

Some "Shocking" and "Non-Shock"ing Outcomes...

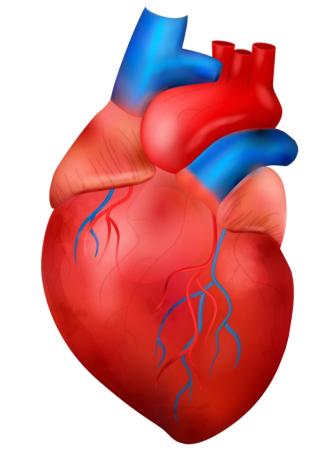
Kerry Bachista, MD St. Johns County Fire Rescue

Lewis Siegel, MD Chesapeake (VA) Fire Rescue

Peter Antevy, MD
Chief Charlie Coyle
Palm Beach County Fire Rescue

Chesapeake Fire Department

Neuroprotective CPR impact on PEA



Lewis Siegel, M.D.

PEA CARES data starting February 2022

77 witnessed 37 unwitnessed 40 witnessed by 911 responders

20/154=13% CPC 1 or 2

2023 data 18%, since January of this year, 16% CPC 1 or 2

Recent Case Synopsis 5-4-24

21-year-old playing basketball at neighborhood court

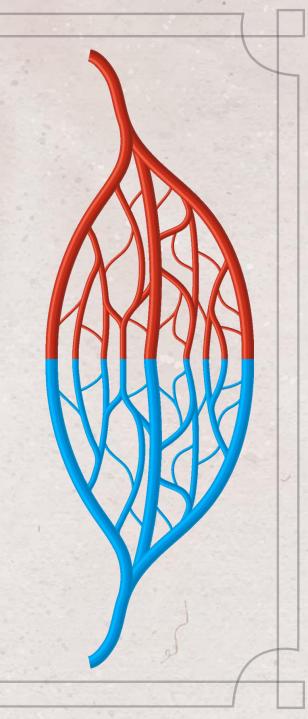
Initially dispatched as a seizure.

1 engine company and 1 medic unit started responding, a BLS response

ALS was requested during the response. A Field Medical Officer started responding

On arrival, the company officer announced he had a cardiac arrest and to upgrade the response to an Echo dispatching an additional engine company (ALS) and a battalion chief.

Medic unit arrived on scene 2 minutes and 19 seconds after being dispatched.



Case synopsis continued

ALS engine arrived on scene 7 minutes after the medic unit arrived.

The paramedic had concerns with the positioning of the supraglottic airway, removed the SGA and intubated the patient.

This was followed by a Tibial IO, an EPI push then EPI drip.

Subsequently, rhythm was noticed to be v-fib, shocked at 200J.

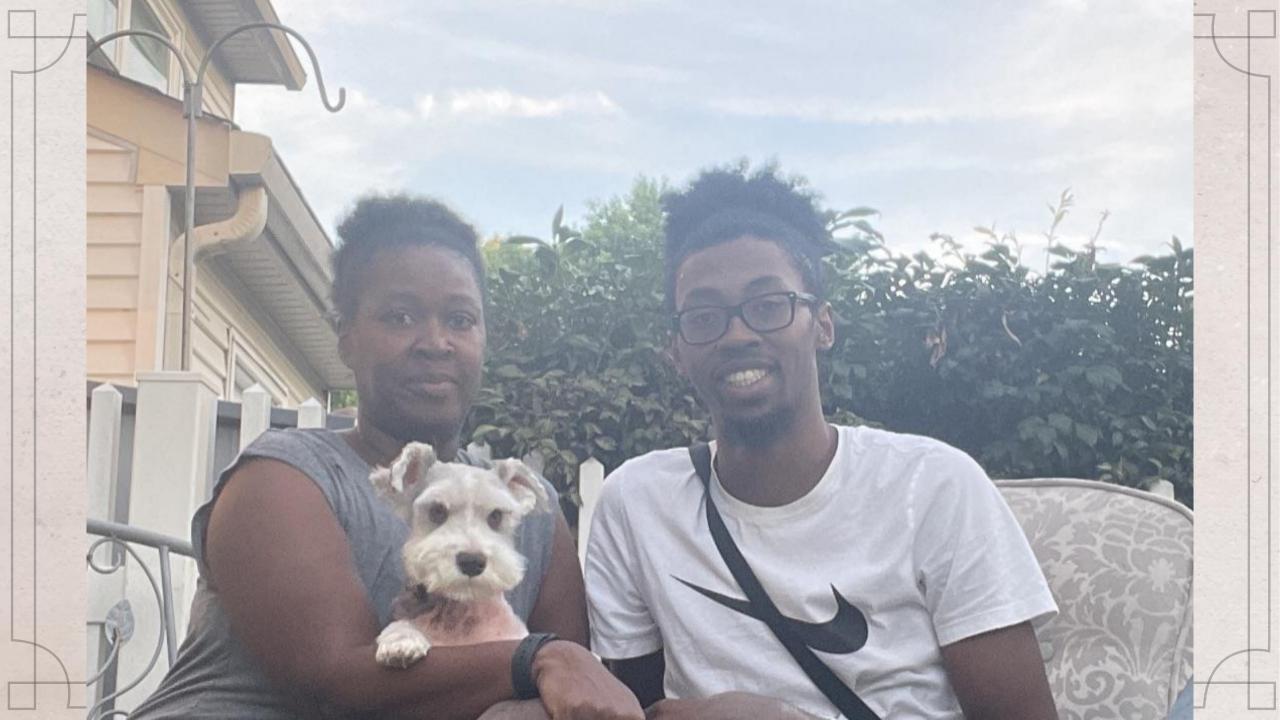
CPR resumed.

Next pulse check: patient was in sinus tach with a palpable pulse. ResQPOD was removed, 12 lead obtained and transmitted.

During transport, patient had spontaneous respirations and airway reflexes. Patient received 5mg of Versed for post-intubation sedation

From Dispatch to ROSC was 23 minutes. From FMC to ROSC was 18 minutes.

Received full neuroprotective bundle
Post arrest, patient was cooled
Neuro status continued to improve during hospitalization, discharged home with
LifeVest

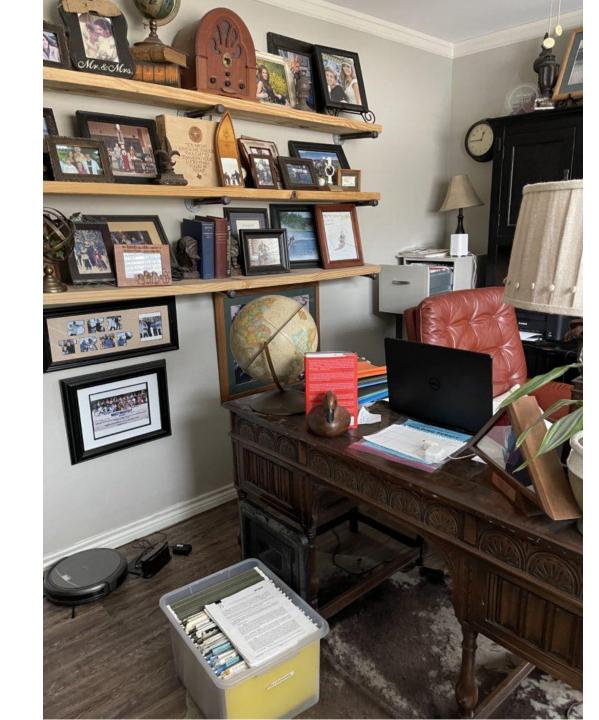


Kerry Bachista, MD St. Johns County Fire Rescue

A Story...

- 9/22/23 4:28pm
- 70 year old Kenneth Commins is sitting at his desk in his home office. S/P ablation...
- "Short of breath, dizzy."
- 911 audio:





Date of Service: 09/22/2023

Dispatch CR#: 2300052342

NPI: 1720071343

TIMES

Injury:

PSAP:

Disp Notify: 16:29 09-22-23

Recvd: 16:29 09-22-23

Dispatch: 16:29 09-22-23

En route: 16:30 09-22-23

At scene: 16:32 09-22-23

At patient: 16:33 09-22-23

Transport: 17:11 09-22-23

At dest.: 17:23 09-22-23

Dest Tra Care: 17:24 09-22-23

In service: 17:53 09-22-23

Cancel:

- 4 minute response time
- NO bystander CPR
- EleGARD, I gel, ITD, ResQCPR

 LUCAS, femoral IO and peripheral IV
- Refractory VFIB
- 12 defibrillations. 8 DSED
- Epi 1mg q10min. Amiodarone (IV)
 Magnesium. End tidal = 19 -37

38 minutes on scene

QA METRICS ER Timeline

On Grand III'm a ta		Care Timeline
On Scene Time to EleGard Deployed	GOAL- LESS THAN 4 MINUTES	09/22
- 1		1725 Arrived
T . 1 T		Cardiopulmonary resuscitation procedure
Total Time on Scene Before Transport	GOAL - 30 MINUTES OR MORE	1726 Code start
114110-011		1728 o epinephrine 1 mg 1734 o epinephrine No dose recorded
		1734 O epinlepinine No dose recorded
Total Time on Scene Before	GOAL - 30 MINUTES OR MORE	1738 amiodarone HCl 1 mg/min
Resuscitation Discontinued		1739 EPINEPHrine (Adrenalin) 5,000 mcg in dext ose 5 % 10 mcg/min
		1741 C ECG 12-Lead
911 to EleGard Deployed	GOAL- LESS THAN 11 MINUTES	1753 Comprehensive metabolic panel ①
		Lipase
		Magnesium (1)
Time Off Chest	(GREATER THAN 5 SECONDS) GOAL - ZERO	Protime-INR (*) APTT (*)
	GOAL - ZERO	Troponin I 🚻
ROSC	YES OR NO	CBC and differential (1)
ROSC	TES OR INO	1754 etomidate 30 mg
		succinylcholine chloride,succinylcholine/sod 100 mg

Our ERs are really good at keeping patient in Heads Up bundle with LUCAS and ITD.

In Hospital Care...

1629 – 1741 = 72 minutes in cardiac arrest



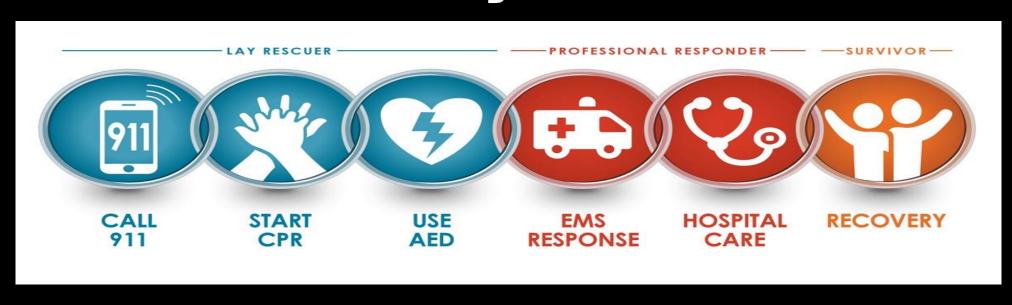


Take Home Points...

- Why do we do what we do?
- What cost for a life?
- It's all about perfusion...
- Don't give up...



Resuscitation Awards Palm Beach County Fire Rescue Style



EXCELLENCE TODAY



IMPROVING TOMORROW



To be eligible for this award the crew must adhere to the **PBCFR Cardiac Arrest Patient Care Protocols, and** the patient must be discharged from the hospital with a CPC score of 1 or 2

EXCELLENCE TODAY IMPROVING TOMORROW



- Several calls to the dispatch center
- Immediate response from the staff to the tennis court
- New Fire Station down the street



- Cliff Rizzi Athletic Director
- Nicole Hymes (2)— Dispatcher
- Metronome and Dispatcher assisted compressions



 Two Shocks from the AED by the staff at the club before Fire Rescue assumed care

EXCELLENCE TODAY IMPROVING TOMORROW

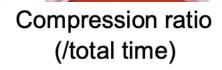


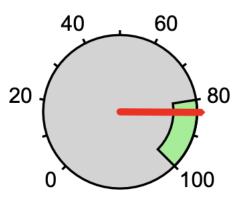
- EMS Captain Darwin Zelaya (2)
- Captain Tim Hoffman (3)
- Paramedic Jonathan Hamilton (1)
- Paramedic Rolando Garcia (1)
- Paramedic Nathaniel Torrech (1)
 - 907 Bars from to 2021 to current

EXCELLENCE TODAY



IMPROVING TOMORROW





17:46 / 21:17 = 83 %

IVEOL OLIVE

- Excellent CPR with minimal interruptions
- 2 standard shocks at 360j
- 4 Double Sequential Defibrillations

	Time	First Defib	Duration to First Defib
Unit OS	8:33:40	8:36:02	0:02:22

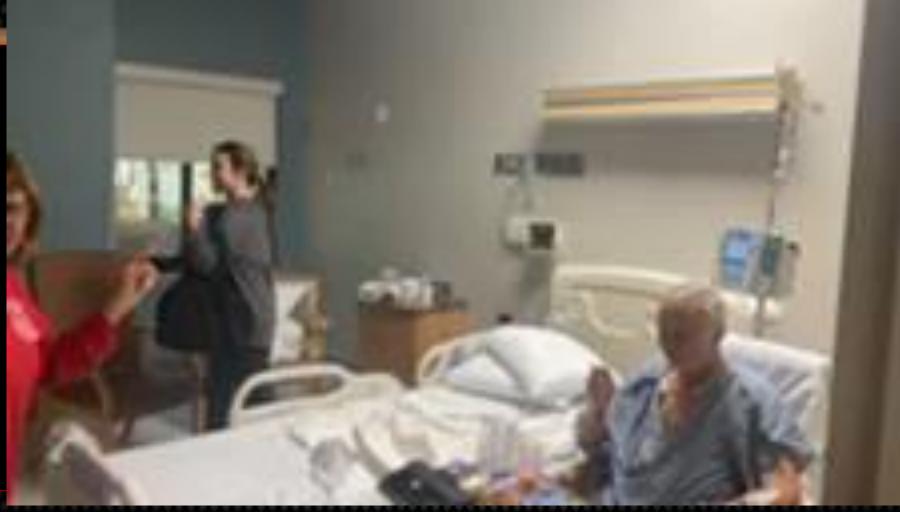
- · UHTASUUNU TA NETERI CALMAR HIANAN
- 200 mgs of Ketamine
- Induced Hypothermia



- ICU Nurse Madison Davis
- Trauma Nurse Ryan Speaker
- Trauma Surgeon Nir Hus
- Medical Director Peter Antevy
- Son Adam Nierow



EXCELLENCE TODAY MINING TOMORROW



EXCELLENCE TODAY



IMPROVING TOMORROW



