

Pumping it up in Memphis:



Tennessee Two- Step

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Eagles Consortium



- ❖ **What is our real world experience with the Lucas Device?**
- ❖ **What are there reasons for the difference?**







Memphis Fire Department

- ✱ **Approximately 1,900 personnel**
 - ✱ **350+ Medics**
 - ✱ **1500+ EMTs**
- ✱ **59 Stations**
- ✱ **60 Engines**
- ✱ **27 Truck Companies**
- ✱ **36 ALS Ambulances**
- ✱ **Sponsoring Agency for USAR Tennessee Task Force 1**



Demographics

✱ **Annual Call Volume 125,000 runs**

History with the Lucas

50% trucks in 2011

Full implementation 2012

All Cause Cardiac Arrest



Std Dev

Average Age 60 20

Avg Epi 3 2

Avg Atropine 0.5 1.0

Avg Amiodarone 0.2 0.5

Avg Dextrose 0.1 0.3

Avg Narcan 0.2 0.4

**Average Number of
Defibrillations** 2



ROSC Rates

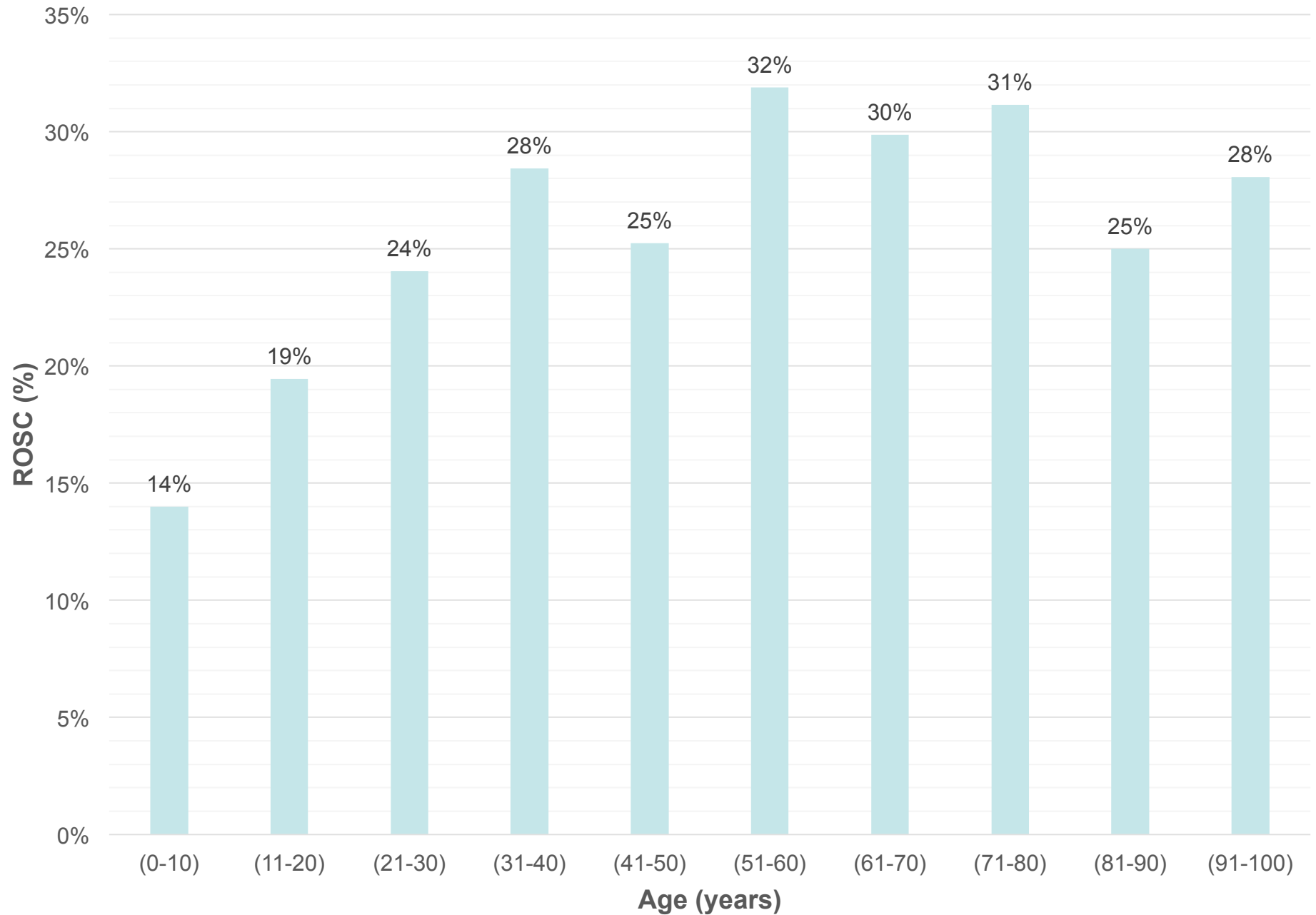
% Males with ROSC

25%

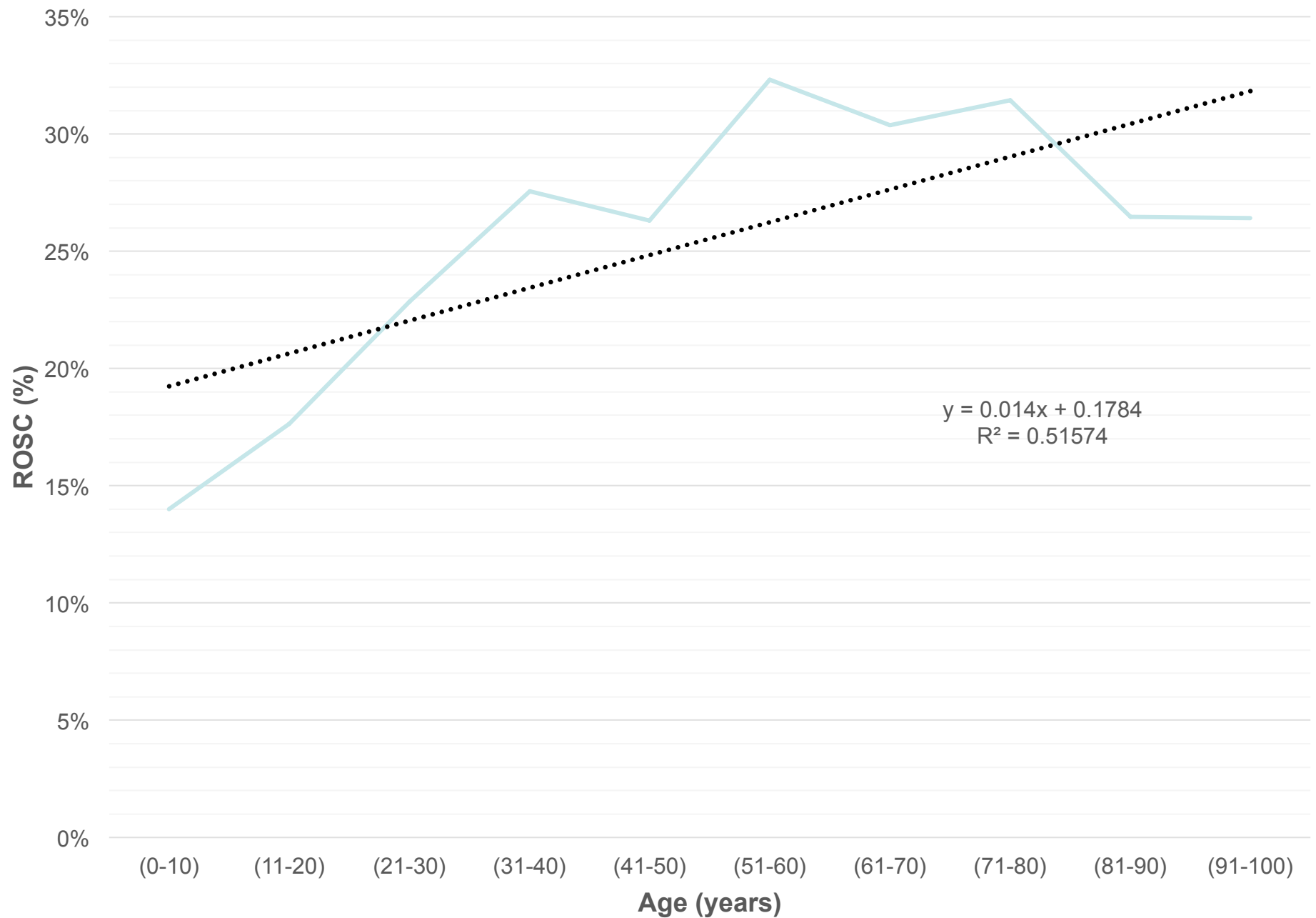
% Females with ROSC

31%

2012-2014 ROSC % vs. Age



2014 % ROSC vs. Age





The results...

% of Lucas with ROSC 30%

% of Std CPR with ROSC 21%

No other changes in arrest protocol



Why the differences? (IMHO)

- ✱ Fewer Pauses?
- ✱ More consistency?
- ✱ Lots of time moving patients in situations where CPR quality is poor



**Getting those patients back
to work...**





Thank You!

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Eagles Coalition
Gathering of Eagles

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