



CARES 2020 National Report

City of Aurora EMS System



CARES

Cardiac Arrest Registry
to Enhance Survival

Introduction

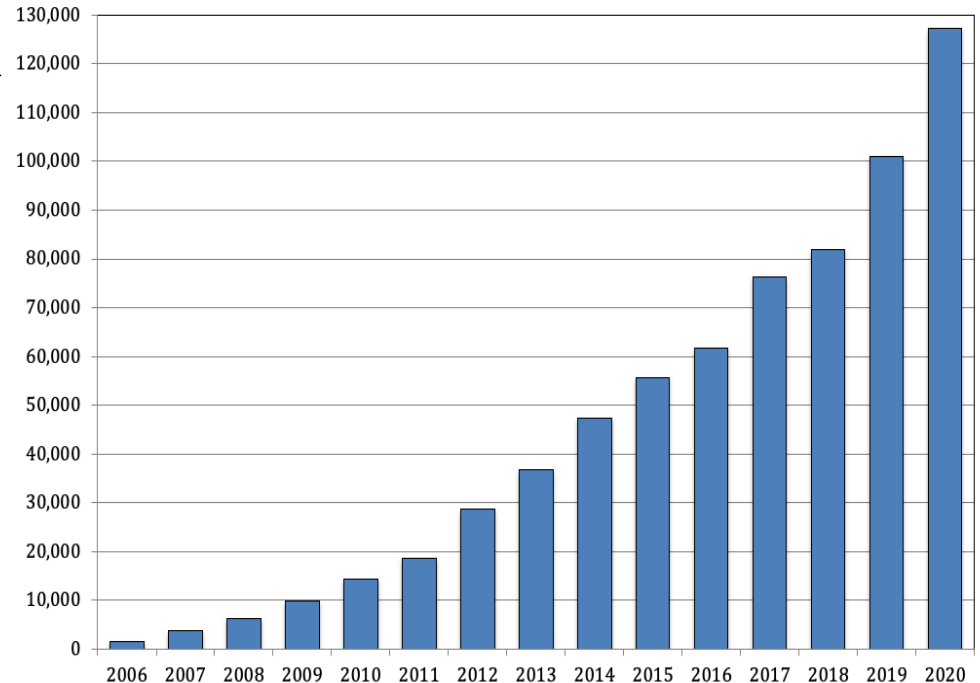
- The Cardiac Arrest Registry to Enhance Survival (CARES) is a national effort to improve prehospital cardiac arrest outcomes
- Data from all of the cardiac arrests in the Aurora EMS system where resuscitation was attempted is submitted to the registry
- Participating agencies receive an annual report on their data and give comparison data to other agencies across the state and the nation

2020 National Dataset

- **1,741** EMS Agencies and over **1,900** Hospitals contributed data
- **127,376** non-traumatic CARES cases
- 196 missing hospital outcomes for a **0.15%** LTFU rate
- National report will be posted on the CARES website:

<https://mycares.net/sitepages/reports.jsp>

CARES Annual Call Volume

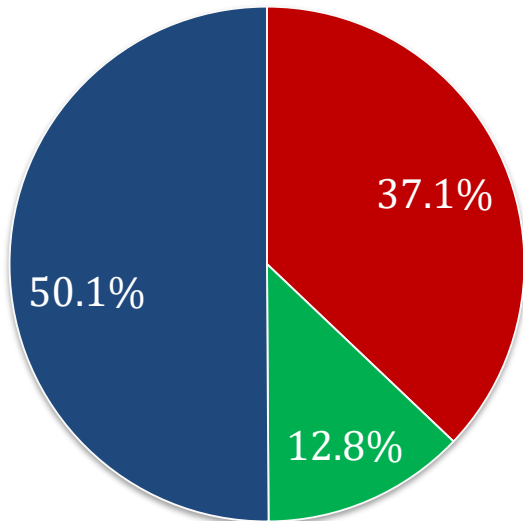


2020 National Dataset City of Aurora Comparison to State and National Data

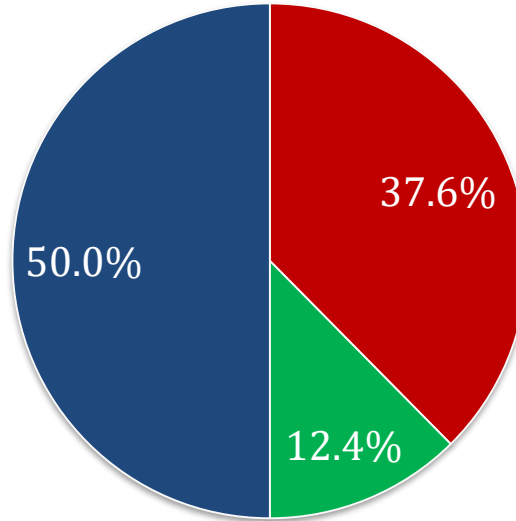


Arrest Witness Status

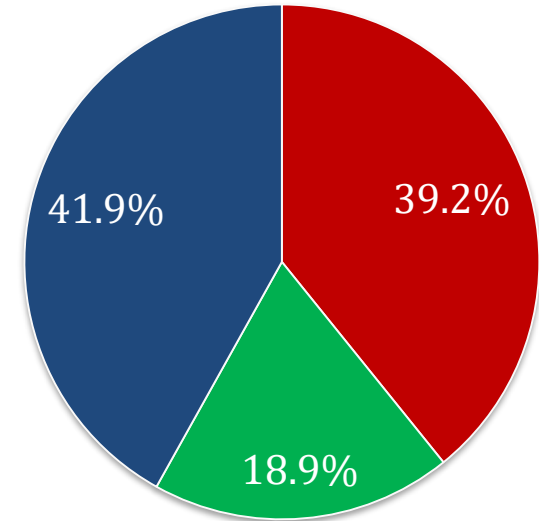
National



Colorado



City of Aurora



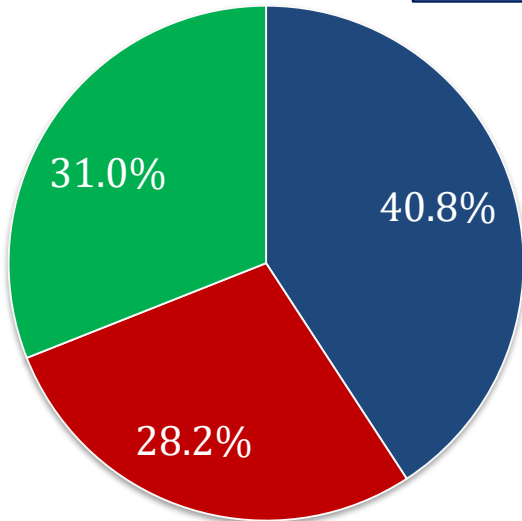
■ Bystander Witnessed ■ 911 Responder Witnessed ■ Unwitnessed

Who Initiated CPR

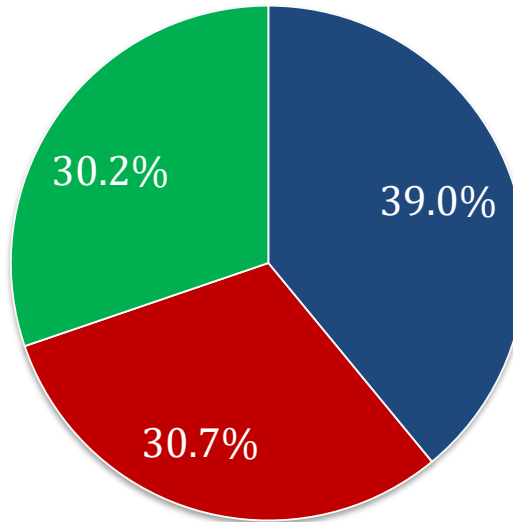
- Bystander
- First Responder
- EMS

First Responder = APD, law enforcement, others
EMS = AFR and Falck

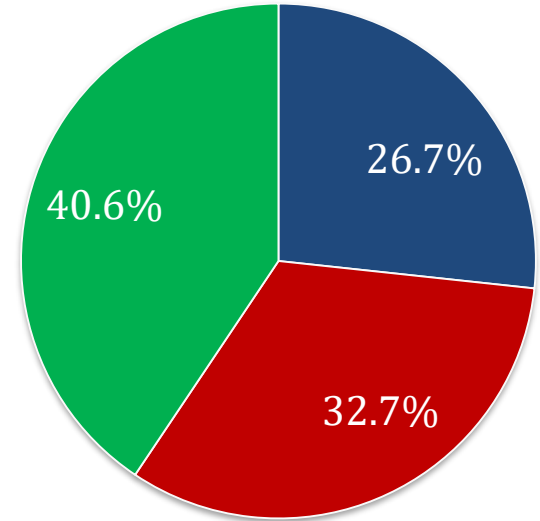
National



Colorado

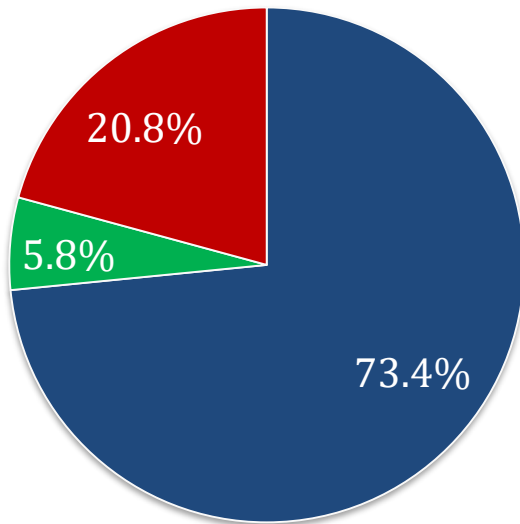


City of Aurora

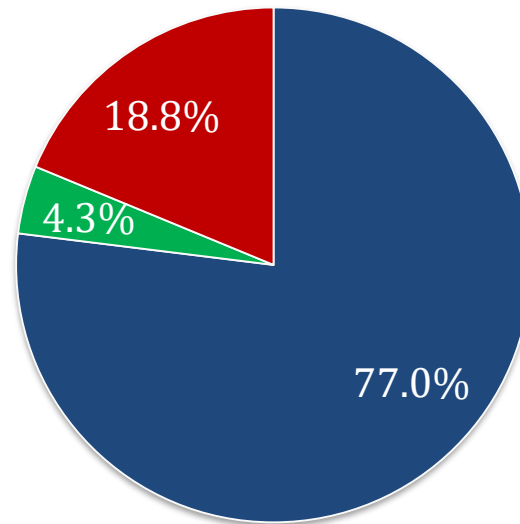


Was an AED Applied prior to EMS arrival?

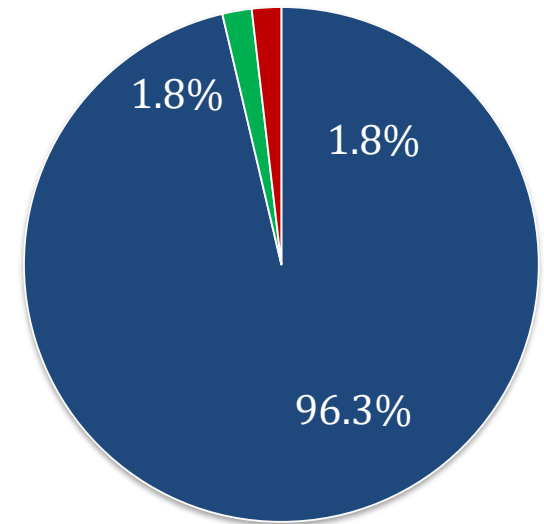
National



Colorado

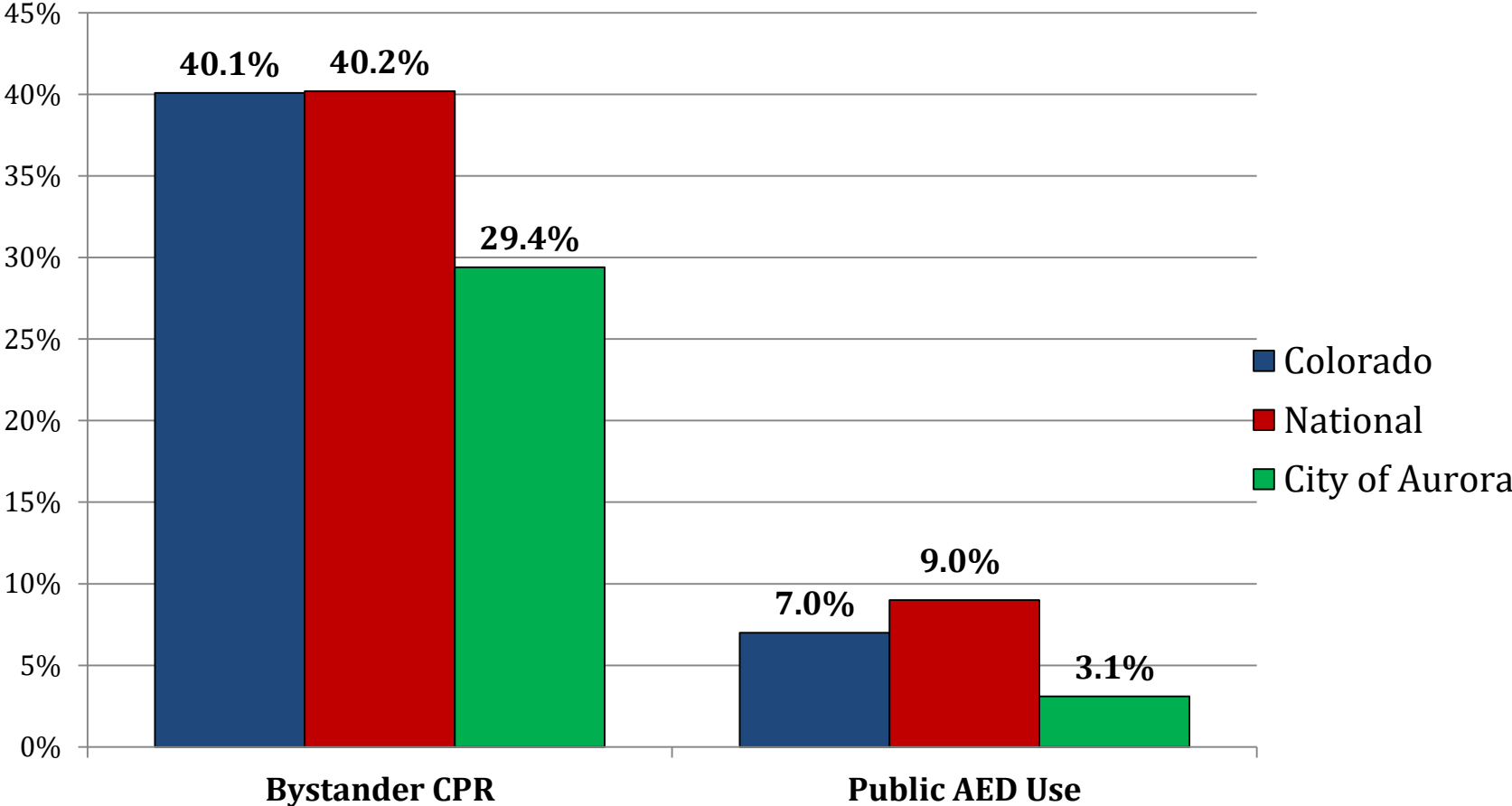


City of Aurora



■ No ■ Yes, by a bystander ■ Yes, by a First Responder

Bystander Intervention Rates

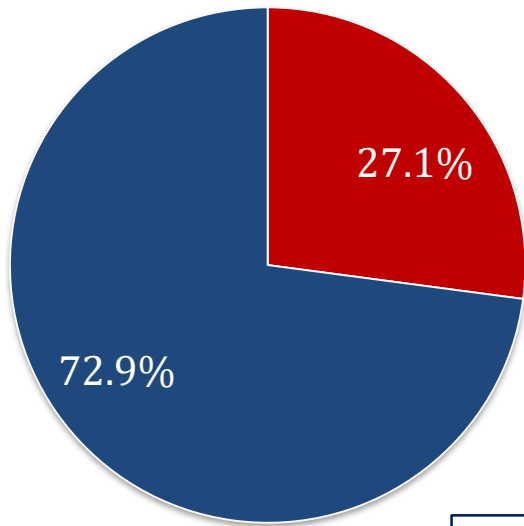


- Bystander CPR rate excludes 911 Responder Witnessed, Nursing Home, and Healthcare Facility arrests.
- Public AED Use rate excludes 911 Responder Witnessed, Home/Residence, Nursing Home, and Healthcare Facility arrests.

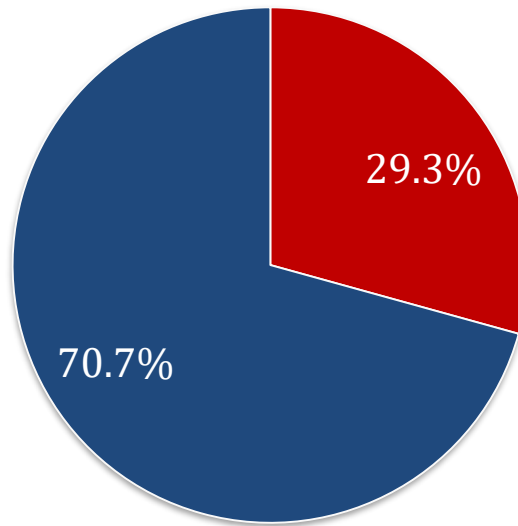
Sustained ROSC in the field

ROSC = Return Of Spontaneous Circulation

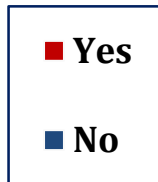
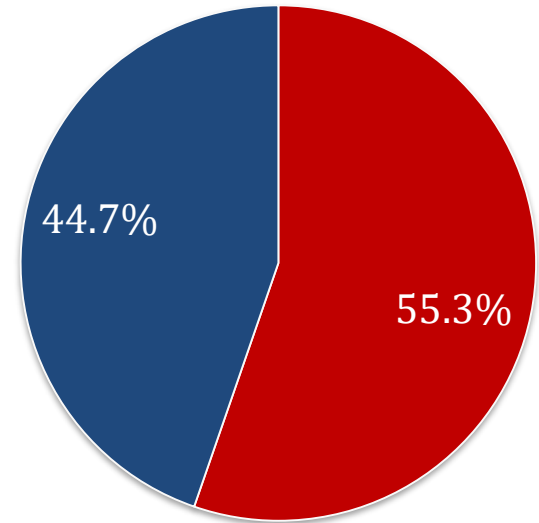
National



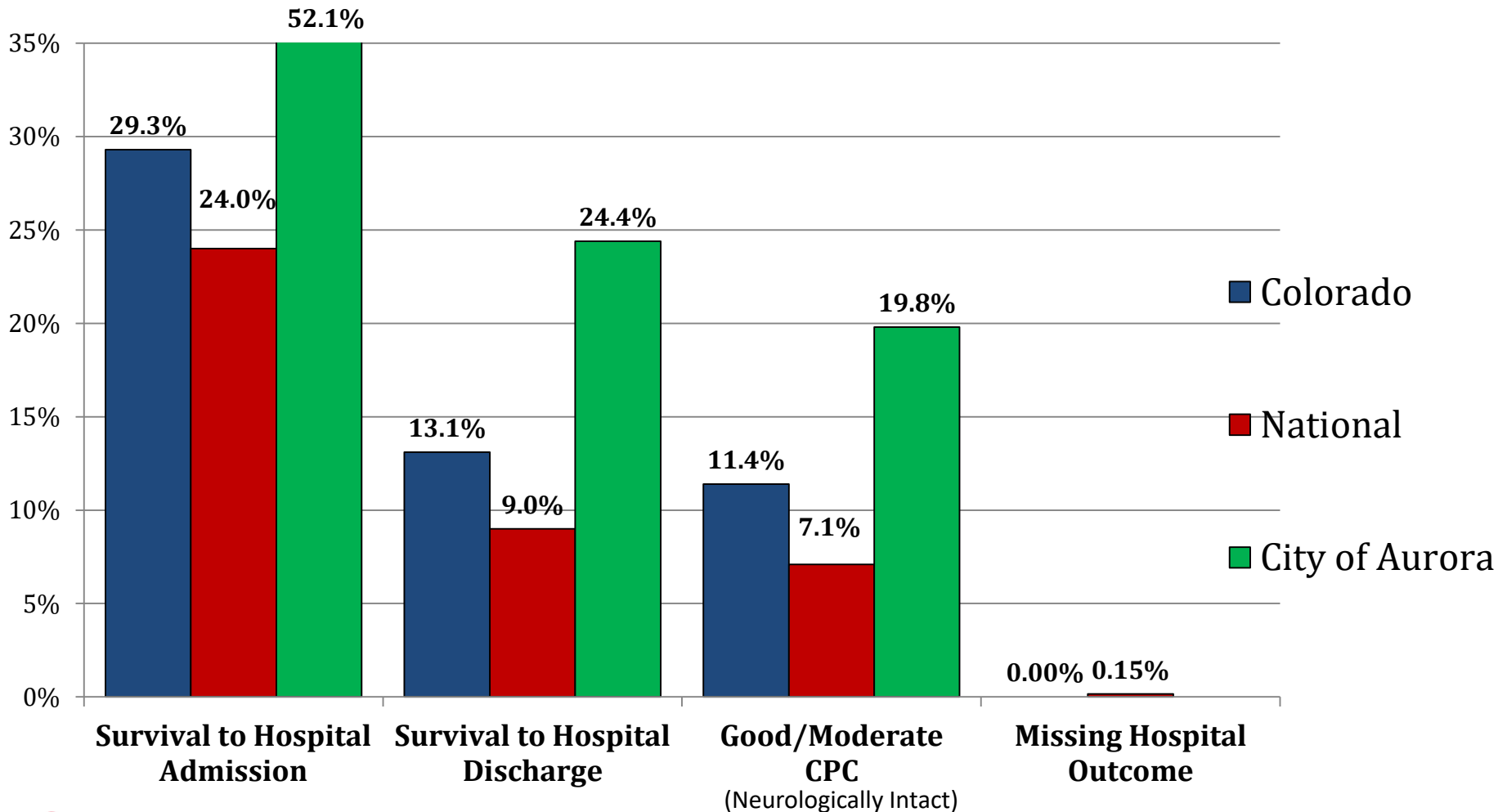
Colorado



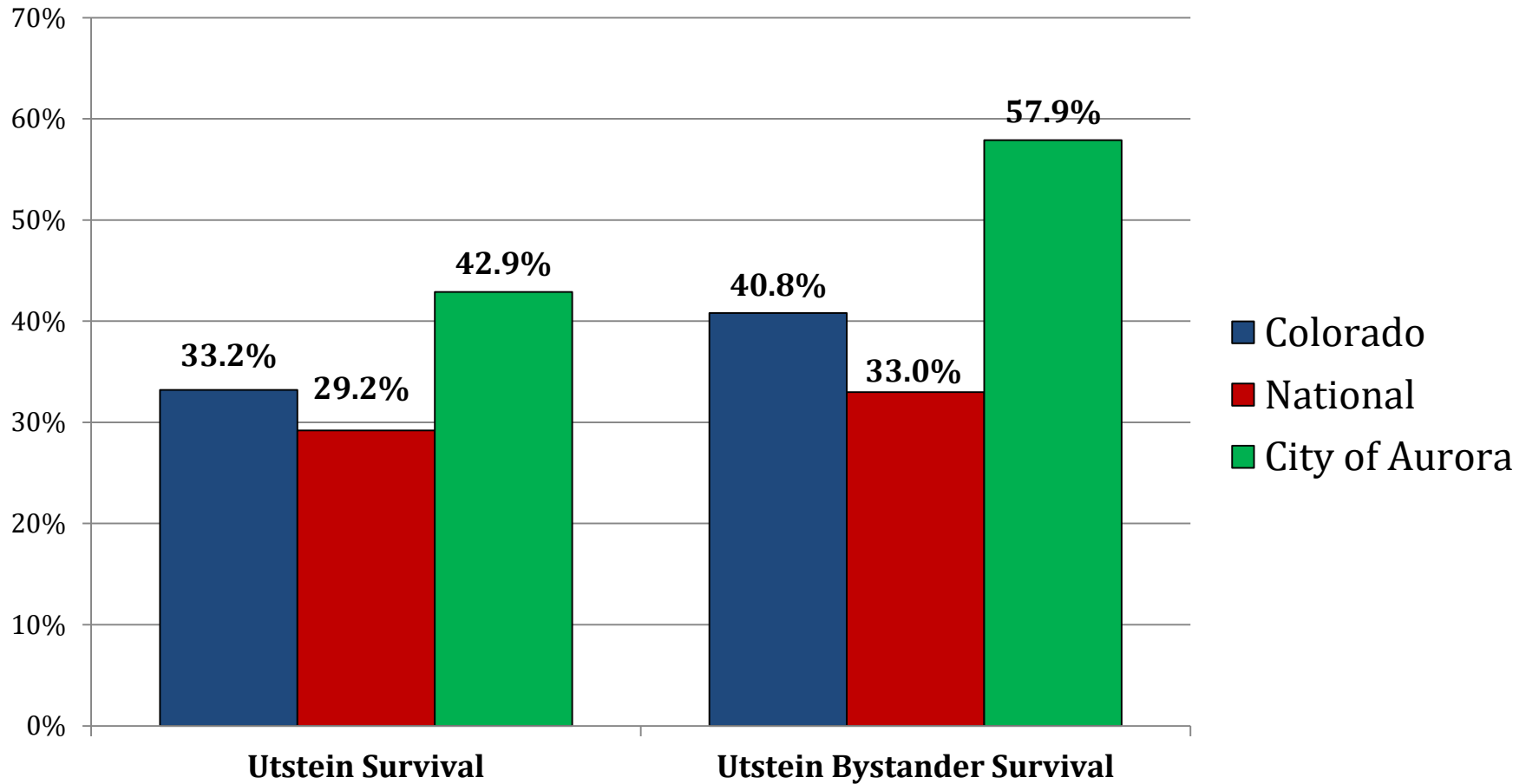
City of Aurora



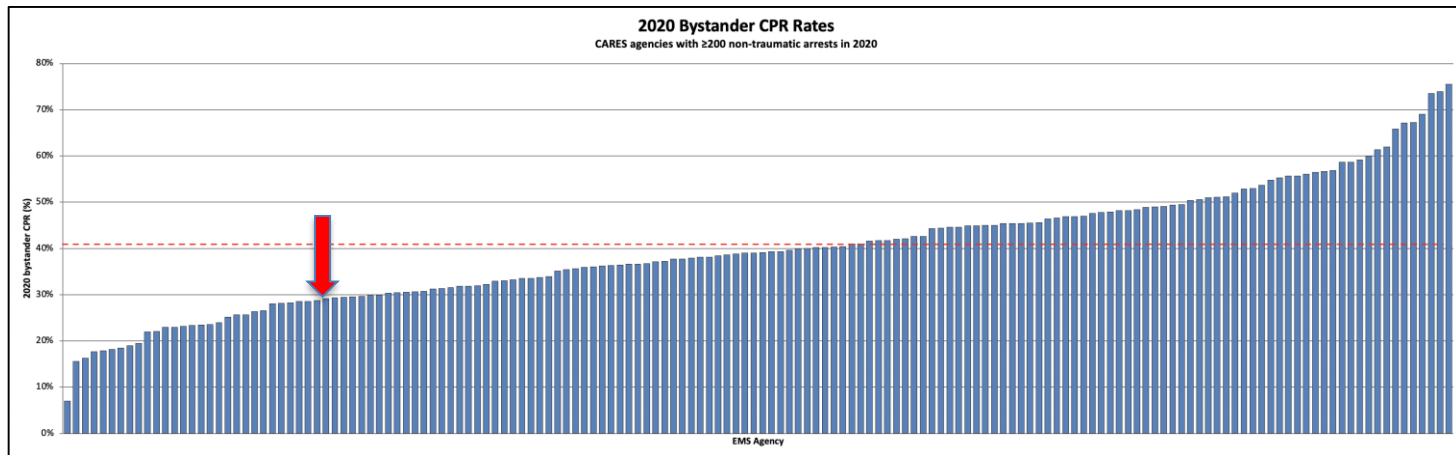
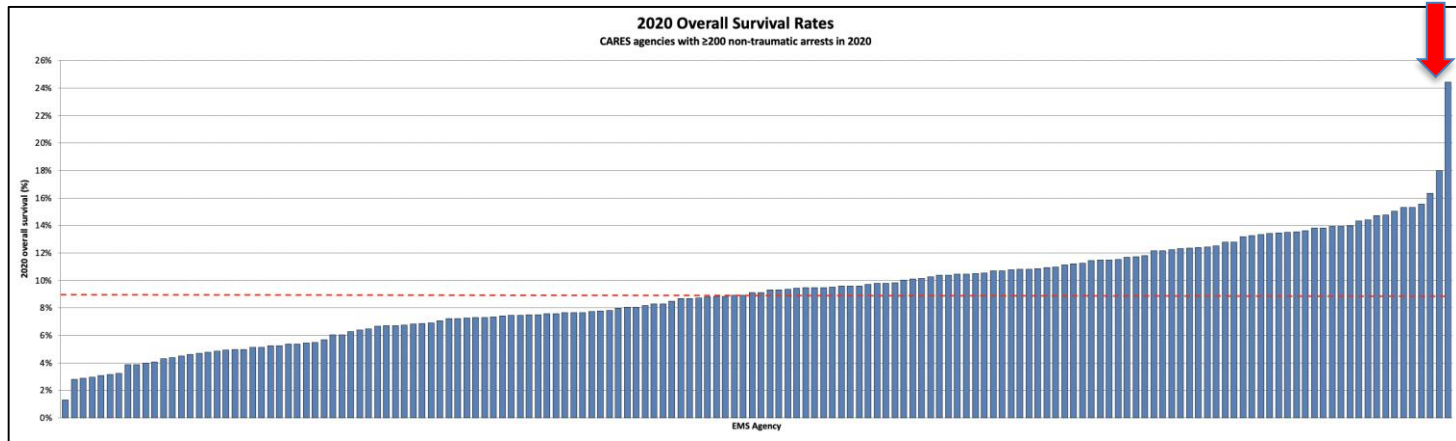
Survival Rates: Overall Survival



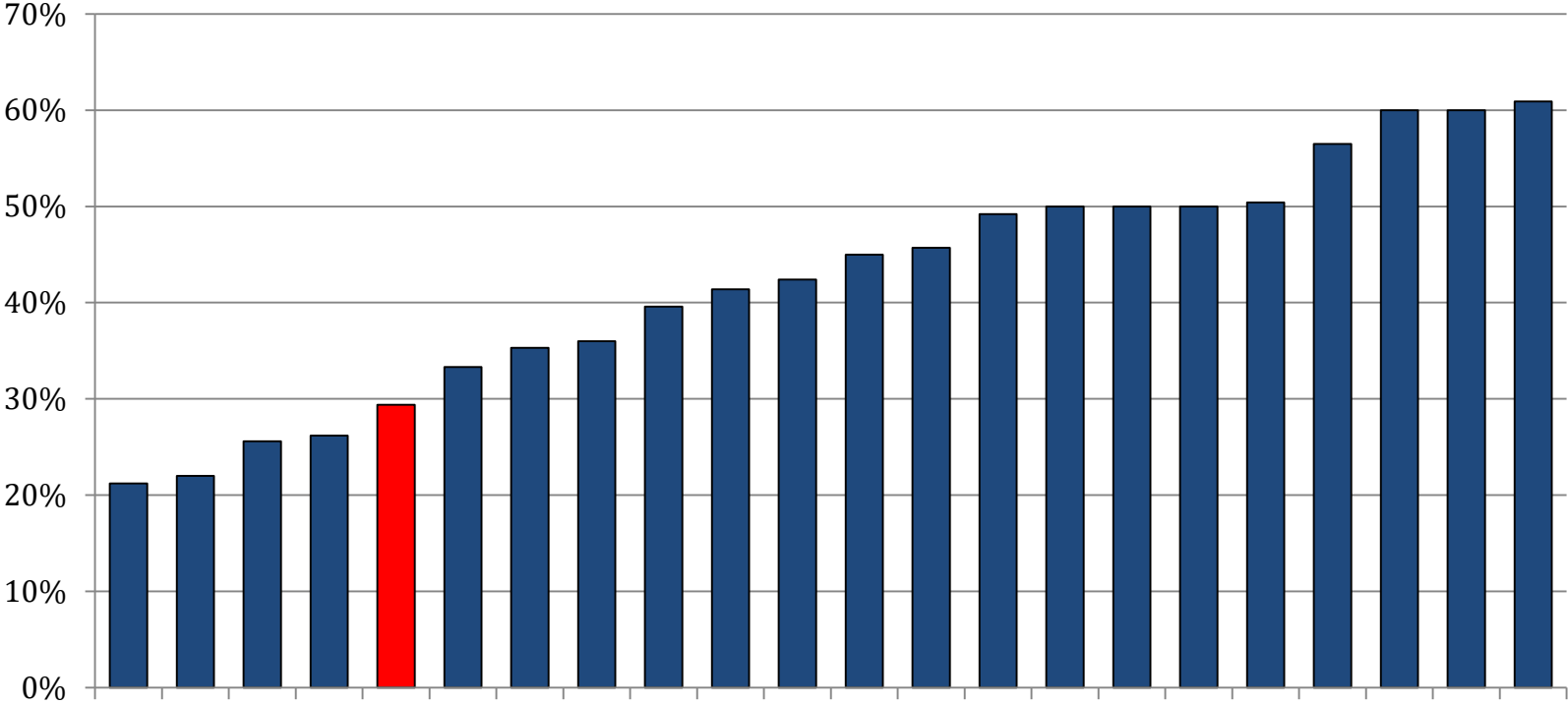
Survival Rates: Bystander Witnessed Shockable Rhythm



CARES National Regional Variation

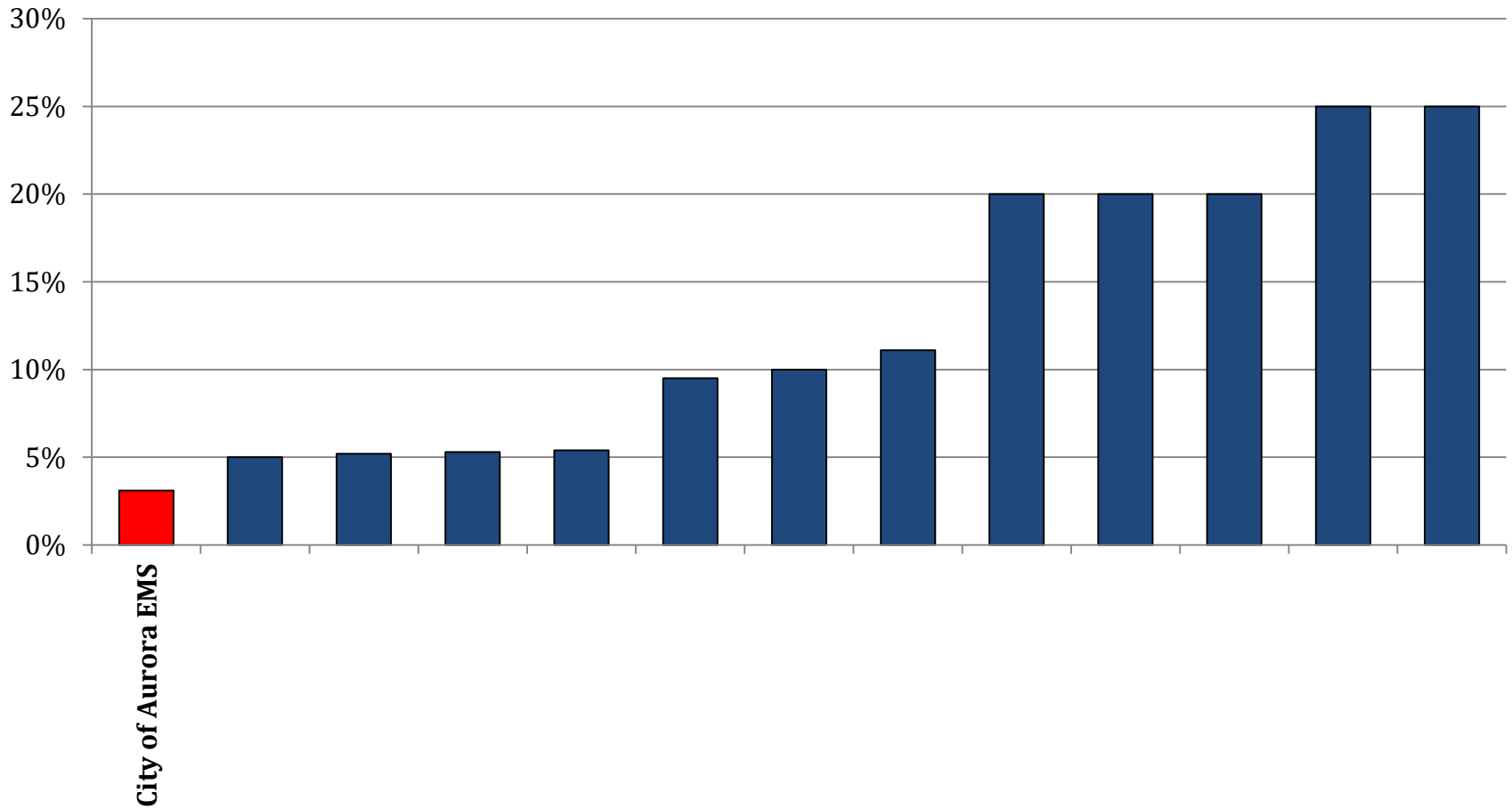


Colorado Variation – Bystander CPR

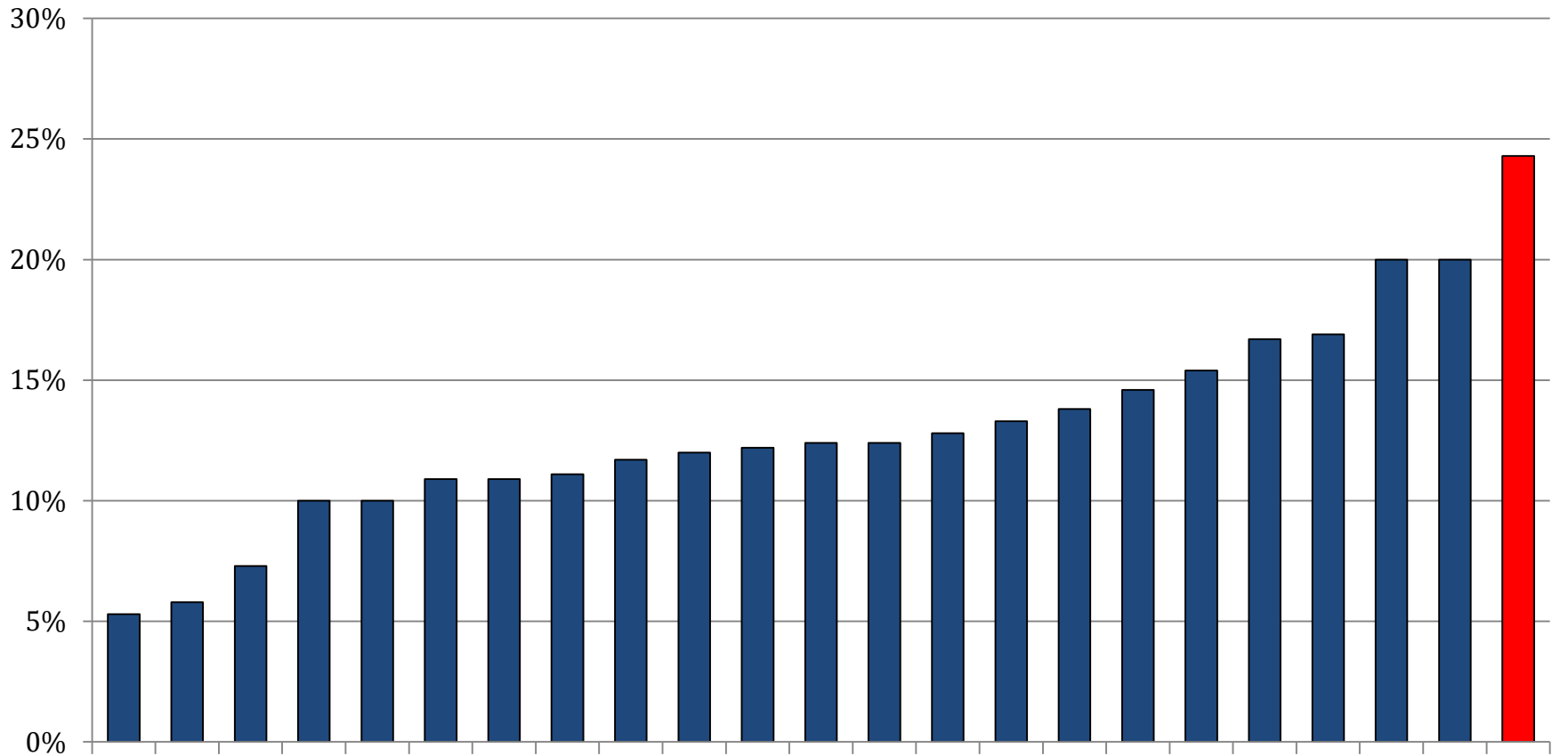


City of Aurora EMS

Colorado Variation – Public AED Use



Colorado Variation – Survival Rate



City of
Aurora EMS



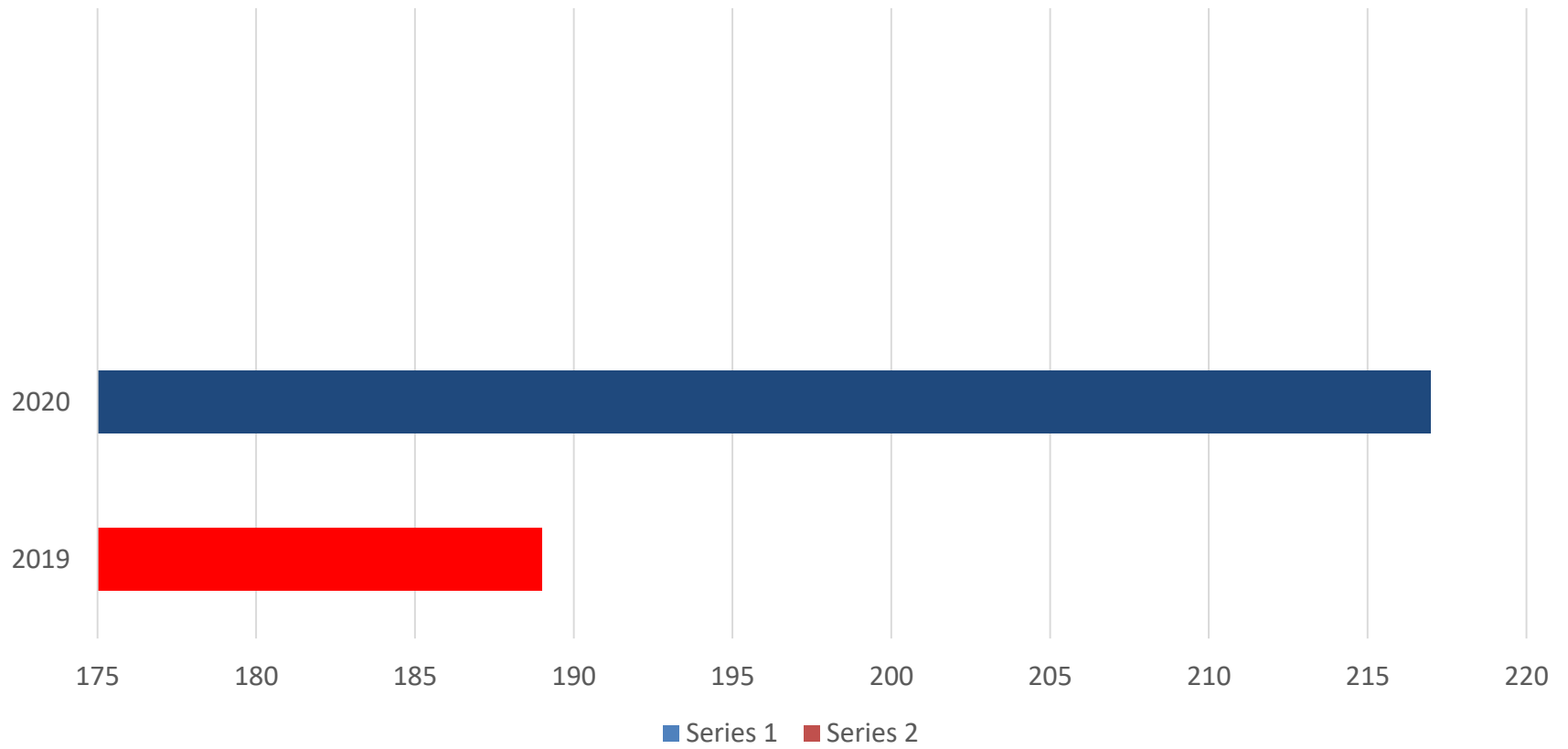
2019- 2020 CARES Comparison: City of Aurora



CARES

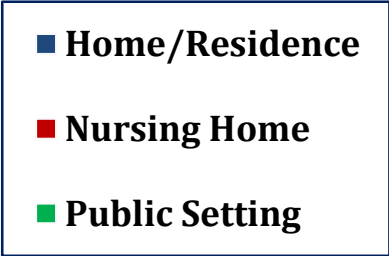
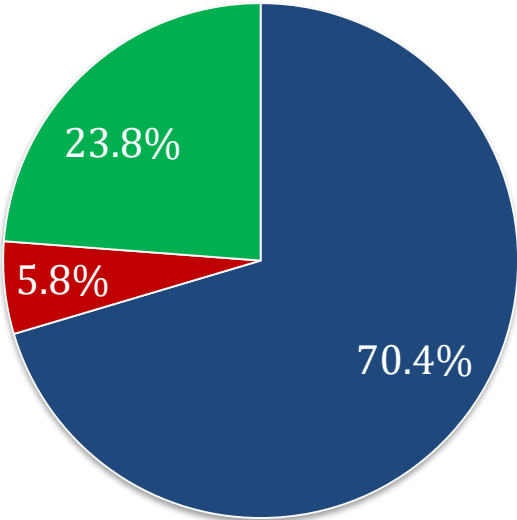
Cardiac Arrest Registry
to Enhance Survival

CARES DATA ENTERED 2019 compared to 2020

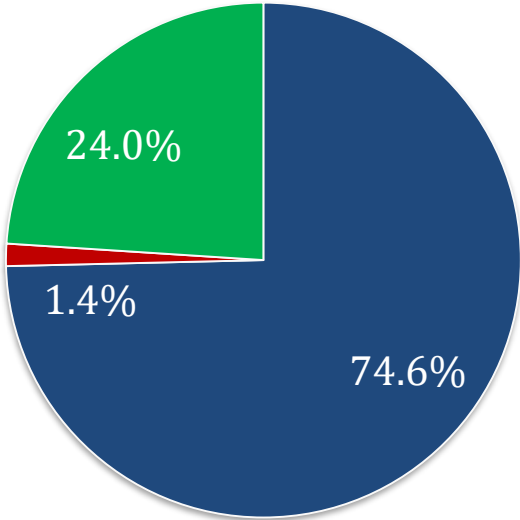


City of Aurora Location of Arrest

2019

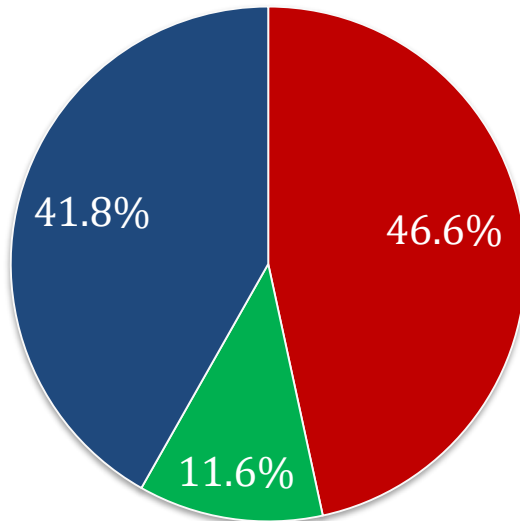


2020

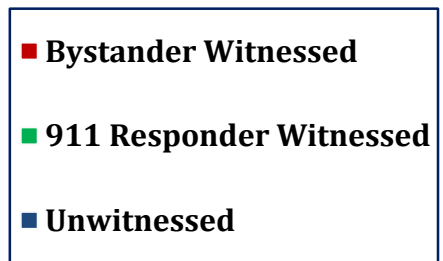
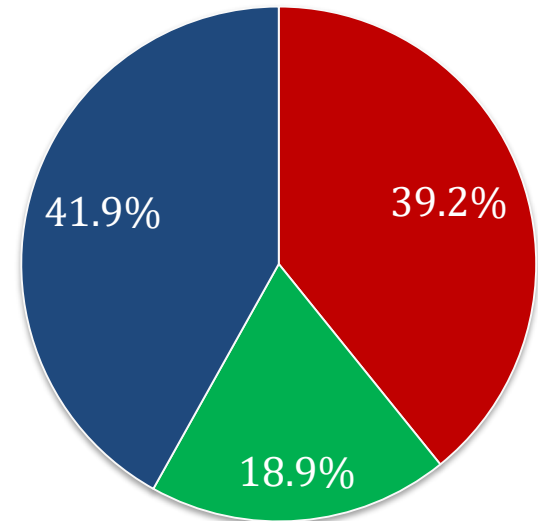


Arrest Witness Status

2019

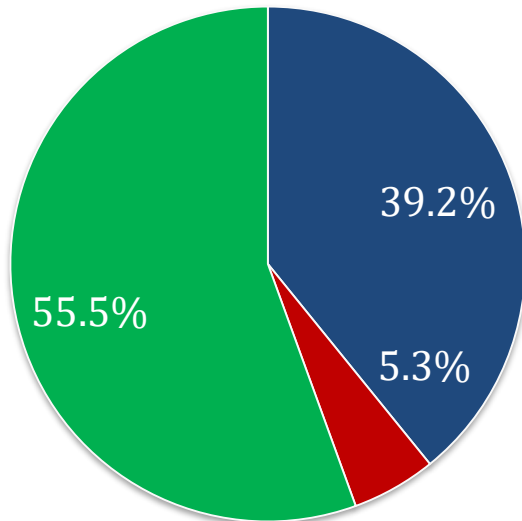


2020

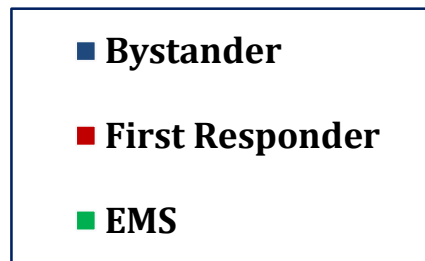
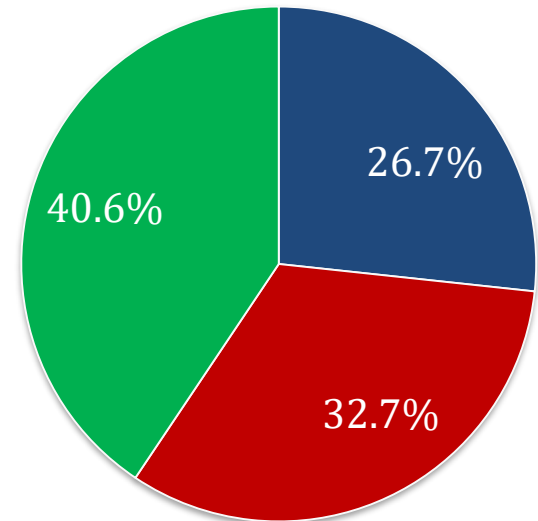


Who Initiated CPR?

2019

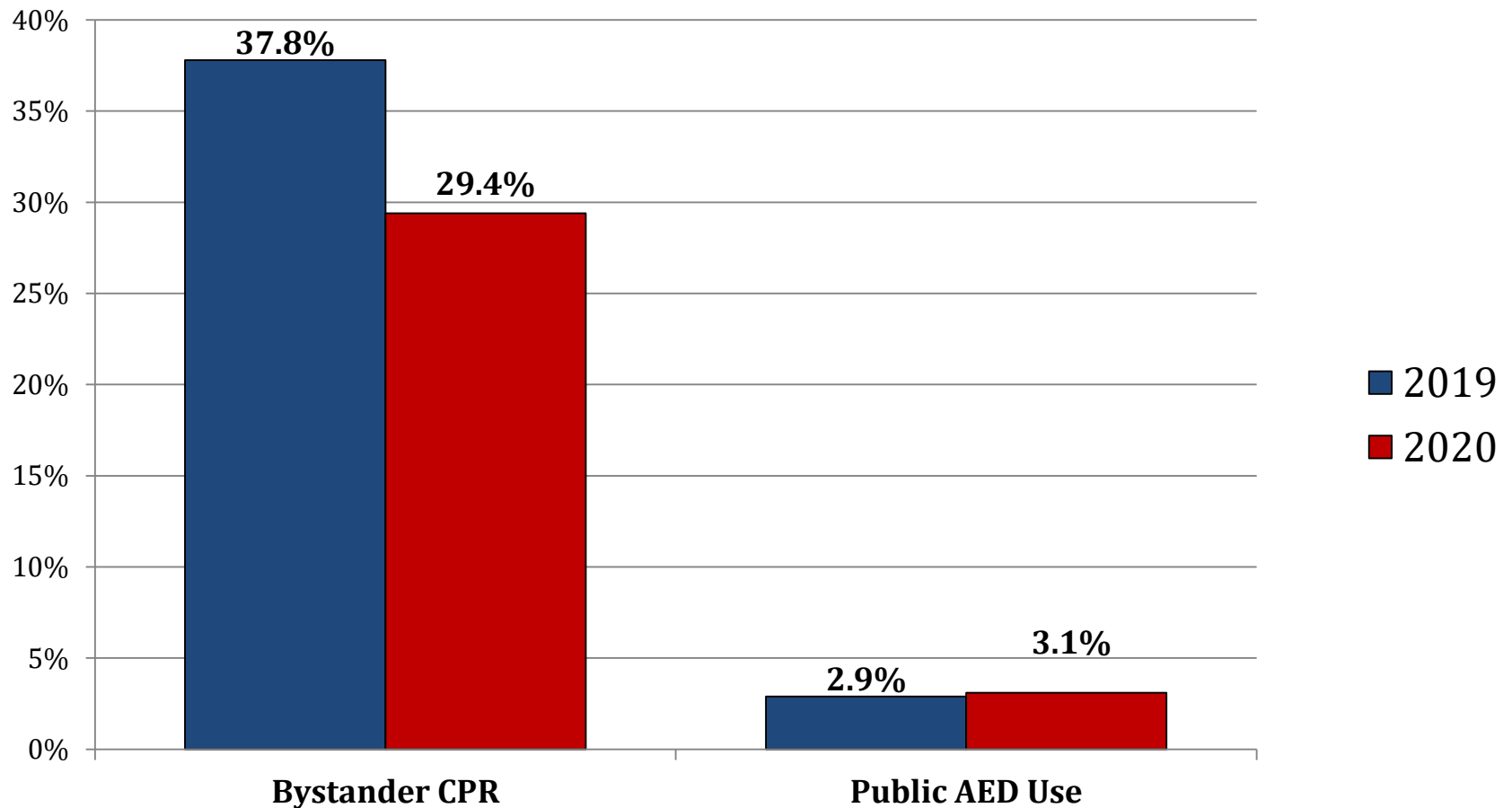


2020

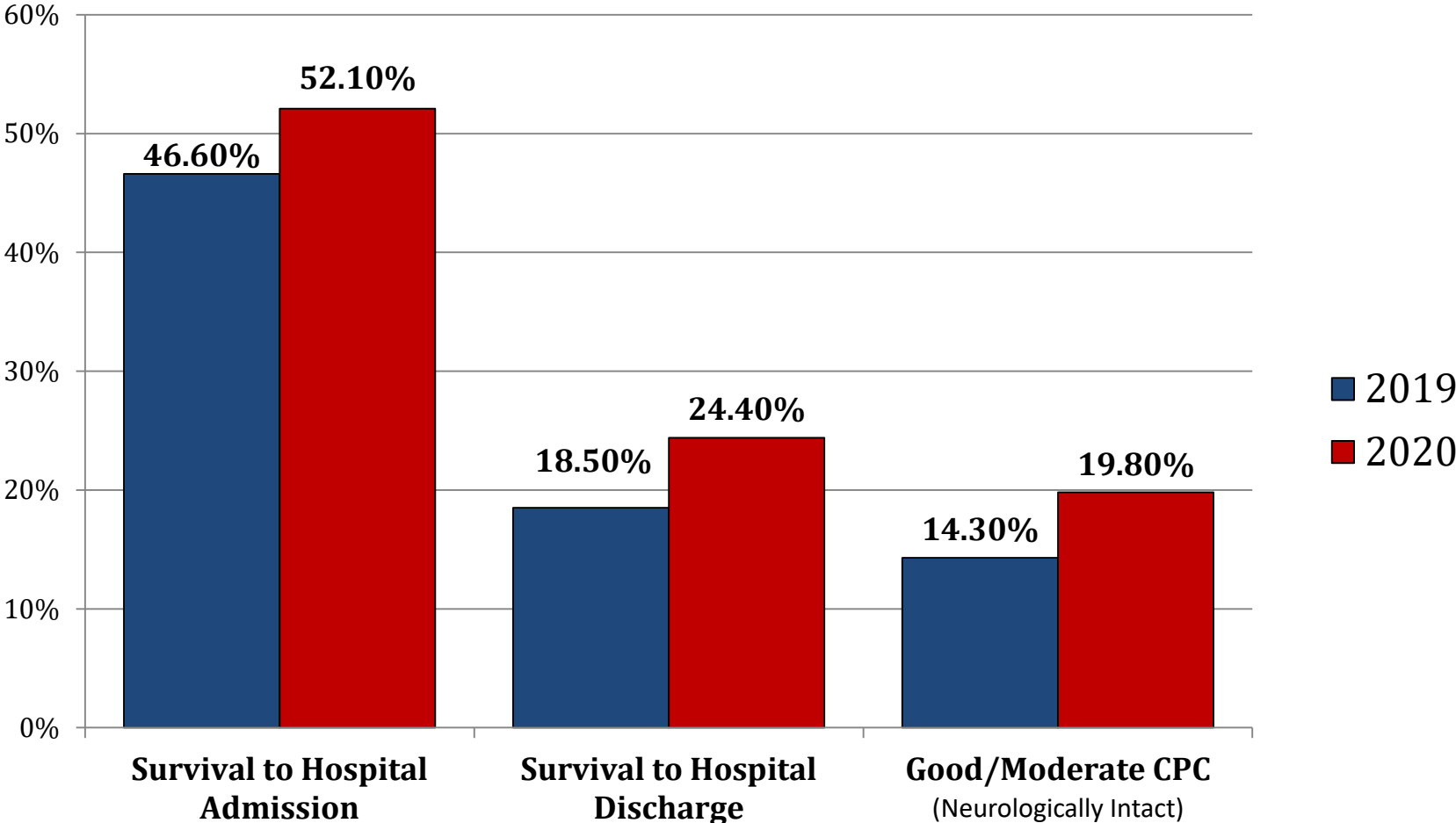


City of Aurora

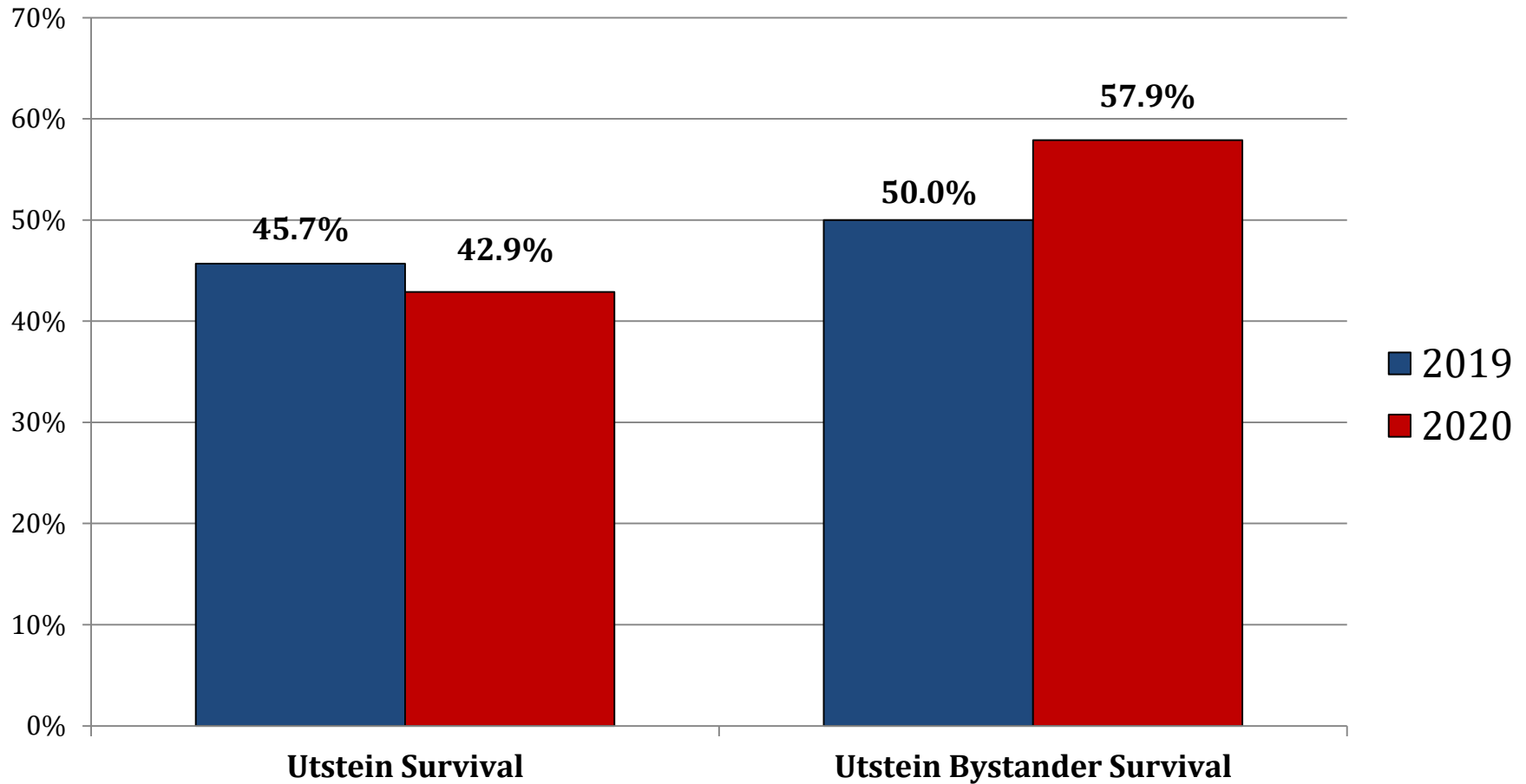
Bystander Intervention Rates



Survival Rates: Overall Survival



Survival Rates: Bystander Witnessed Shockable Rhythm



Data Interpretation

- Cardiac arrest patients in Aurora receive outstanding care and have higher rates of survival compared to state and national metrics.
- Notable areas of opportunities around low bystander CPR and public AED use in Aurora compared to state and national metrics.

Future Direction

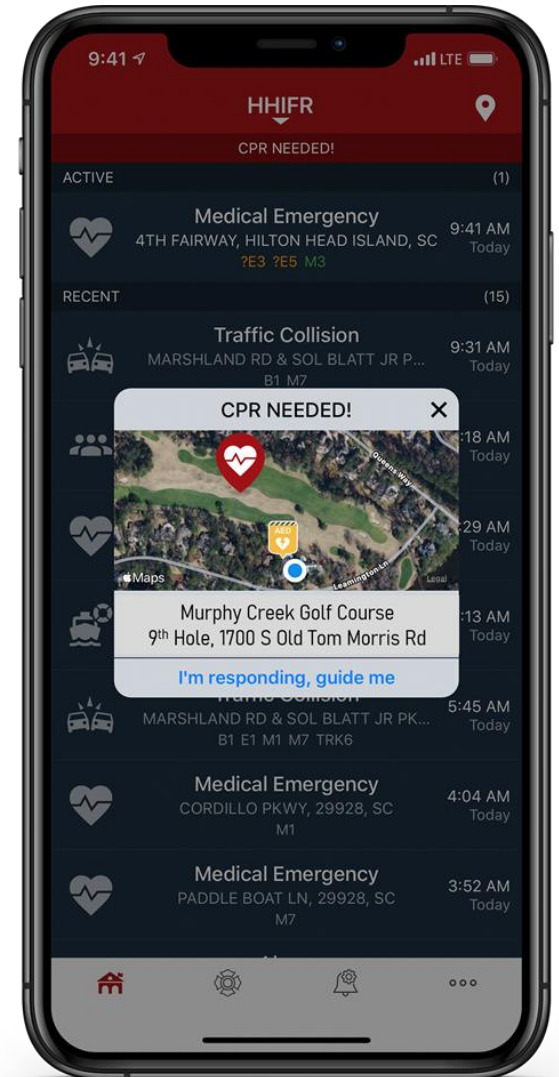
- Public access AED program
- Community CPR programs across the city
- Emphasis on 911 dispatcher CPR instructions
- Continue training on high performance CPR
- Continued feedback to crews on every cardiac arrest resuscitation through the QA program

PulsePoint Bystander CPR

Learn CPR.

Download the App.

Save a Life.



PulsePoint Bystander CPR

CPR Classes offered by Aurora Fire Rescue

- American Heart Assoc.
- American Red Cross
- AFR Instructors

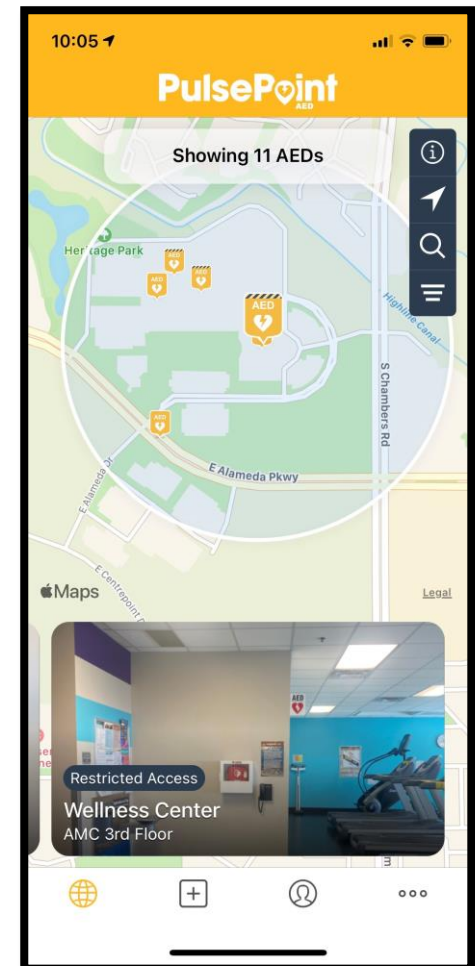
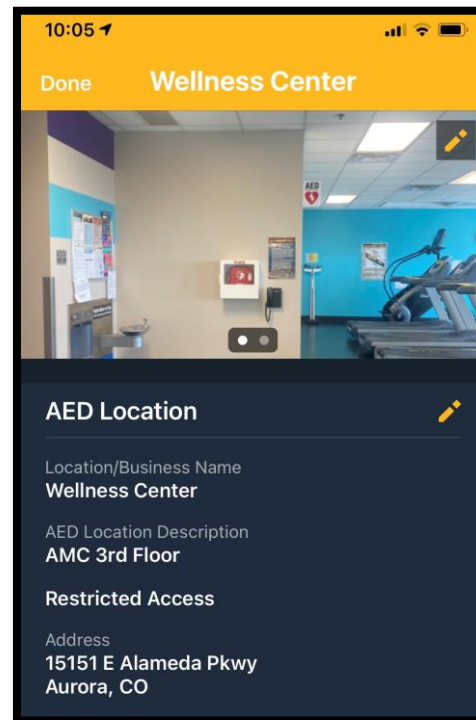


Staff from Aurora Public Library learn CPR on June 7. Additional Class being offered next month.

PulsePoint AED Program

Tracking Automatic External Defibrillators (AED)

- City Facilities
- Private Residences
- Local Businesses



Screenshots of AEDs located at and around the Aurora Municipal Center Campus.