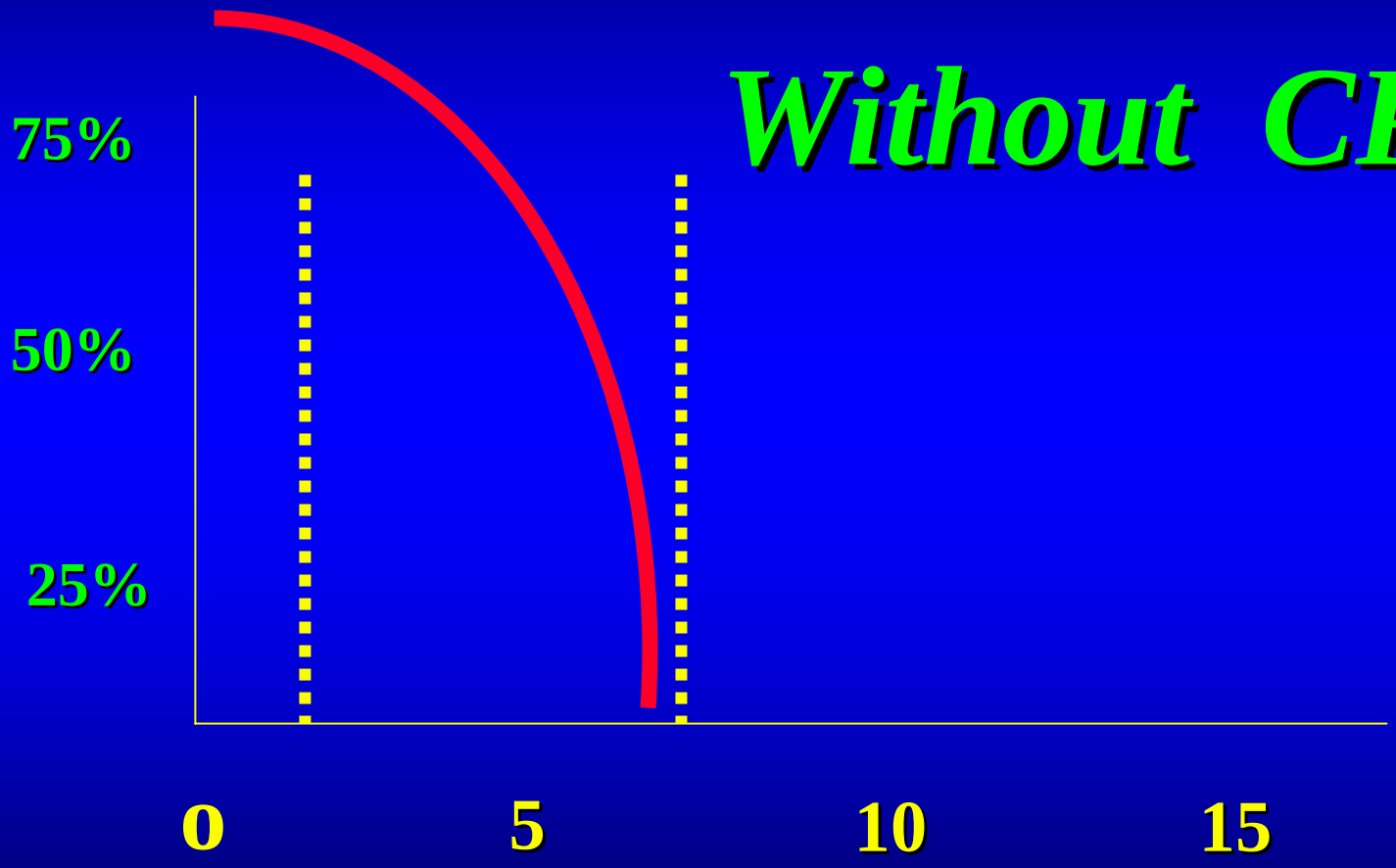
But…

Most Cardiac Arrests Happen at Home

Call 9-1-1 !!

E7
FIRE DEPT

VFib Survival Rates



Despite Universal Use of Paramedics…

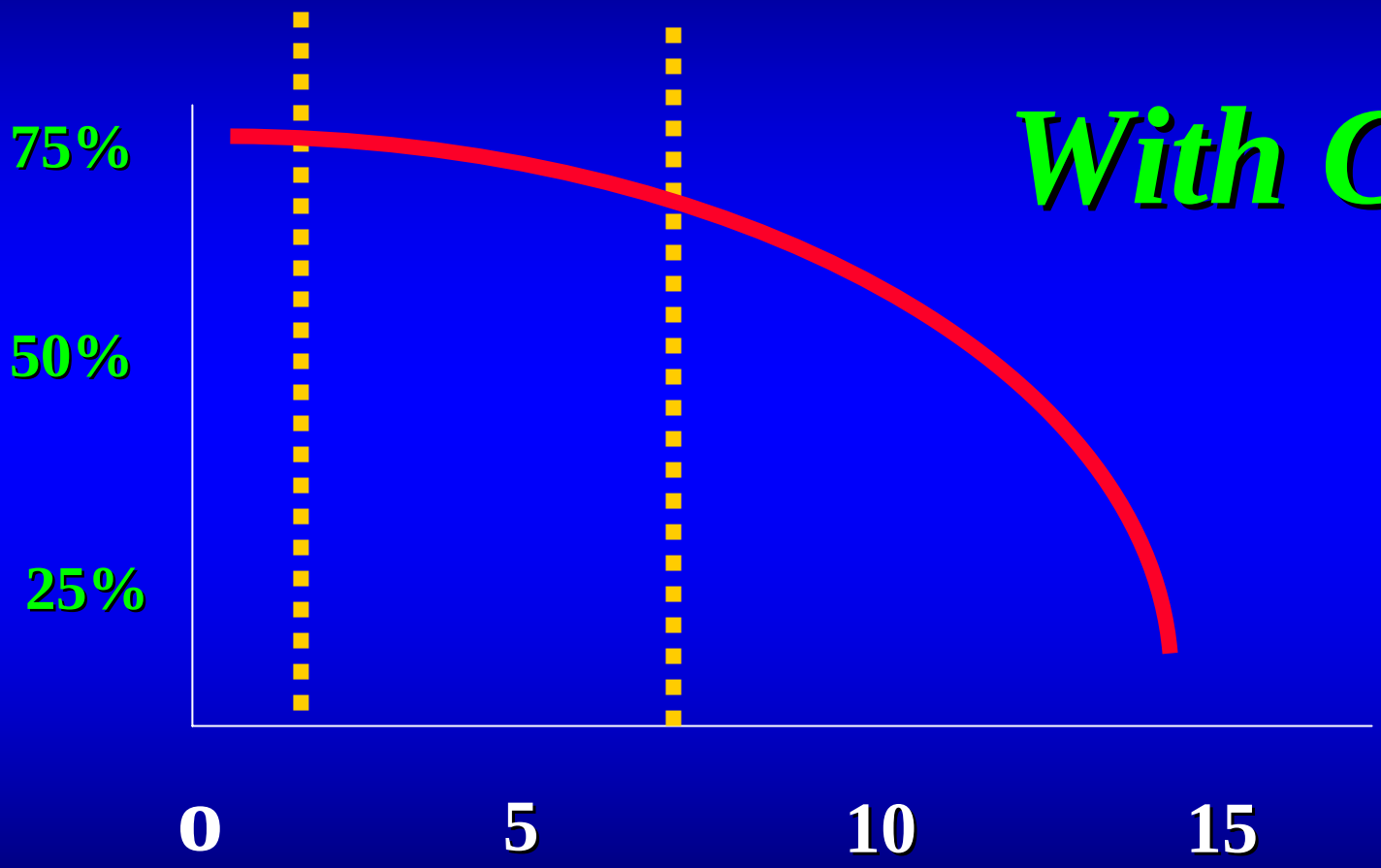
…Survival Rates Remain Low

However….

Precious Life-Saving Time Can Be Bought with Something Very Cheap…

…Basic CPR

Survival Rates



Early Interest in Mouth-to-Mouth ...

Seattle CPR Program

- Trained All School Children Beginning in the Mid 7O's
- 200,000 Trained by 1982
- Today, CPR ~ 60% of Cases

Survival with Bystander CPR

If Bystander Witnesses and Performed CPR...

...>40% Survived

THE REAL DUMMIES NEVER BOTHER TO TAKE CPR.

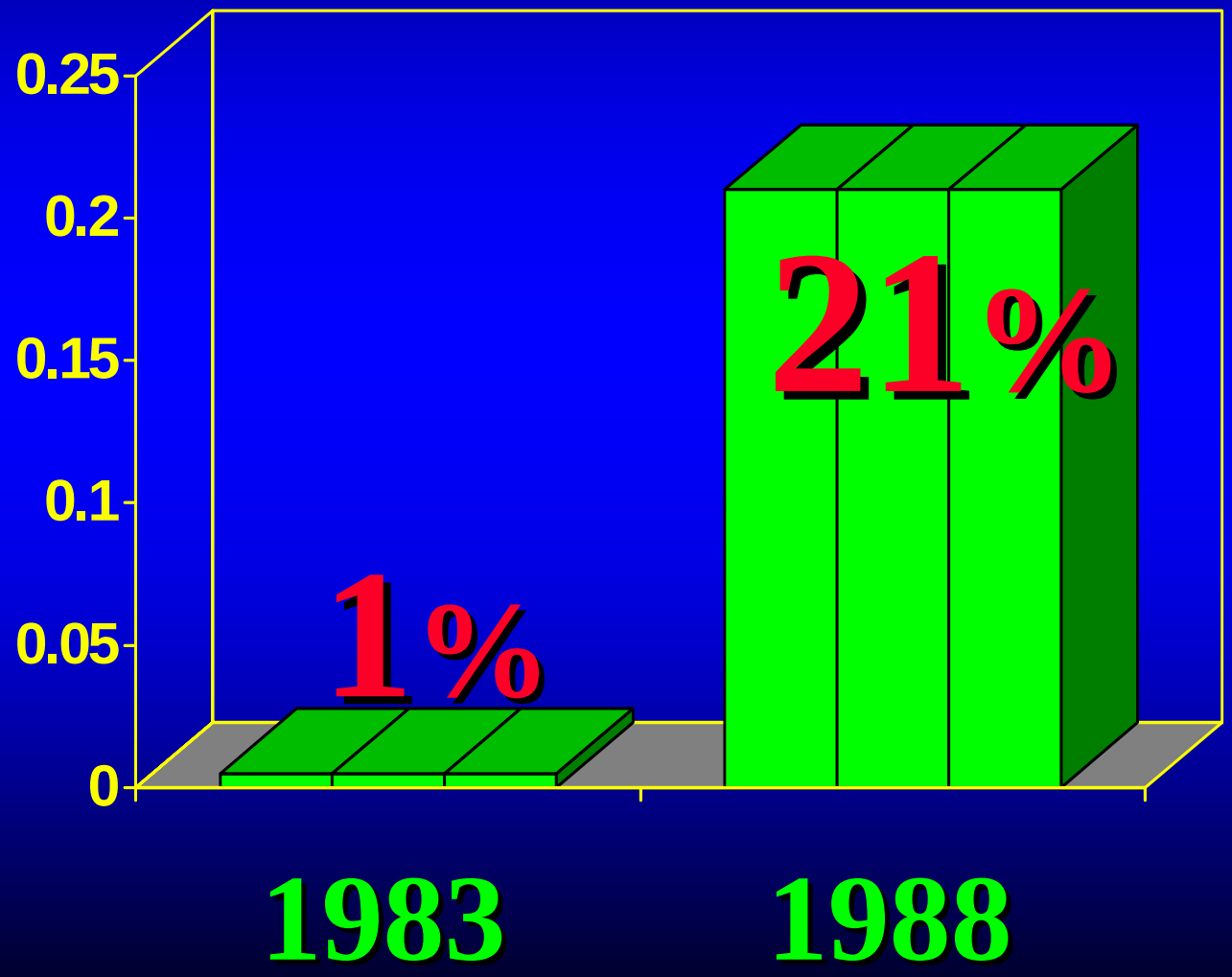
Taking a Red Cross CPR class is one of the smartest things you'll ever do. Because by practicing life-saving CPR on dummies, you'll learn how to save real people's lives. Maybe the life of someone you love. Take CPR. Call the Red Cross.

Houston…

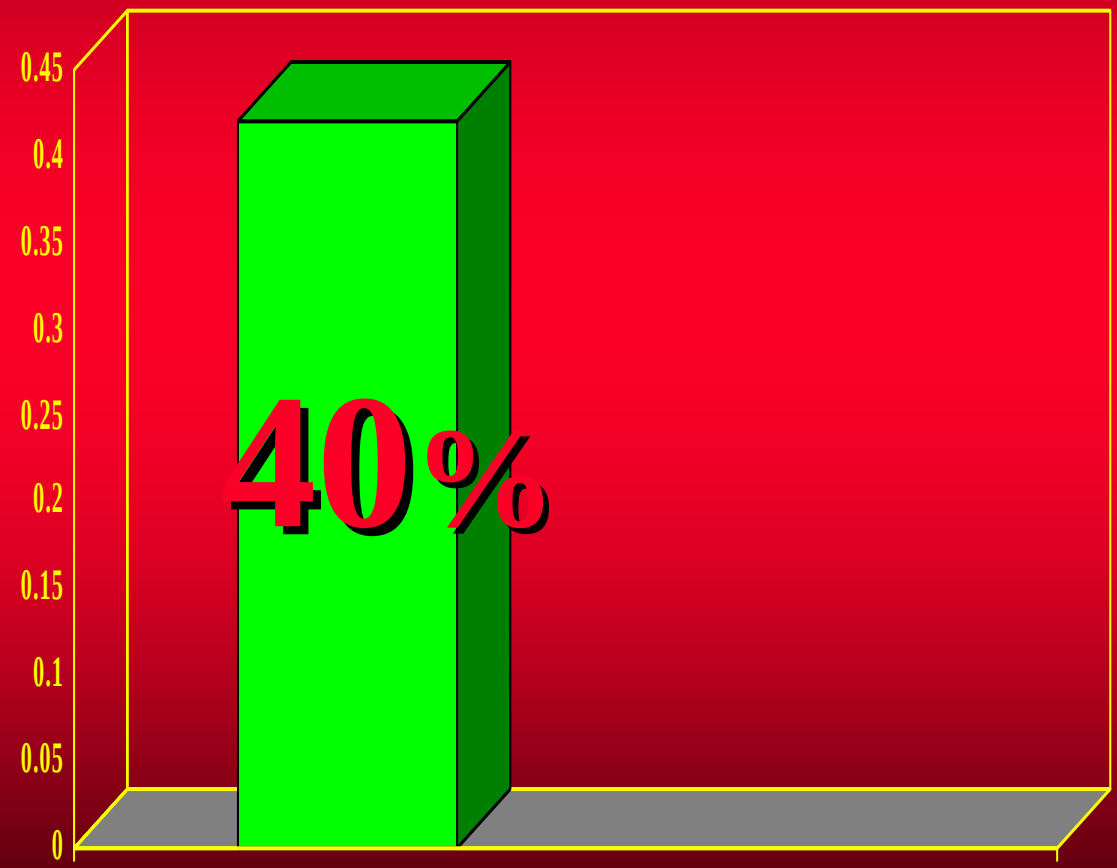
Negligible Survival Rates

Sudden Death Survival

in Houston, Texas



Bystander CPR and Sudden Death Survival



With Bystander CPR

But….

Annually…

…in this State...

More than 5,000 Texans Die Needlessly

Because Loved Ones and Friends Stood By Helplessly...

...Not Knowing How to Do CPR

Widespread

CPR Training

Need Captured Audiences!

Mayor Pro Tem Don Hill

CD 30

Standard 3 to 4 Hour Course…

…*vs.* 30 min CPR-AED Course

Time = 5 min: ***"Please Watch this Video"***

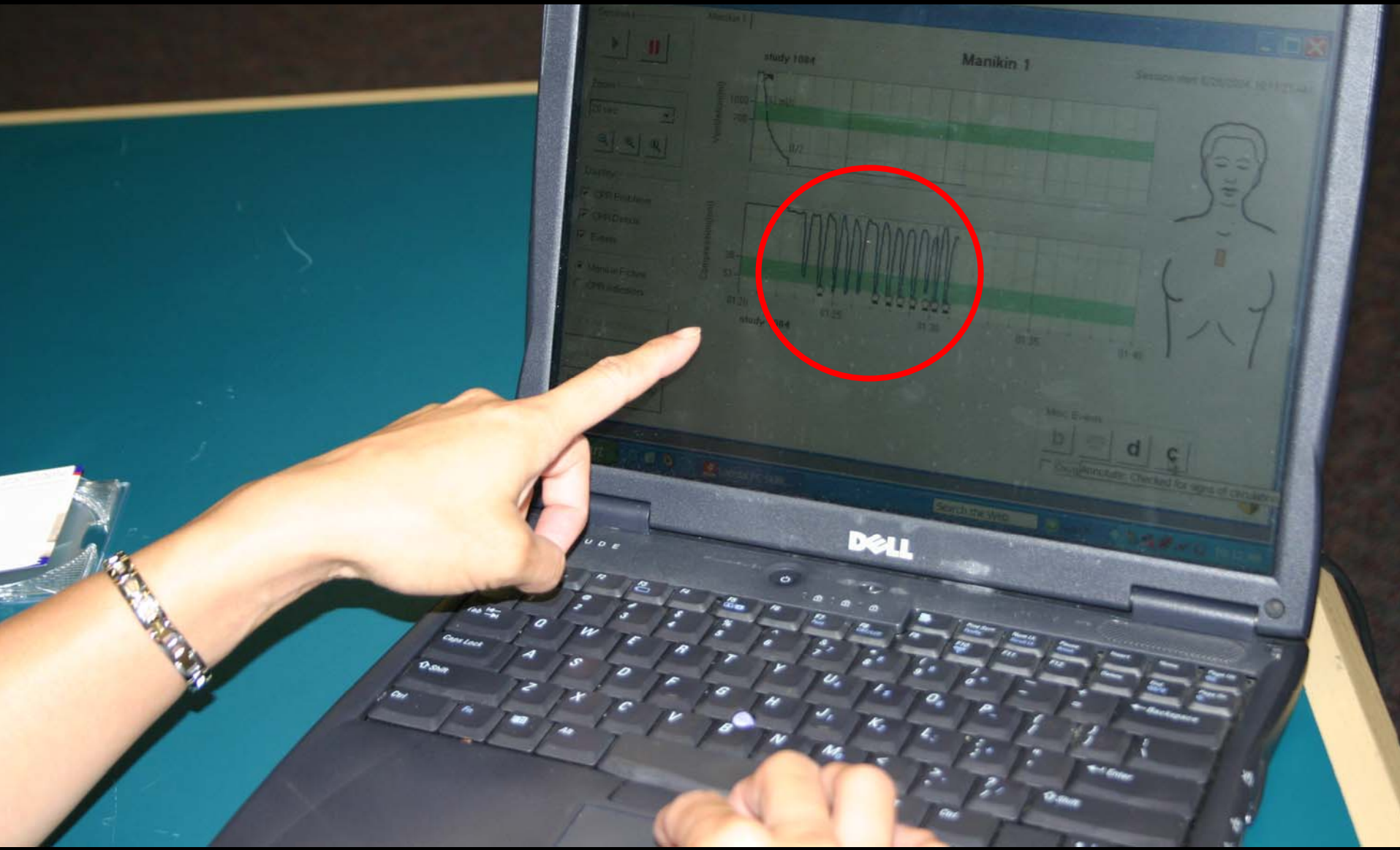
Time 7 min: *…Practicing Chest Compressions*

Time 10 min: ***…integrating rescue breaths***

Time 25 Min: ***"Let's talk about AEDs"***

Video: Performances Evaluated Later By Blinded Examiners

Measured and Recorded on the Computers:



Conclusion

- **The 29-Minute CPR / Choking / AED Course was at Least as Effective as the 4-hr *HeartSaver AED*© Course**

- **6 Months *after* Training, Skill Retention was the Same for Both Groups !**

…Why Not Teach Every City Employee as an Example ?

And Empower Them with Lifesaving ?

Evolving National Priorities…..

Resuscitation Research Funding for Cardiac and Trauma Cases

National Institutes of Health

Resuscitation Outcomes Consortium

National Heart, Lung, and Blood Institute

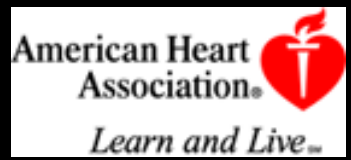
National Institute for Neurological Disorders and Stroke

Canadian Institutes of Health Research

U.S. Department of Defense

Defence Research and Development Canada

American Heart Association

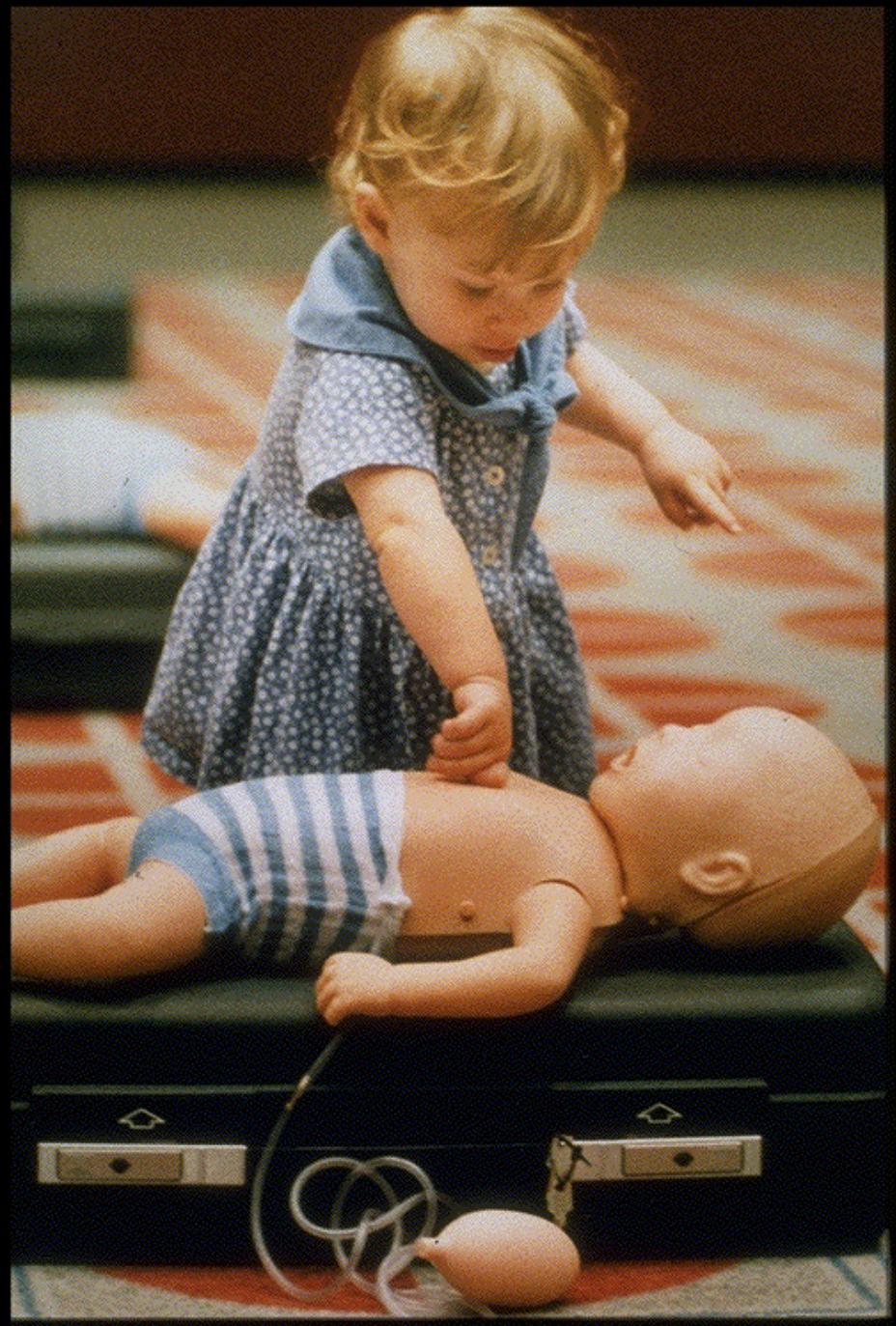


Heart and Stroke Foundation of Canada

Among > 100 Highly Competitive City-University Partnerships that Applied…

- **The Dallas Area *BioTel* System (City of Dallas) was 1 of only 7 Major U.S. City Sites Chosen**
- **Dallas Now Designated a Center of Excellence for Resuscitation Medicine and Research**
- **Means Unique Federal Funding for Training, New Life-Saving Equipment, Data Collection and Additional Medical Oversight**
- **And Did I Mention --- *That Life-Saving Effect !***

My Suggestions...



Recommendations

- **Support CPR-AED Training**

  into Our School Systems

- **Promote Public Defibrillation --**

  City Officials Should Lead

- **Hotels, Arenas, Corporations --**

  Can Provide an Example

Recommendations

(cont.)

and Finally...

- **Promote Research Initiatives --**

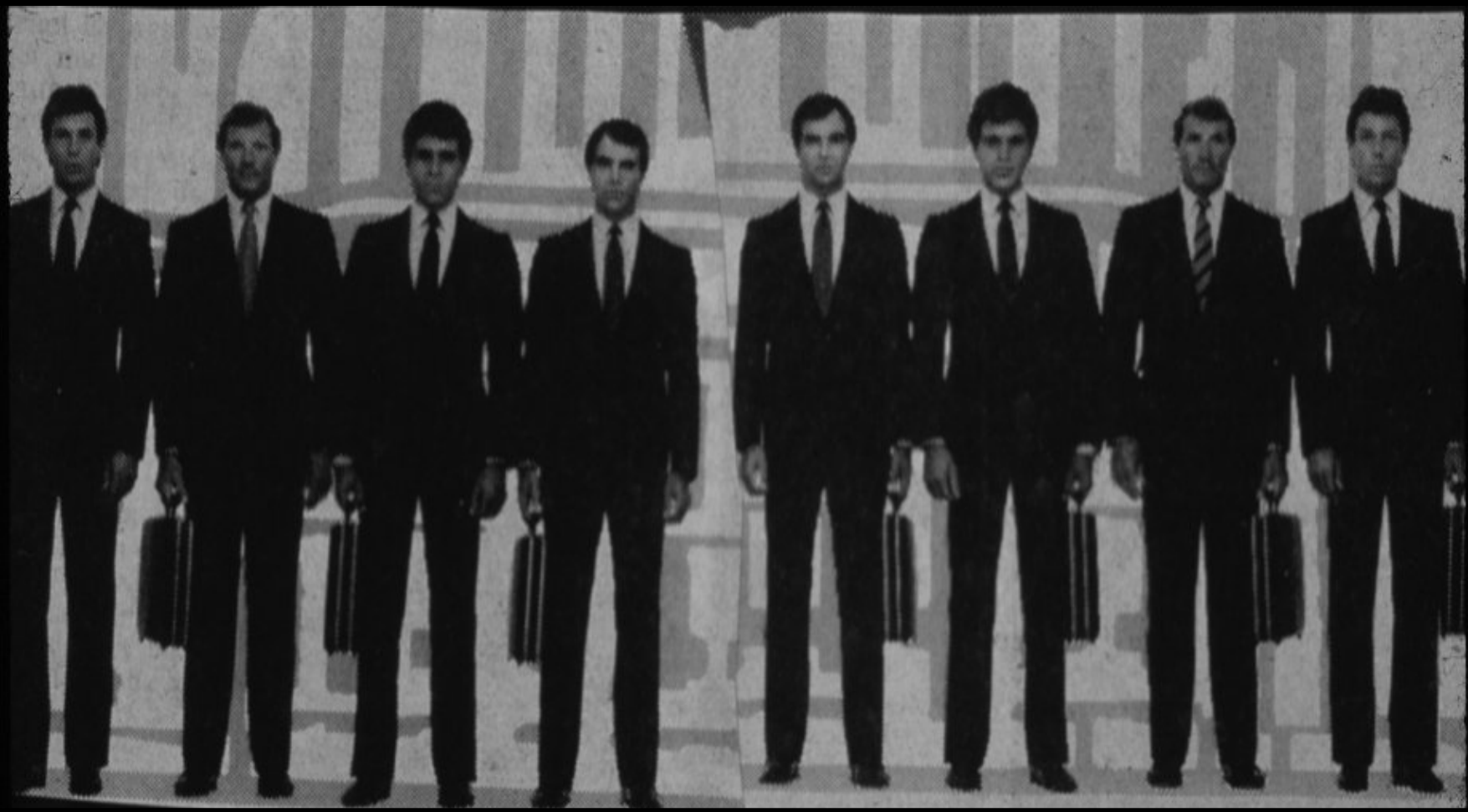
Make Your Community the Medical Leader

On the Road to the 22nd Century...

Not Only Make Life Better….

…..for Future Generations !!!

It's Good Business Too...



Thank You !!