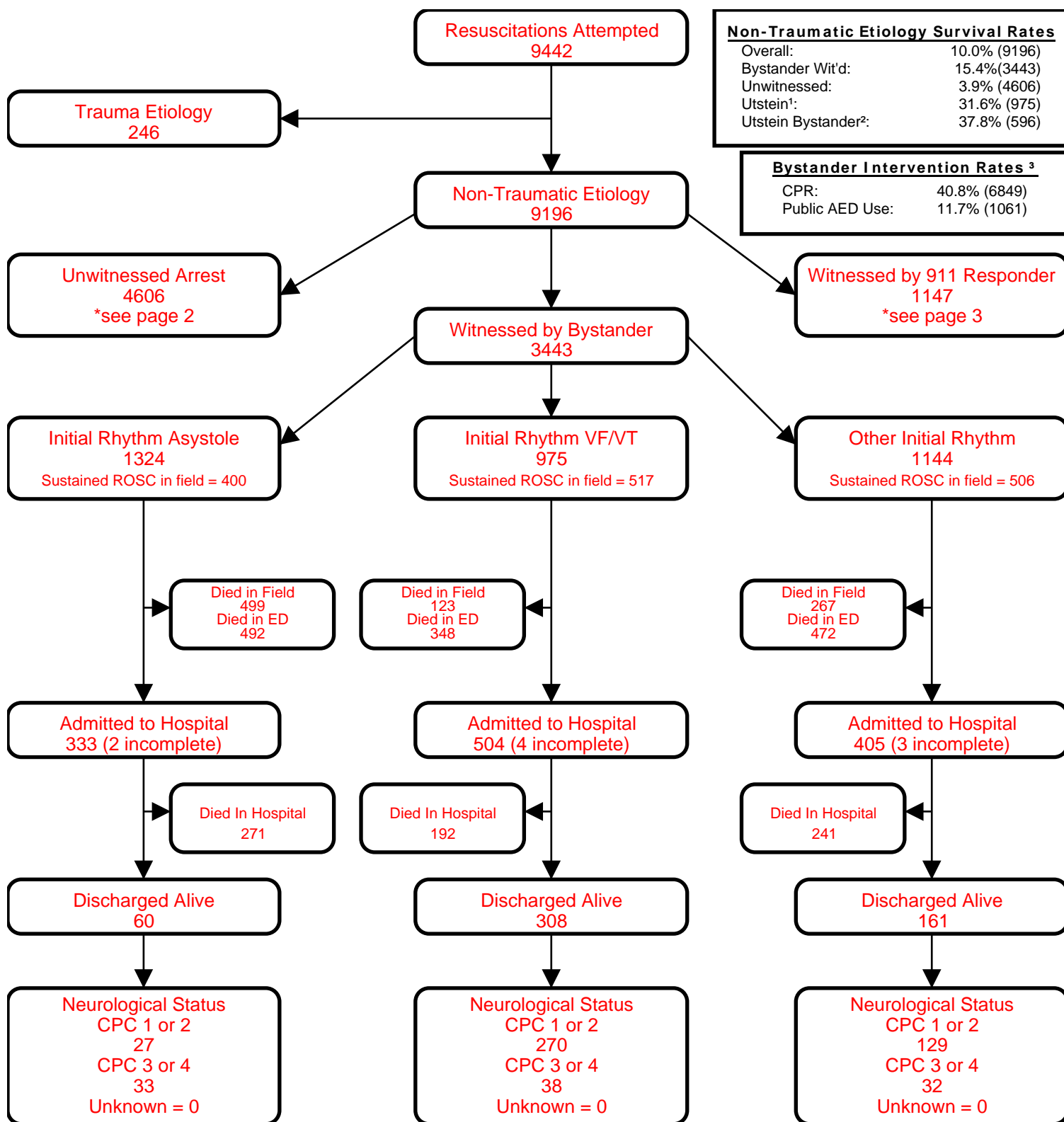


Utstein Survival Report

National Data



Non-Traumatic Etiology Survival Rates	
Overall:	10.0% (9196)
Bystander Wit'd:	15.4%(3443)
Unwitnessed:	3.9% (4606)
Utstein ¹ :	31.6% (975)
Utstein Bystander ² :	37.8% (596)

Bystander Intervention Rates ³	
CPR:	40.8% (6849)
Public AED Use:	11.7% (1061)

¹Utstein: Witnessed by bystander and found in shockable rhythm.

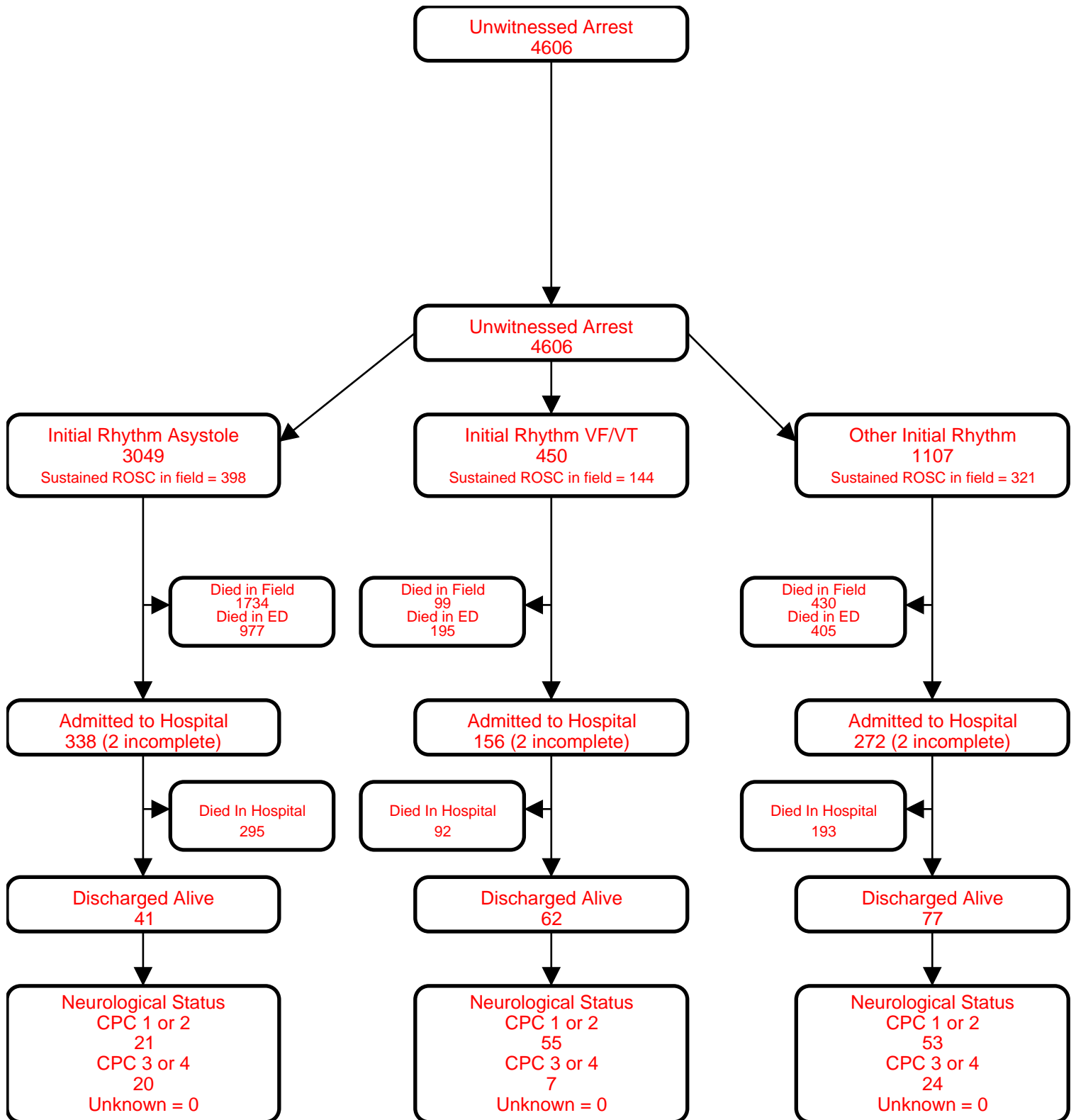
²Utstein Bystander: Witnessed by bystander, found in shockable rhythm, and received some bystander intervention (CPR and/or AED application).

³Bystander 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.

*Only data from the previous calendar year is fully audited. Data from the current calendar year is dynamic.

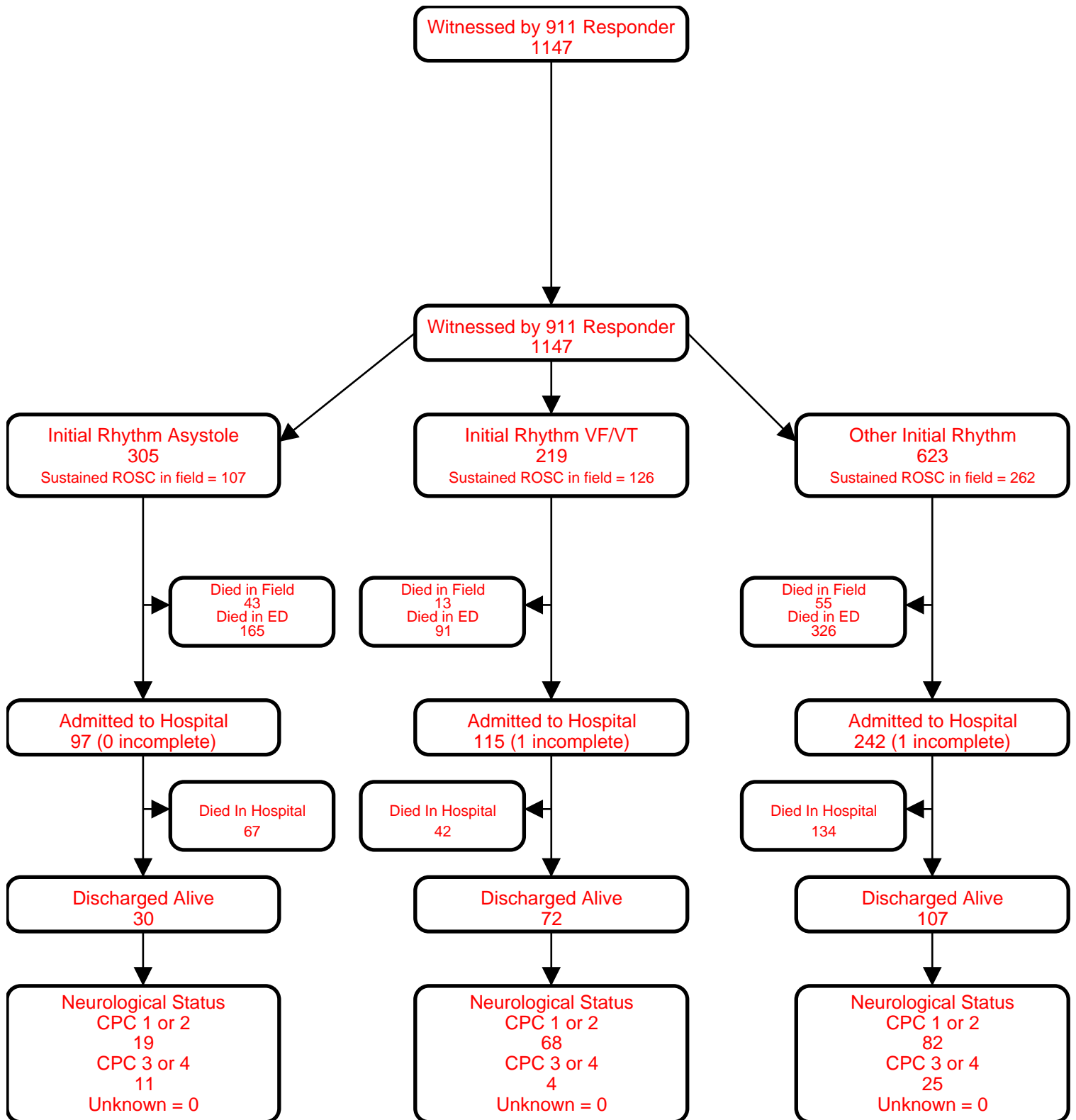
Utstein Survival Report

National Data



Utstein Survival Report

National Data



CARES Survival Report

National Data

	OVERALL N = 8126				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	8126	2652 (32.6)	2405 (29.6)	974 (12.0)	771 (9.5)
Location of Arrest					
Home/Residence	5599 (68.9)	1732 (30.9)	1532 (27.4)	543 (9.7)	410 (7.3)
Nursing Home	902 (11.1)	218 (24.2)	170 (18.8)	44 (4.9)	23 (2.5)
Public Setting	1625 (20.0)	702 (43.2)	703 (43.3)	387 (23.8)	338 (20.8)
Arrest Witnessed Status					
Unwitnessed	4002 (49.3)	855 (21.4)	762 (19.0)	206 (5.1)	137 (3.4)
Bystander witnessed	3100 (38.2)	1357 (43.8)	1195 (38.5)	551 (17.8)	466 (15.0)
911 Responder witnessed	1022 (12.6)	439 (43.0)	447 (43.7)	217 (21.2)	168 (16.4)
Bystander CPR*					
Bystander CPR	3398 (47.8)	1157 (34.0)	1021 (30.0)	445 (13.1)	381 (11.2)
No Bystander CPR	3704 (52.2)	1055 (28.5)	936 (25.3)	312 (8.4)	222 (6.0)
Bystander CPR (excludes nursing home/healthcare facility events)	2537 (41.7)	921 (36.3)	832 (32.8)	378 (14.9)	334 (13.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	3541 (58.3)	1011 (28.6)	903 (25.5)	301 (8.5)	218 (6.2)
Initial Arrest Rhythm					
Shockable	1572 (19.3)	807 (51.3)	793 (50.4)	484 (30.8)	418 (26.6)
Non-shockable	6554 (80.7)	1845 (28.2)	1612 (24.6)	490 (7.5)	353 (5.4)
AED Use					
Bystander AED use*	553 (7.8)	203 (36.7)	183 (33.1)	95 (17.2)	82 (14.8)
Bystander AED use* (excludes nursing home/healthcare facility events)	174 (2.9)	89 (51.1)	92 (52.9)	57 (32.8)	54 (31.0)
Trained provider (First Responder) AED use	1815 (22.3)	583 (32.1)	500 (27.5)	215 (11.8)	184 (10.1)
Utstein					
Witnessed and shockable	1116 (13.7)	625 (56.0)	615 (55.1)	408 (36.6)	364 (32.6)
Bystander witnessed and shockable	938 (11.5)	525 (56.0)	509 (54.3)	332 (35.4)	295 (31.4)
Hypothermia					
Field hypothermia	274 (3.4)	148 (54.0)	129 (47.1)	53 (19.3)	41 (15.0)
In-hospital hypothermia/TTM (among admitted patients)	1082 (45.0)	--	--	376 (34.8)	276 (25.5)

Inclusion Criteria: An out-of-hospital cardiac arrest where resuscitation is attempted by a 911 responder (CPR and/or defibrillation). This would also include patients that received an AED shock by a bystander prior to the arrival of 911 responders.

NOTE: Analysis excludes patients with missing hospital outcome (N=22).

*Bystander CPR and bystander AED use calculations exclude 911 Responder witnessed events.

[†]CPC missing for 0 patients.

CARES Summary Report

Demographic and Survival Characteristics of OHCA

Data	EMS Agency N=162	State N=848	National N=26641
Age	N=162	N=848	N=26632
Mean	61.1	62.9	63.0
Median	63.0	65.0	65.0
Gender (%)	N=162	N=848	N=26636
Female	78 (48.1)	354 (41.7)	10215 (38.4)
Male	84 (51.9)	494 (58.3)	16421 (61.6)
Race (%)	N=162	N=848	N=26639
American-Indian/Alaskan	0 (0.0)	4 (0.5)	122 (0.5)
Asian	0 (0.0)	16 (1.9)	592 (2.2)
Black/African-American	123 (75.9)	413 (48.7)	5827 (21.9)
Hispanic/Latino	1 (0.6)	24 (2.8)	1735 (6.5)
Native Hawaiian/Pacific Islander	0 (0.0)	1 (0.1)	128 (0.5)
White	30 (18.5)	355 (41.9)	13728 (51.5)
Multi-racial	0 (0.0)	0 (0.0)	0 (0.0)
Unknown	8 (4.9)	35 (4.1)	4507 (16.9)
Location of Arrest (%)	N=162	N=848	N=26641
Home/Residence	101 (62.3)	588 (69.3)	18938 (71.1)
Nursing Home	22 (13.6)	118 (13.9)	2957(11.1)
Public Setting	39 (24.1)	142 (16.7)	4746 (17.8)
Arrest witnessed (%)	N=162	N=848	N=26641
Bystander Witnessed	83 (51.2)	324 (38.2)	10056 (37.7)
Witnessed by 911 Responder	23 (14.2)	118 (13.9)	3290 (12.3)
Unwitnessed	56 (34.6)	406 (47.9)	13295 (49.9)
Who Initiated CPR? (%)	N=162	N=848	N=26639
Not Applicable	0 (0.0)	0 (0.0)	16 (0.1)
Bystander	45 (27.8)	317 (37.4)	11041 (41.4)
First Responder	52 (32.1)	251 (29.6)	7400 (27.8)
Emergency Medical Services (EMS)	65 (40.1)	280 (33.0)	8182 (30.7)
Was an AED applied prior to EMS arrival? (%)	N=162	N=848	N=26641
Yes	59 (36.4)	295 (34.8)	7579 (28.4)
No	103 (63.6)	553 (65.2)	19062 (71.6)
Who first applied automated external defibrillator? (%)	N=59	N=295	N=7573
Bystander	6 (10.2)	42 (14.2)	1719 (22.7)
First Responder	53 (89.8)	253 (85.8)	5854 (77.3)
Who first defibrillated the patient?* (%)	N=162	N=848	N=26282
Not Applicable	111 (68.5)	620 (73.1)	18262 (69.5)
Bystander	2 (1.2)	9 (1.1)	441 (1.7)
First Responder	15 (9.3)	62 (7.3)	1447 (5.5)
Responding EMS Personnel	34 (21.0)	157 (18.5)	6132 (23.3)
First Arrest Rhythm (%)	N=162	N=848	N=26638
Vfib/Vtach/Unknown Shockable Rhythm	35 (21.6)	153 (18.0)	4810 (18.1)
Asystole	91 (56.2)	425 (50.1)	13562 (50.9)
Idioventricular/PEA	34 (21.0)	200 (23.6)	5959 (22.4)
Unknown Unshockable Rhythm	2 (1.2)	70 (8.3)	2307 (8.7)
Sustained ROSC (%)	N=162	N=848	N=26635
Yes	46 (28.4)	229 (27.0)	8118 (30.5)
No	116 (71.6)	619 (73.0)	18517 (69.5)
Was hypothermia care provided in the field? (%)	N=162	N=848	N=26641
Yes	0 (0.0)	5 (0.6)	924 (3.5)
No	162 (100.0)	843 (99.4)	25717 (96.5)
Pre-hospital Outcome (%)	N=162	N=848	N=26641
Pronounced in the Field	36 (22.2)	86 (10.1)	9651 (36.2)
Pronounced in ED	27 (16.7)	220 (25.9)	3553 (13.3)
Ongoing Resuscitation in ED	99 (61.1)	542 (63.9)	13437 (50.4)
Overall Survival (%)	N=162	N=848	N=26641
Overall Survival to Hospital Admission	40 (24.7)	191 (22.5)	7311 (27.4)
Overall Survival to Hospital Discharge	17 (10.5)	81 (9.6)	2659 (10.0)
With Good or Moderate Cerebral Performance	13 (8.0)	60 (7.1)	2121 (8.0)
Missing hospital outcome	2	2	45
Utstein¹ Survival (%)	N=25	N=83	N=2849
	32.0%	24.1%	31.8%
Utstein Bystander² Survival (%)	N=9	N=51	N=1700
	55.6%	31.4%	36.7%

Inclusion criteria: An out-of-hospital cardiac arrest where resuscitation is attempted by a 911 responder (CPR and/or defibrillation). This would also include patients that received an AED shock by a bystander prior to the arrival of 911 responders.

**This is a new question that was introduced on the 2011 form.*

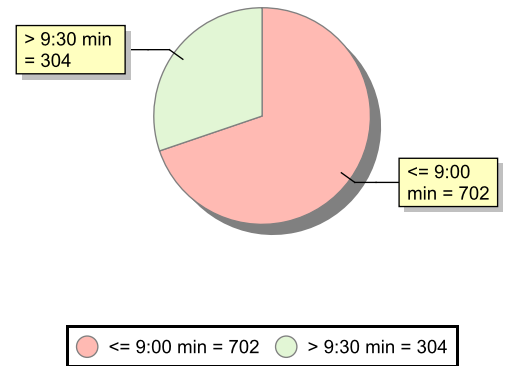
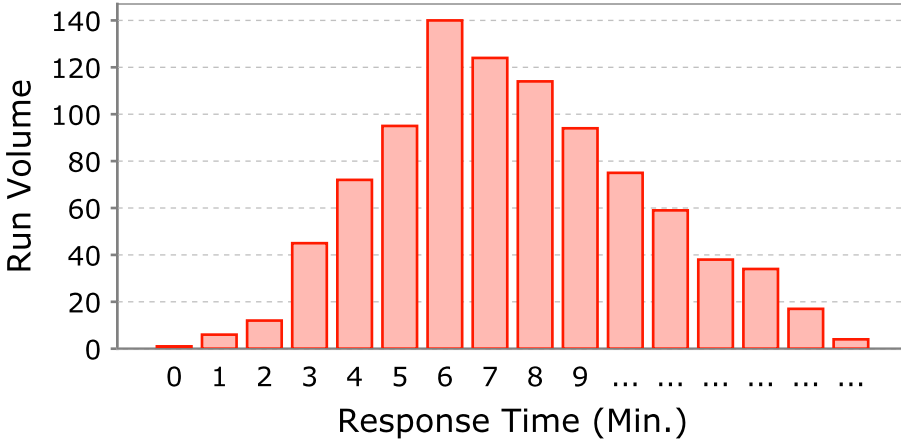
¹Witnessed by bystander and found in a shockable rhythm

²Witnessed by bystander, found in shockable rhythm, and received some bystander intervention (CPR by bystander and/or AED applied by bystander)

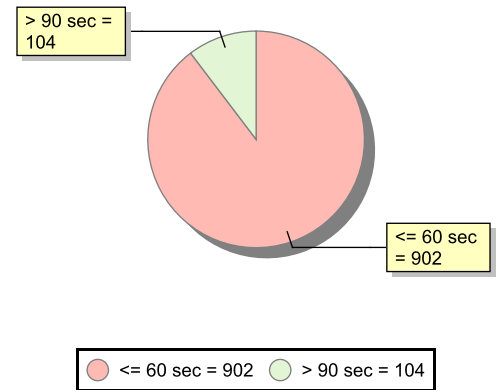
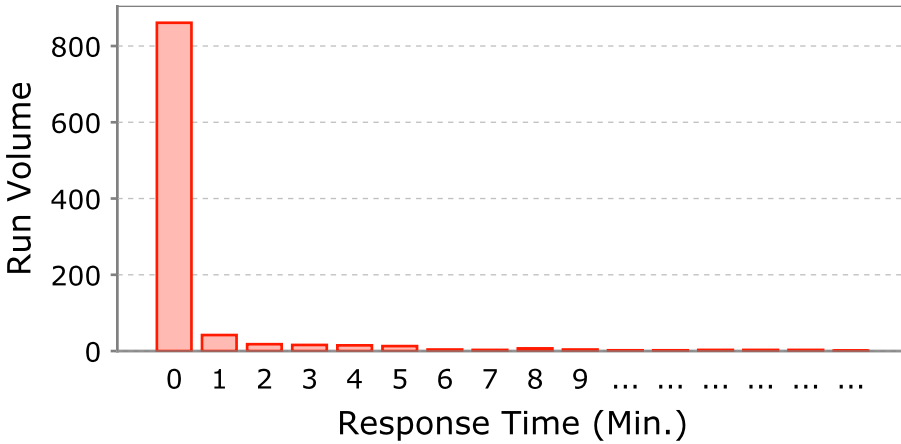
EMS CAD Times

myCARES powered by Physio-Control

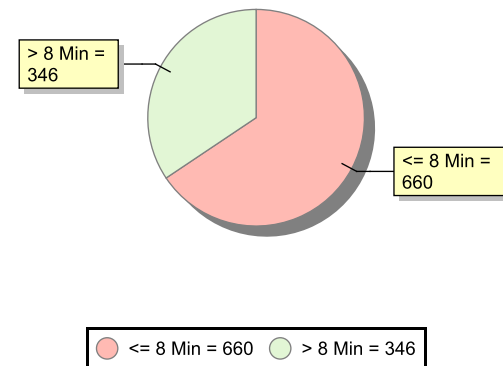
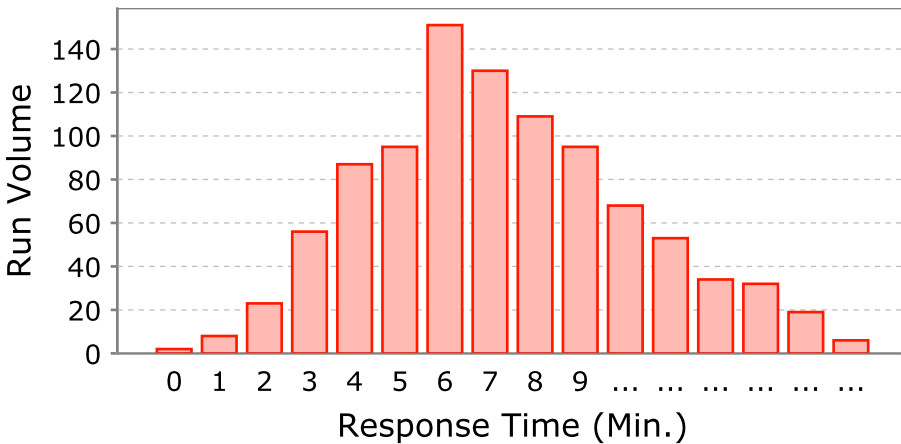
EMS Times: 911 to Arrival



EMS Times: 911 to Dispatch



EMS Times: Dispatch to Arrival

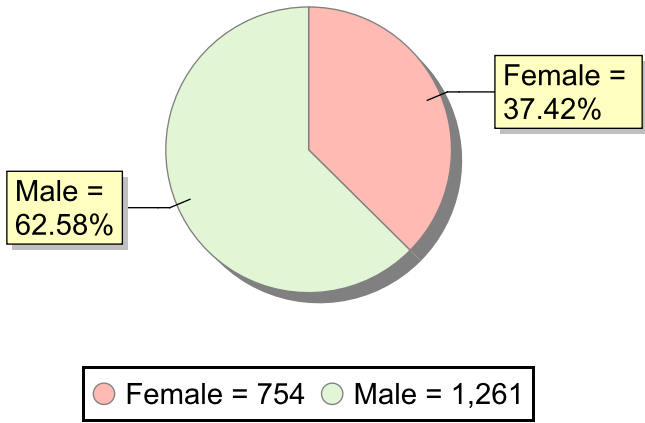


PLEASE NOTE: From 2005-2012, CARES collected arrests of presumed cardiac etiology. In 2013, CARES expanded to include all non-traumatic arrests.

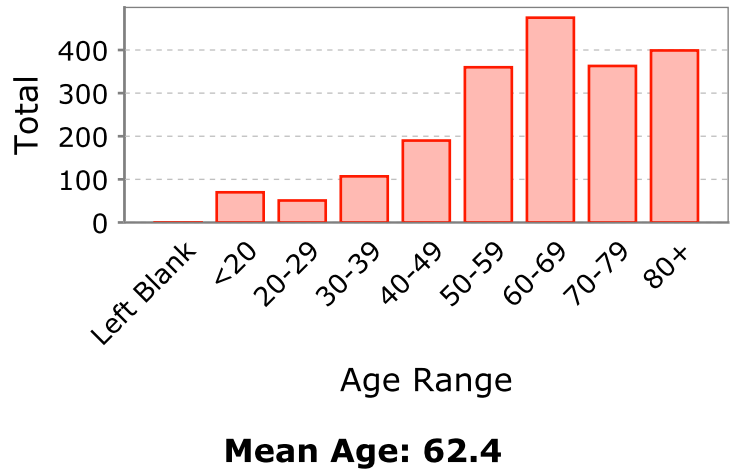
Demographics

Sample Report

Gender



Age



Location Type	Count
Home/Residence	1420 - 70.5%
Nursing Home	195 - 9.7%
Public/Commercial Building	152 - 7.5%
Street/Hwy	97 - 4.8%
Healthcare Facility	92 - 4.6%
Place of Recreation	29 - 1.4%
Transport Center	14 - 0.7%
Industrial Place	14 - 0.7%
Other	2 - 0.1%

PLEASE NOTE: From 2005-2012, CARES collected arrests of presumed cardiac etiology. In 2013, CARES expanded to include all non-traumatic arrests.