

Or, "Crisis is Danger Mixed With Opportunity"

# Who Are We in EMS Really?



#### Paramedic

- Out-of-hospital practitioner
- Part doctor
- Part nurse
- Part rescue
- Hazmat, MCI, disaster

### Paramedic

A "fully-arrived",
fully-partnered,
member of the emergency
medicine and emergency
response community

### Prehospital Emergency Care



The newest member of the House of Medicine

### EMS Training vs. Reality

- Not enough OR training time, if at all
- Infrequent use in the field of ETI
- MUCH MORE "on-the-job training" needed
- To be able to pass a tube when a tube is really needed

### "OJT" is Reality

"Rescuer procedural experience is associated with improved patient survival after out-of-hospital tracheal intubation of cardiac arrest and medical non-arrest patients."

Out of Hospital Endotracheal Intubation Experience and Patient Outcomes. Wang, Yealy, et al. Annals of Emergency Medicine, 6/2010

### Paramedic Quality Care

- Must be a commitment to skills training
- Must include
  - Physical Assessment
  - Pharmacology
  - Advanced Care Technical Skills

#### Paramedic Ethical Behavior

Is this an oxymoron?

Or....is it not?

### Paramedic Ethical Behavior

Can we depend upon EMS personnel to act ethically?

Do all medics have ethics?

### What is the Theoretical Maximum?

Paramedics Must Be Some of the Best Airway Experts in the World!

#### When Do We Intubate?

- Cardiac Arrest
- Low GCS Conditions including trauma
- Compromised airway

# What have been the REAL PROBLEMS with ETI?

Airway Trauma
Prolonged Hypoxia
Management Problems

### So, the Slovis "5": Reasons to Intubate in C.A. #1

- Since only 30% survive CA, are we going to take away practice on the 70%? HMMMMMMM???
- Isn't this a better way to measure pulmonary compliance?
- Since "pounding" on the chest seems to be the norm, isn't it better to have a "pre-trauma airway?

### The Slovis "5": Reasons to Intubate in C.A. #2

- From a family pleaser standpoint, isn't it better to get the tube in BEFORE the patient dies?
- We won't have to listen to Corey <u>BITCH</u> about using paralytics to intubate!!





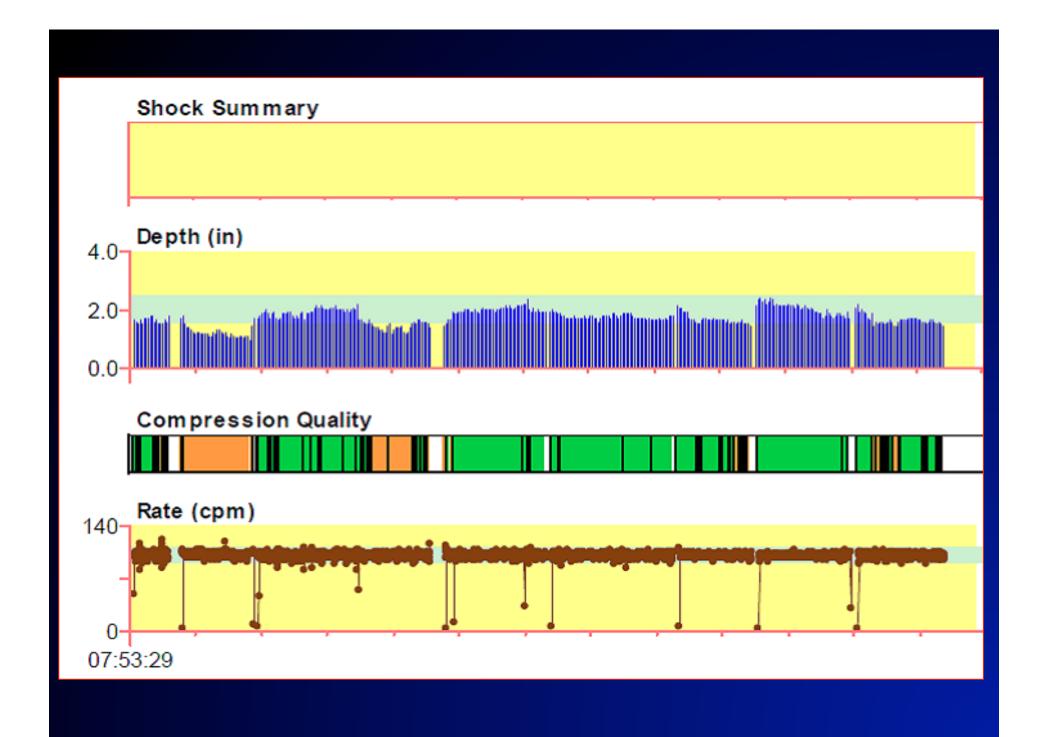
# And, Speaking Physiologically

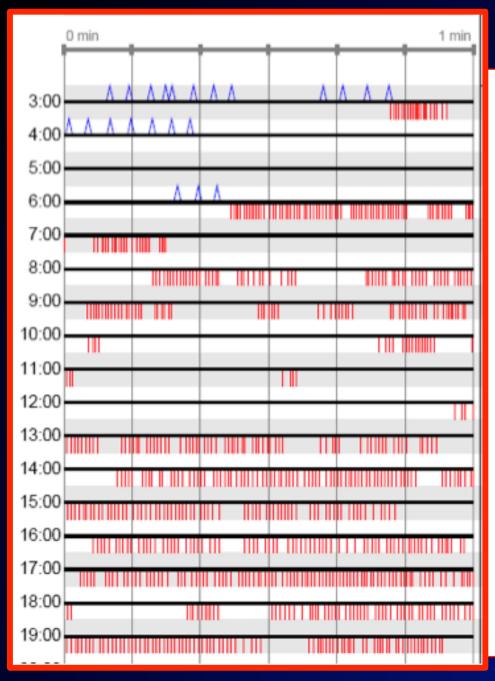
### 20 cc O<sub>2</sub> /100 cc Blood

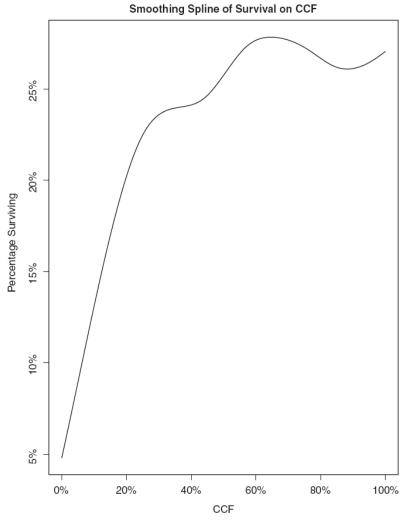
5000 cc / 100 cc = 50

20 cc x 50 = 1000 cc

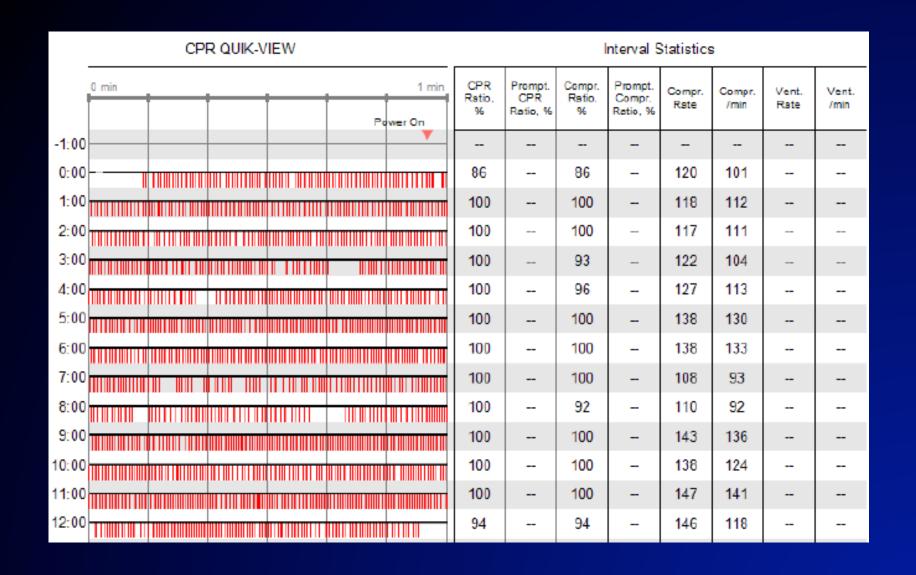
You just have to move the blood around, de-emphasizing ventilation vin the first few minutes,n maybe up to 4 – 5 minutes WITH NO AIRWAY OBSTRUCTION



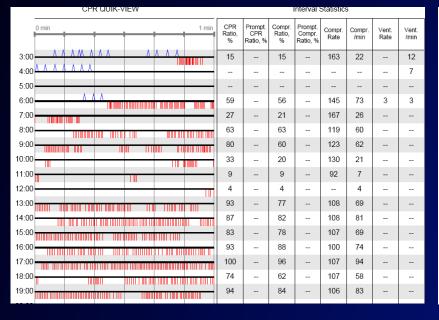


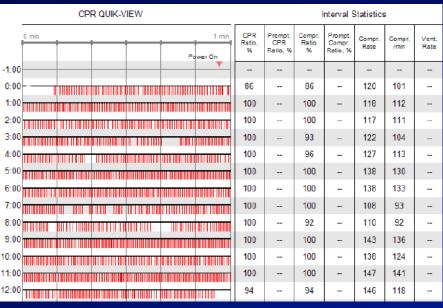


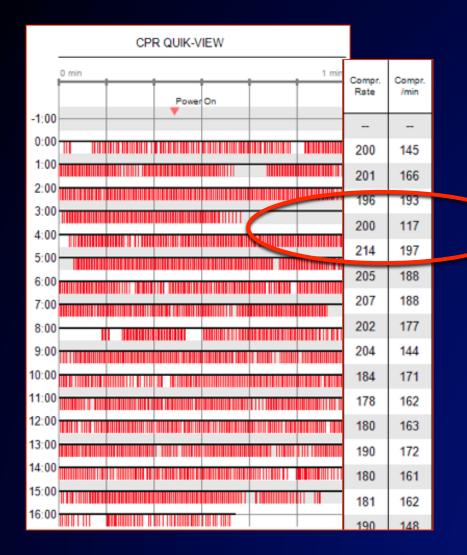
**Figure 3.** Smoothing spline representing the incremental probability of survival corresponding to a linear increase in chest compression fraction.

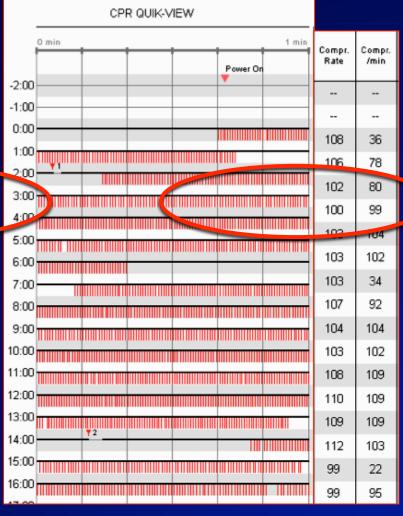


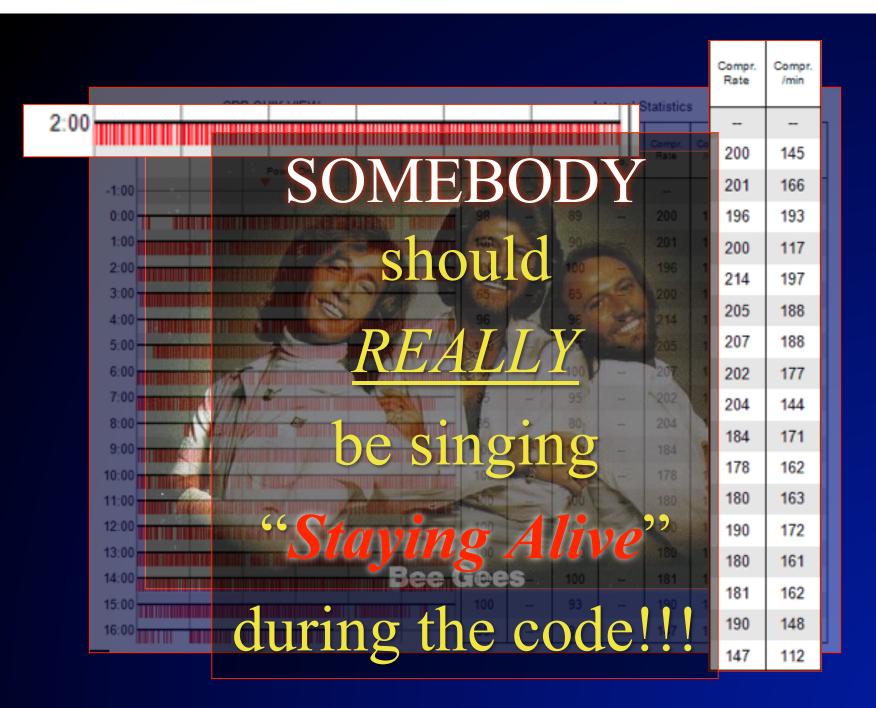
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### 100 BPM Tunes



#### 100 BPM Tunes

Life's Been Good (to me so far) - Joe Walsh

Sittin' on the Dock of the Bay - Otis Redding

Oh What a Night - 4 Seasons

Mother's Little Helper – Stones

50 Ways to Leave Your Lover - Paul Simon

Sunday Bloody Sunday – U2

Cecilia - Simon & Garfunkel

Duke of Earl - Four Tops

### 100 BPM Tunes

One little, two little, three little....Texans

Row Row Your Boat....

### CPR ESSENTIALS 2011

- > VENTILATIONS: 0 in 1st 5
- > COMPRESSION DEPTH
- COMPRESSION
  FRACTION: Just DO IT
- >RATE: 100 120
- PAUSES: < 10 seconds

### Faster is NOT Better!!

"It's my dream every cab would have an AED AND give a \$50 bonus to the first person on the chest in a cardiac arrest."

A.J Heightman

## Write Your Congressman TODAY!!

### **Summary Thoughts**

"In most cardiac arrests, the airway isn't the problem."

"In cardiac arrests where airway is the problem, the patient will die unless you fix it."

"However you manage the airway, do it well, do it quick, and don't make a mess out of it!"