

# CARES Survival Report

Incident State: PA | Date of Arrest: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

	OVERALL N = 66210				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	66210	19140 (28.9)	16836 (25.4)	5677 (8.6)	4492 (6.8)
<b>Location of Arrest</b>					
Home/Residence	45560 (68.8)	12583 (27.6)	10908 (23.9)	3256 (7.1)	2547 (5.6)
Nursing Home	7683 (11.6)	1754 (22.8)	1211 (15.8)	283 (3.7)	127 (1.7)
Public Setting	12967 (19.6)	4803 (37.0)	4717 (36.4)	2138 (16.5)	1818 (14.0)
<b>Arrest Witnessed Status</b>					
Unwitnessed	32429 (49.0)	6154 (19.0)	5374 (16.6)	1192 (3.7)	861 (2.7)
Bystander witnessed	25901 (39.1)	9780 (37.8)	8474 (32.7)	3328 (12.8)	2707 (10.5)
911 Responder witnessed	7876 (11.9)	3206 (40.7)	2987 (37.9)	1157 (14.7)	924 (11.7)
<b>Bystander CPR*</b>					
Bystander CPR	25030 (42.9)	7303 (29.2)	6190 (24.7)	2536 (10.1)	2131 (8.5)
No Bystander CPR	33299 (57.1)	8631 (25.9)	7658 (23.0)	1984 (6.0)	1437 (4.3)
Bystander CPR (excludes nursing home/healthcare facility events)	16626 (33.9)	5185 (31.2)	4630 (27.8)	2034 (12.2)	1803 (10.8)
No Bystander CPR (excludes nursing home/healthcare facility events)	32434 (66.1)	8414 (25.9)	7492 (23.1)	1947 (6.0)	1413 (4.4)
<b>Initial Arrest Rhythm</b>					
Shockable	10818 (16.3)	5029 (46.5)	4731 (43.7)	2770 (25.6)	2459 (22.7)
Non-shockable	55384 (83.7)	14109 (25.5)	12100 (21.8)	2902 (5.2)	2029 (3.7)
<b>AED Use</b>					
Bystander AED use*	6807 (11.7)	1914 (28.1)	1534 (22.5)	689 (10.1)	543 (8.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	1372 (2.8)	539 (39.3)	519 (37.8)	338 (24.6)	316 (23.0)
Trained provider (First Responder) AED use	19161 (28.9)	5233 (27.3)	4608 (24.0)	1511 (7.9)	1228 (6.4)
<b>Utstein</b>					
Witnessed and shockable	7980 (12.1)	4096 (51.3)	3876 (48.6)	2405 (30.1)	2168 (27.2)
Bystander witnessed and shockable	6706 (10.1)	3360 (50.1)	3187 (47.5)	1920 (28.6)	1707 (25.5)
<b>Hypothermia</b>					
Field hypothermia	727 (1.1)	528 (72.6)	412 (56.7)	161 (22.1)	140 (19.3)
In-hospital hypothermia/TTM (among admitted patients)	7647 (45.4)	--	--	2171 (28.4)	1482 (19.4)

**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=199).

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

<sup>†</sup>CPC missing for 7 patients.

# CARES Survival Report

Incident State: PA | Date of Arrest: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

	Age = <1 years N = 785				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	785	102 (13.0)	146 (18.6)	56 (7.1)	47 (6.0)
<b>Location of Arrest</b>					
Home/Residence	696 (88.7)	84 (12.1)	124 (17.8)	45 (6.5)	37 (5.3)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	89 (11.3)	18 (20.2)	22 (24.7)	11 (12.4)	10 (11.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	617 (78.6)	43 (7.0)	76 (12.3)	18 (2.9)	12 (1.9)
Bystander witnessed	141 (18.0)	51 (36.2)	58 (41.1)	33 (23.4)	30 (21.3)
911 Responder witnessed	27 (3.4)	8 (29.6)	12 (44.4)	5 (18.5)	5 (18.5)
<b>Bystander CPR*</b>					
Bystander CPR	282 (37.2)	49 (17.4)	63 (22.3)	31 (11.0)	27 (9.6)
No Bystander CPR	476 (62.8)	45 (9.5)	71 (14.9)	20 (4.2)	15 (3.2)
Bystander CPR (excludes nursing home/healthcare facility events)	276 (36.8)	47 (17.0)	61 (22.1)	30 (10.9)	26 (9.4)
No Bystander CPR (excludes nursing home/healthcare facility events)	475 (63.2)	45 (9.5)	71 (14.9)	20 (4.2)	15 (3.2)
<b>Initial Arrest Rhythm</b>					
Shockable	25 (3.2)	7 (28.0)	6 (24.0)	4 (16.0)	4 (16.0)
Non-shockable	760 (96.8)	95 (12.5)	140 (18.4)	52 (6.8)	43 (5.7)
<b>AED Use</b>					
Bystander AED use*	5 (0.7)	3 (60.0)	3 (60.0)	1 (20.0)	1 (20.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	2 (0.3)	2 (100.0)	2 (100.0)	1 (50.0)	1 (50.0)
Trained provider (First Responder) AED use	160 (20.4)	14 (8.8)	23 (14.4)	7 (4.4)	6 (3.8)
<b>Utstein</b>					
Witnessed and shockable	12 (1.5)	5 (41.7)	5 (41.7)	4 (33.3)	4 (33.3)
Bystander witnessed and shockable	9 (1.1)	4 (44.4)	3 (33.3)	3 (33.3)	3 (33.3)
<b>Hypothermia</b>					
Field hypothermia	6 (0.8)	2 (33.3)	2 (33.3)	1 (16.7)	1 (16.7)
In-hospital hypothermia/TTM (among admitted patients)	46 (31.5)	--	--	16 (34.8)	12 (26.1)

**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=10).

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

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

Incident State: PA | Date of Arrest: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

	Age = 1 - 12 years N = 486				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	486	136 (28.0)	179 (36.8)	71 (14.6)	55 (11.3)
<b>Location of Arrest</b>					
Home/Residence	391 (80.5)	99 (25.3)	131 (33.5)	51 (13.0)	37 (9.5)
Nursing Home	2 (0.4)	2 (100.0)	2 (100.0)	0 (0.0)	0 (0.0)
Public Setting	93 (19.1)	35 (37.6)	46 (49.5)	20 (21.5)	18 (19.4)
<b>Arrest Witnessed Status</b>					
Unwitnessed	302 (62.1)	64 (21.2)	86 (28.5)	25 (8.3)	16 (5.3)
Bystander witnessed	162 (33.3)	60 (37.0)	79 (48.8)	39 (24.1)	35 (21.6)
911 Responder witnessed	22 (4.5)	12 (54.5)	14 (63.6)	7 (31.8)	4 (18.2)
<b>Bystander CPR*</b>					
Bystander CPR	240 (51.7)	76 (31.7)	94 (39.2)	44 (18.3)	40 (16.7)
No Bystander CPR	224 (48.3)	48 (21.4)	71 (31.7)	20 (8.9)	11 (4.9)
Bystander CPR (excludes nursing home/healthcare facility events)	223 (50.0)	68 (30.5)	87 (39.0)	41 (18.4)	38 (17.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	223 (50.0)	48 (21.5)	71 (31.8)	20 (9.0)	11 (4.9)
<b>Initial Arrest Rhythm</b>					
Shockable	23 (4.7)	12 (52.2)	14 (60.9)	11 (47.8)	8 (34.8)
Non-shockable	463 (95.3)	124 (26.8)	165 (35.6)	60 (13.0)	47 (10.2)
<b>AED Use</b>					
Bystander AED use*	15 (3.2)	8 (53.3)	9 (60.0)	7 (46.7)	6 (40.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	6 (1.3)	3 (50.0)	4 (66.7)	4 (66.7)	4 (66.7)
Trained provider (First Responder) AED use	126 (25.9)	30 (23.8)	51 (40.5)	12 (9.5)	6 (4.8)
<b>Utstein</b>					
Witnessed and shockable	14 (2.9)	8 (57.1)	11 (78.6)	9 (64.3)	7 (50.0)
Bystander witnessed and shockable	14 (2.9)	8 (57.1)	11 (78.6)	9 (64.3)	7 (50.0)
<b>Hypothermia</b>					
Field hypothermia	7 (1.4)	3 (42.9)	4 (57.1)	0 (0.0)	0 (0.0)
In-hospital hypothermia/TTM (among admitted patients)	56 (31.3)	--	--	21 (37.5)	11 (19.6)

**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=5).

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

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

Incident State: PA | Date of Arrest: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

Age = 13 - 18 years					
N = 272					
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	272	103 (37.9)	105 (38.6)	45 (16.5)	36 (13.2)
<b>Location of Arrest</b>					
Home/Residence	201 (73.9)	72 (35.8)	73 (36.3)	24 (11.9)	17 (8.5)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	71 (26.1)	31 (43.7)	32 (45.1)	21 (29.6)	19 (26.8)
<b>Arrest Witnessed Status</b>					
Unwitnessed	153 (56.2)	39 (25.5)	45 (29.4)	12 (7.8)	9 (5.9)
Bystander witnessed	95 (34.9)	55 (57.9)	52 (54.7)	29 (30.5)	26 (27.4)
911 Responder witnessed	24 (8.8)	9 (37.5)	8 (33.3)	4 (16.7)	1 (4.2)
<b>Bystander CPR*</b>					
Bystander CPR	130 (52.4)	54 (41.5)	52 (40.0)	24 (18.5)	20 (15.4)
No Bystander CPR	118 (47.6)	40 (33.9)	45 (38.1)	17 (14.4)	15 (12.7)
Bystander CPR (excludes nursing home/healthcare facility events)	126 (51.6)	53 (42.1)	50 (39.7)	23 (18.3)	20 (15.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	118 (48.4)	40 (33.9)	45 (38.1)	17 (14.4)	15 (12.7)
<b>Initial Arrest Rhythm</b>					
Shockable	50 (18.5)	31 (62.0)	27 (54.0)	24 (48.0)	24 (48.0)
Non-shockable	221 (81.5)	71 (32.1)	77 (34.8)	20 (9.0)	11 (5.0)
<b>AED Use</b>					
Bystander AED use*	18 (7.3)	13 (72.2)	13 (72.2)	10 (55.6)	9 (50.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	16 (6.6)	12 (75.0)	12 (75.0)	9 (56.2)	9 (56.2)
Trained provider (First Responder) AED use	96 (35.3)	42 (43.8)	43 (44.8)	16 (16.7)	14 (14.6)
<b>Utstein</b>					
Witnessed and shockable	39 (14.3)	24 (61.5)	20 (51.3)	20 (51.3)	20 (51.3)
Bystander witnessed and shockable	37 (13.6)	23 (62.2)	19 (51.4)	19 (51.4)	19 (51.4)
<b>Hypothermia</b>					
Field hypothermia	3 (1.1)	3 (100.0)	3 (100.0)	2 (66.7)	1 (33.3)
In-hospital hypothermia/TTM (among admitted patients)	41 (39.0)	--	--	16 (39.0)	14 (34.1)

**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=2).

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

<sup>†</sup>CPC missing for 0 patients.

# CARES Survival Report

Incident State: PA | Date of Arrest: 01/01/13 - 12/31/23 | Non-Traumatic Etiology

	Age = >18 years N = 64630				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 <sup>†</sup> (%)
<b>Total</b>	64630	18787 (29.1)	16396 (25.4)	5497 (8.5)	4347 (6.7)
<b>Location of Arrest</b>					
Home/Residence	44244 (68.5)	12318 (27.8)	10571 (23.9)	3129 (7.1)	2450 (5.5)
Nursing Home	7679 (11.9)	1752 (22.8)	1209 (15.7)	283 (3.7)	127 (1.7)
Public Setting	12707 (19.7)	4717 (37.1)	4616 (36.3)	2085 (16.4)	1770 (13.9)
<b>Arrest Witnessed Status</b>					
Unwitnessed	31349 (48.5)	6006 (19.2)	5165 (16.5)	1135 (3.6)	822 (2.6)
Bystander witnessed	25481 (39.4)	9609 (37.7)	8281 (32.5)	3224 (12.7)	2614 (10.3)
911 Responder witnessed	7796 (12.1)	3172 (40.7)	2949 (37.8)	1138 (14.6)	911 (11.7)
<b>Bystander CPR*</b>					
Bystander CPR	24369 (42.9)	7123 (29.2)	5980 (24.5)	2436 (10.0)	2044 (8.4)
No Bystander CPR	32460 (57.1)	8492 (26.2)	7466 (23.0)	1923 (5.9)	1392 (4.3)
Bystander CPR (excludes nursing home/healthcare facility events)	15995 (33.6)	5016 (31.4)	4431 (27.7)	1939 (12.1)	1719 (10.7)
No Bystander CPR (excludes nursing home/healthcare facility events)	31597 (66.4)	8275 (26.2)	7300 (23.1)	1886 (6.0)	1368 (4.3)
<b>Initial Arrest Rhythm</b>					
Shockable	10719 (16.6)	4979 (46.5)	4684 (43.7)	2731 (25.5)	2423 (22.6)
Non-shockable	53904 (83.4)	13807 (25.6)	11708 (21.7)	2762 (5.1)	1921 (3.6)
<b>AED Use</b>					
Bystander AED use*	6766 (11.9)	1890 (27.9)	1509 (22.3)	671 (9.9)	527 (7.8)
Bystander AED use* (excludes nursing home/healthcare facility events)	1348 (2.8)	522 (38.7)	501 (37.2)	324 (24.0)	302 (22.4)
Trained provider (First Responder) AED use	18778 (29.1)	5147 (27.4)	4491 (23.9)	1476 (7.9)	1202 (6.4)
<b>Utstein</b>					
Witnessed and shockable	7914 (12.2)	4059 (51.3)	3840 (48.5)	2372 (30.0)	2137 (27.0)
Bystander witnessed and shockable	6645 (10.3)	3325 (50.0)	3154 (47.5)	1889 (28.4)	1678 (25.3)
<b>Hypothermia</b>					
Field hypothermia	711 (1.1)	520 (73.1)	403 (56.7)	158 (22.2)	138 (19.4)
In-hospital hypothermia/TTM (among admitted patients)	7501 (45.7)	--	--	2115 (28.2)	1443 (19.2)

**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=182).

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

<sup>†</sup>CPC missing for 7 patients.