

# CARES Survival Report

## All Agencies/National Data

Service Date: From 1/1/14 Through 12/31/14 | Non-Traumatic Etiology

	OVERALL N = 45284				
	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>	45284	14460 (31.9)	12859 (28.4)	4903 (10.8)	3849 (8.5)
<b>Location of Arrest</b>					
Home/Residence	31714 (70.0)	9589 (30.2)	8424 (26.6)	2827 (8.9)	2159 (6.8)
Nursing Home	4792 (10.6)	1295 (27.0)	899 (18.8)	214 (4.5)	105 (2.2)
Public Setting	8774 (19.4)	3576 (40.8)	3535 (40.3)	1862 (21.2)	1585 (18.1)
<b>Arrest Witnessed Status</b>					
Unwitnessed	22786 (50.3)	4915 (21.6)	4220 (18.5)	1123 (4.9)	797 (3.5)
Bystander witnessed	17027 (37.6)	7231 (42.5)	6410 (37.6)	2757 (16.2)	2224 (13.1)
911 Responder witnessed	5466 (12.1)	2310 (42.3)	2225 (40.7)	1020 (18.7)	826 (15.1)
<b>Bystander CPR*</b>					
Bystander CPR	18234 (45.8)	6166 (33.8)	5341 (29.3)	2264 (12.4)	1840 (10.1)
No Bystander CPR	21579 (54.2)	5982 (27.7)	5291 (24.5)	1618 (7.5)	1182 (5.5)
Bystander CPR (excludes nursing home/healthcare facility events)	13074 (39.0)	4614 (35.3)	4181 (32.0)	1899 (14.5)	1601 (12.2)
No Bystander CPR (excludes nursing home/healthcare facility events)	20452 (61.0)	5659 (27.7)	5067 (24.8)	1567 (7.7)	1158 (5.7)
<b>Initial Arrest Rhythm</b>					
Shockable	9211 (20.3)	4515 (49.0)	4399 (47.8)	2702 (29.3)	2351 (25.5)
Non-shockable	36072 (79.7)	9944 (27.6)	8459 (23.5)	2200 (6.1)	1497 (4.2)
<b>AED Use</b>					
Bystander AED use*	2213 (5.6)	891 (40.3)	782 (35.3)	419 (18.9)	359 (16.2)
Bystander AED use* (excludes nursing home/healthcare facility events)	790 (2.4)	388 (49.1)	373 (47.2)	257 (32.5)	238 (30.1)
Trained provider (First Responder) AED use	10035 (22.2)	3238 (32.3)	2682 (26.7)	1039 (10.4)	840 (8.4)
<b>Utstein</b>					
Witnessed and shockable	6551 (14.5)	3533 (53.9)	3441 (52.5)	2235 (34.1)	1974 (30.1)
Bystander witnessed and shockable	5467 (12.1)	2902 (53.1)	2817 (51.5)	1792 (32.8)	1571 (28.7)
<b>Hypothermia</b>					
Field hypothermia	5495 (12.1)	3737 (68.0)	2991 (54.4)	1069 (19.5)	784 (14.3)
In-hospital hypothermia (among admitted patients)	5669 (44.1)	--	--	1998 (35.2)	1469 (25.9)

**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=217).

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

<sup>†</sup>CPC missing for 113 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 1/1/14 Through 12/31/14 | Non-Traumatic Etiology

	Age = ≤1 years N = 725				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
<b>Total</b>	725	84 (11.6)	137 (18.9)	48 (6.6)	41 (5.7)
<b>Location of Arrest</b>					
Home/Residence	659 (1.5)	71 (10.8)	120 (18.2)	43 (6.5)	36 (5.5)
Nursing Home	4 (0.0)	1 (25.0)	1 (25.0)	0 (0.0)	0 (0.0)
Public Setting	61 (0.1)	12 (19.7)	16 (26.2)	5 (8.2)	5 (8.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	591 (1.3)	44 (7.4)	86 (14.6)	21 (3.6)	17 (2.9)
Bystander witnessed	115 (0.3)	35 (30.4)	48 (41.7)	27 (23.5)	24 (20.9)
911 Responder witnessed	19 (0.0)	5 (26.3)	3 (15.8)	0 (0.0)	0 (0.0)
<b>Bystander CPR*</b>					
Bystander CPR	339 (0.9)	38 (11.2)	65 (19.2)	23 (6.8)	19 (5.6)
No Bystander CPR	367 (0.9)	41 (11.2)	69 (18.8)	25 (6.8)	22 (6.0)
Bystander CPR (excludes nursing home/healthcare facility events)	330 (1.0)	35 (10.6)	61 (18.5)	22 (6.7)	18 (5.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	363 (1.1)	39 (10.7)	67 (18.5)	25 (6.9)	22 (6.1)
<b>Initial Arrest Rhythm</b>					
Shockable	17 (0.0)	7 (41.2)	8 (47.1)	5 (29.4)	5 (29.4)
Non-shockable	707 (1.6)	76 (10.7)	128 (18.1)	42 (5.9)	35 (5.0)
<b>AED Use</b>					
Bystander AED use*	4 (0.0)	2 (50.0)	2 (50.0)	1 (25.0)	1 (25.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	4 (0.0)	2 (50.0)	2 (50.0)	1 (25.0)	1 (25.0)
Trained provider (First Responder) AED use	73 (10.1)	16 (21.9)	19 (26.0)	8 (11.0)	7 (9.6)
<b>Utstein</b>					
Witnessed and shockable	11 (1.5)	7 (63.6)	6 (54.5)	4 (36.4)	4 (36.4)
Bystander witnessed and shockable	10 (1.4)	7 (70.0)	6 (60.0)	4 (40.0)	4 (40.0)
<b>Hypothermia</b>					
Field hypothermia	12 (0.0)	3 (25.0)	4 (33.3)	2 (16.7)	2 (16.7)
In-hospital hypothermia (among admitted patients)	21 (15.3)	--	--	7 (33.3)	5 (23.8)

**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=15).

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

†CPC missing for 0 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 1/1/14 Through 12/31/14 | Non-Traumatic Etiology

	Age = >1 - 12 years N = 267				
	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>	267	73 (27.3)	94 (35.2)	39 (14.6)	29 (10.9)
<b>Location of Arrest</b>					
Home/Residence	206 (0.5)	43 (20.9)	60 (29.1)	22 (10.7)	16 (7.8)
Nursing Home	0 (0.0)	0 (NaN)	0 (NaN)	0 (NaN)	0 (NaN)
Public Setting	61 (0.1)	30 (49.2)	34 (55.7)	17 (27.9)	13 (21.3)
<b>Arrest Witnessed Status</b>					
Unwitnessed	163 (0.4)	40 (24.5)	51 (31.3)	19 (11.7)	15 (9.2)
Bystander witnessed	87 (0.2)	31 (35.6)	38 (43.7)	18 (20.7)	13 (14.9)
911 Responder witnessed	17 (0.0)	2 (11.8)	5 (29.4)	2 (11.8)	1 (5.9)
<b>Bystander CPR*</b>					
Bystander CPR	133 (0.3)	43 (32.3)	50 (37.6)	25 (18.8)	20 (15.0)
No Bystander CPR	117 (0.3)	22 (18.8)	30 (25.6)	12 (10.3)	8 (6.8)
Bystander CPR (excludes nursing home/healthcare facility events)	163 (0.5)	47 (28.8)	56 (34.4)	25 (15.3)	20 (12.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	162 (0.5)	22 (13.6)	30 (18.5)	12 (7.4)	8 (4.9)
<b>Initial Arrest Rhythm</b>					
Shockable	26 (0.1)	12 (46.2)	11 (42.3)	9 (34.6)	8 (30.8)
Non-shockable	241 (0.5)	61 (25.3)	83 (34.4)	30 (12.4)	21 (8.7)
<b>AED Use</b>					
Bystander AED use*	8 (0.0)	6 (75.0)	7 (87.5)	4 (50.0)	3 (37.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	8 (0.0)	7 (87.5)	7 (87.5)	4 (50.0)	3 (37.5)
Trained provider (First Responder) AED use	45 (16.9)	15 (33.3)	16 (35.6)	7 (15.6)	4 (8.9)
<b>Utstein</b>					
Witnessed and shockable	20 (7.5)	9 (45.0)	8 (40.0)	8 (40.0)	7 (35.0)
Bystander witnessed and shockable	17 (6.4)	9 (52.9)	8 (47.1)	8 (47.1)	7 (41.2)
<b>Hypothermia</b>					
Field hypothermia	11 (0.0)	7 (63.6)	7 (63.6)	2 (18.2)	1 (9.1)
In-hospital hypothermia (among admitted patients)	30 (31.9)	--	--	12 (40.0)	9 (30.0)

**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=4).

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

<sup>†</sup>CPC missing for 2 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 1/1/14 Through 12/31/14 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 199				
	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>	199	79 (39.7)	89 (44.7)	48 (24.1)	39 (19.6)
<b>Location of Arrest</b>					
Home/Residence	138 (0.3)	48 (34.8)	56 (40.6)	24 (17.4)	19 (13.8)
Nursing Home	1 (0.0)	0 (0.0)	1 (100.0)	0 (0.0)	0 (0.0)
Public Setting	60 (0.1)	31 (51.7)	32 (53.3)	24 (40.0)	20 (33.3)
<b>Arrest Witnessed Status</b>					
Unwitnessed	110 (0.2)	30 (27.3)	37 (33.6)	15 (13.6)	13 (11.8)
Bystander witnessed	70 (0.2)	42 (60.0)	39 (55.7)	28 (40.0)	22 (31.4)
911 Responder witnessed	19 (0.0)	7 (36.8)	13 (68.4)	5 (26.3)	4 (21.1)
<b>Bystander CPR*</b>					
Bystander CPR	95 (0.2)	44 (46.3)	50 (52.6)	31 (32.6)	24 (25.3)
No Bystander CPR	85 (0.2)	28 (32.9)	26 (30.6)	12 (14.1)	11 (12.9)
Bystander CPR (excludes nursing home/healthcare facility events)	92 (0.3)	44 (47.8)	49 (53.3)	31 (33.7)	24 (26.1)
No Bystander CPR (excludes nursing home/healthcare facility events)	84 (0.3)	28 (33.3)	26 (31.0)	12 (14.3)	11 (13.1)
<b>Initial Arrest Rhythm</b>					
Shockable	46 (0.1)	25 (54.3)	31 (67.4)	24 (52.2)	22 (47.8)
Non-shockable	153 (0.3)	54 (35.3)	58 (37.9)	24 (15.7)	17 (11.1)
<b>AED Use</b>					
Bystander AED use*	11 (0.0)	8 (72.7)	9 (81.8)	8 (72.7)	7 (63.6)
Bystander AED use* (excludes nursing home/healthcare facility events)	10 (0.0)	8 (80.0)	8 (80.0)	8 (80.0)	7 (70.0)
Trained provider (First Responder) AED use	44 (22.1)	16 (36.4)	17 (38.6)	9 (20.5)	7 (15.9)
<b>Utstein</b>					
Witnessed and shockable	33 (16.6)	19 (57.6)	22 (66.7)	17 (51.5)	16 (48.5)
Bystander witnessed and shockable	26 (13.1)	16 (61.5)	17 (65.4)	14 (53.8)	13 (50.0)
<b>Hypothermia</b>					
Field hypothermia	18 (0.0)	13 (72.2)	11 (61.1)	5 (27.8)	5 (27.8)
In-hospital hypothermia (among admitted patients)	28 (31.5)	--	--	17 (60.7)	12 (42.9)

**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=1).

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

<sup>†</sup>CPC missing for 1 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 1/1/14 Through 12/31/14 | Non-Traumatic Etiology

	Age = >18 years N = 44031				
	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>	44031	14209 (32.3)	12520 (28.4)	4757 (10.8)	3729 (8.5)
<b>Location of Arrest</b>					
Home/Residence	30671 (67.7)	9419 (30.7)	8176 (26.7)	2733 (8.9)	2083 (6.8)
Nursing Home	4786 (10.6)	1294 (27.0)	897 (18.7)	214 (4.5)	105 (2.2)
Public Setting	8571 (18.9)	3496 (40.8)	3446 (40.2)	1810 (21.1)	1541 (18.0)
<b>Arrest Witnessed Status</b>					
Unwitnessed	21897 (48.4)	4797 (21.9)	4041 (18.5)	1065 (4.9)	749 (3.4)
Bystander witnessed	16727 (36.9)	7116 (42.5)	6276 (37.5)	2679 (16.0)	2160 (12.9)
911 Responder witnessed	5402 (11.9)	2292 (42.4)	2199 (40.7)	1010 (18.7)	818 (15.1)
<b>Bystander CPR*</b>					
Bystander CPR	17643 (44.3)	6029 (34.2)	5159 (29.2)	2180 (12.4)	1772 (10.0)
No Bystander CPR	20981 (52.7)	5886 (28.1)	5160 (24.6)	1566 (7.5)	1138 (5.4)
Bystander CPR (excludes nursing home/healthcare facility events)	12504 (37.3)	4483 (35.9)	4008 (32.1)	1817 (14.5)	1535 (12.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	19861 (59.2)	5565 (28.0)	4938 (24.9)	1515 (7.6)	1114 (5.6)
<b>Initial Arrest Rhythm</b>					
Shockable	9115 (20.1)	4468 (49.0)	4345 (47.7)	2661 (29.2)	2313 (25.4)
Non-shockable	34916 (77.1)	9741 (27.9)	8175 (23.4)	2096 (6.0)	1416 (4.1)
<b>AED Use</b>					
Bystander AED use*	2190 (5.5)	874 (39.9)	764 (34.9)	406 (18.5)	348 (15.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	768 (2.3)	371 (48.3)	356 (46.4)	244 (31.8)	227 (29.6)
Trained provider (First Responder) AED use	9864 (22.4)	3190 (32.3)	2628 (26.6)	1014 (10.3)	821 (8.3)
<b>Utstein</b>					
Witnessed and shockable	6480 (14.7)	3495 (53.9)	3401 (52.5)	2203 (34.0)	1944 (30.0)
Bystander witnessed and shockable	5407 (12.3)	2867 (53.0)	2782 (51.5)	1763 (32.6)	1544 (28.6)
<b>Hypothermia</b>					
Field hypothermia	5449 (12.0)	3712 (68.1)	2965 (54.4)	1059 (19.4)	775 (14.2)
In-hospital hypothermia (among admitted patients)	5582 (44.6)	--	--	1957 (35.1)	1438 (25.8)

**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=196).

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

<sup>†</sup>CPC missing for 110 patients.