

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2016 | Non-Traumatic Etiology

	OVERALL N = 193265				
	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>	193265	62564 (32.4)	55582 (28.8)	20835 (10.8)	16671 (8.6)
<b>Location of Arrest</b>					
Home/Residence	133870 (69.3)	41054 (30.7)	36056 (26.9)	11940 (8.9)	9267 (6.9)
Nursing Home	20701 (10.7)	5581 (27.0)	3903 (18.9)	934 (4.5)	472 (2.3)
Public Setting	38688 (20.0)	15929 (41.2)	15622 (40.4)	7961 (20.6)	6932 (17.9)
<b>Arrest Witnessed Status</b>					
Unwitnessed	97636 (50.5)	21303 (21.8)	18224 (18.7)	4608 (4.7)	3329 (3.4)
Bystander witnessed	72181 (37.4)	31125 (43.1)	27695 (38.4)	11910 (16.5)	9835 (13.6)
911 Responder witnessed	23434 (12.1)	10128 (43.2)	9653 (41.2)	4311 (18.4)	3504 (15.0)
<b>Bystander CPR*</b>					
Bystander CPR	77820 (45.8)	26696 (34.3)	23125 (29.7)	9690 (12.5)	7979 (10.3)
No Bystander CPR	91979 (54.2)	25735 (28.0)	22795 (24.8)	6831 (7.4)	5186 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	56009 (39.2)	20046 (35.8)	18110 (32.3)	8100 (14.5)	6884 (12.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	86855 (60.8)	24332 (28.0)	21780 (25.1)	6571 (7.6)	5031 (5.8)
<b>Initial Arrest Rhythm</b>					
Shockable	38828 (20.1)	19433 (50.0)	18938 (48.8)	11454 (29.5)	10088 (26.0)
Non-shockable	154420 (79.9)	43120 (27.9)	36634 (23.7)	9372 (6.1)	6574 (4.3)
<b>AED Use</b>					
Bystander AED use*	10065 (5.9)	4061 (40.3)	3568 (35.4)	1934 (19.2)	1673 (16.6)
Bystander AED use* (excludes nursing home/healthcare facility events)	3570 (2.5)	1791 (50.2)	1729 (48.4)	1187 (33.2)	1099 (30.8)
Trained provider (First Responder) AED use	44071 (22.8)	13927 (31.6)	11936 (27.1)	4499 (10.2)	3747 (8.5)
<b>Utstein</b>					
Witnessed and shockable	27583 (14.3)	15188 (55.1)	14898 (54.0)	9584 (34.7)	8574 (31.1)
Bystander witnessed and shockable	23048 (11.9)	12585 (54.6)	12339 (53.5)	7748 (33.6)	6877 (29.8)
<b>Hypothermia</b>					
Field hypothermia	19353 (10.0)	12843 (66.4)	10347 (53.5)	3648 (18.8)	2715 (14.0)
In-hospital hypothermia (among admitted patients)	24924 (44.8)	--	--	8666 (34.8)	6661 (26.7)

**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.

NOTE: Analysis excludes patients with missing hospital outcome (N=706).

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

<sup>†</sup>CPC missing for 481 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2016 | Non-Traumatic Etiology

	Age = ≤1 years N = 3194				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
<b>Total</b>	3194	397 (12.4)	571 (17.9)	196 (6.1)	151 (4.7)
<b>Location of Arrest</b>					
Home/Residence	2882 (90.3)	339 (11.8)	499 (17.3)	170 (5.9)	130 (4.5)
Nursing Home	15 (0.5)	1 (6.7)	1 (6.7)	1 (6.7)	1 (6.7)
Public Setting	296 (9.3)	57 (19.3)	71 (24.0)	25 (8.4)	20 (6.8)
<b>Arrest Witnessed Status</b>					
Unwitnessed	2595 (81.2)	211 (8.1)	340 (13.1)	85 (3.3)	59 (2.3)
Bystander witnessed	503 (15.7)	150 (29.8)	193 (38.4)	91 (18.1)	76 (15.1)
911 Responder witnessed	96 (3.0)	36 (37.5)	38 (39.6)	20 (20.8)	16 (16.7)
<b>Bystander CPR*</b>					
Bystander CPR	1476 (47.7)	205 (13.9)	289 (19.6)	107 (7.2)	82 (5.6)
No Bystander CPR	1621 (52.3)	156 (9.6)	244 (15.1)	69 (4.3)	53 (3.3)
Bystander CPR (excludes nursing home/healthcare facility events)	1436 (47.3)	192 (13.4)	278 (19.4)	103 (7.2)	79 (5.5)
No Bystander CPR (excludes nursing home/healthcare facility events)	1601 (52.7)	151 (9.4)	237 (14.8)	66 (4.1)	51 (3.2)
<b>Initial Arrest Rhythm</b>					
Shockable	87 (2.7)	26 (29.9)	27 (31.0)	18 (20.7)	16 (18.4)
Non-shockable	3106 (97.3)	370 (11.9)	543 (17.5)	177 (5.7)	134 (4.3)
<b>AED Use</b>					
Bystander AED use*	14 (0.5)	3 (21.4)	3 (21.4)	1 (7.1)	1 (7.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	9 (0.3)	3 (33.3)	3 (33.3)	1 (11.1)	1 (11.1)
Trained provider (First Responder) AED use	404 (12.6)	50 (12.4)	67 (16.6)	22 (5.4)	17 (4.2)
<b>Utstein</b>					
Witnessed and shockable	44 (1.4)	19 (43.2)	20 (45.5)	14 (31.8)	13 (29.5)
Bystander witnessed and shockable	34 (1.1)	14 (41.2)	15 (44.1)	10 (29.4)	9 (26.5)
<b>Hypothermia</b>					
Field hypothermia	55 (1.7)	17 (30.9)	14 (25.5)	4 (7.3)	3 (5.5)
In-hospital hypothermia (among admitted patients)	85 (14.9)	--	--	26 (30.6)	17 (20.0)

**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=26).

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

†CPC missing for 1 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2016 | Non-Traumatic Etiology

	Age = >1 - 12 years N = 1270				
	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>	1270	339 (26.7)	455 (35.8)	202 (15.9)	146 (11.5)
<b>Location of Arrest</b>					
Home/Residence	987 (77.7)	222 (22.5)	314 (31.8)	114 (11.6)	70 (7.1)
Nursing Home	4 (0.3)	1 (25.0)	1 (25.0)	0 (0.0)	0 (0.0)
Public Setting	279 (22.0)	116 (41.6)	140 (50.2)	88 (31.5)	76 (27.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	775 (61.0)	148 (19.1)	210 (27.1)	69 (8.9)	49 (6.3)
Bystander witnessed	404 (31.8)	164 (40.6)	205 (50.7)	114 (28.2)	86 (21.3)
911 Responder witnessed	91 (7.2)	27 (29.7)	40 (44.0)	19 (20.9)	11 (12.1)
<b>Bystander CPR*</b>					
Bystander CPR	613 (52.0)	196 (32.0)	263 (42.9)	136 (22.2)	103 (16.8)
No Bystander CPR	566 (48.0)	96 (17.0)	152 (26.9)	47 (8.3)	32 (5.7)
Bystander CPR (excludes nursing home/healthcare facility events)	584 (51.0)	205 (35.1)	249 (42.6)	128 (21.9)	99 (17.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	560 (49.0)	95 (17.0)	150 (26.8)	47 (8.4)	32 (5.7)
<b>Initial Arrest Rhythm</b>					
Shockable	93 (7.3)	39 (41.9)	48 (51.6)	37 (39.8)	34 (36.6)
Non-shockable	1177 (92.7)	300 (25.5)	407 (34.6)	165 (14.0)	112 (9.5)
<b>AED Use</b>					
Bystander AED use*	40 (3.4)	15 (37.5)	21 (52.5)	14 (35.0)	13 (32.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	33 (2.9)	18 (54.5)	18 (54.5)	13 (39.4)	12 (36.4)
Trained provider (First Responder) AED use	247 (19.4)	70 (28.3)	88 (35.6)	28 (11.3)	21 (8.5)
<b>Utstein</b>					
Witnessed and shockable	61 (4.8)	30 (49.2)	36 (59.0)	30 (49.2)	28 (45.9)
Bystander witnessed and shockable	52 (4.1)	29 (55.8)	33 (63.5)	28 (53.8)	26 (50.0)
<b>Hypothermia</b>					
Field hypothermia	48 (3.8)	29 (60.4)	28 (58.3)	9 (18.8)	5 (10.4)
In-hospital hypothermia (among admitted patients)	95 (20.9)	--	--	35 (36.8)	25 (26.3)

**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=18).

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

<sup>†</sup>CPC missing for 11 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2016 | Non-Traumatic Etiology

	Age = 13 - 18 years N = 957				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
<b>Total</b>	957	385 (40.2)	420 (43.9)	208 (21.7)	172 (18.0)
<b>Location of Arrest</b>					
Home/Residence	665 (69.5)	225 (33.8)	241 (36.2)	88 (13.2)	64 (9.6)
Nursing Home	2 (0.2)	2 (100.0)	2 (100.0)	1 (50.0)	0 (0.0)
Public Setting	290 (30.3)	158 (54.5)	177 (61.0)	119 (41.0)	108 (37.2)
<b>Arrest Witnessed Status</b>					
Unwitnessed	519 (54.2)	138 (26.6)	156 (30.1)	45 (8.7)	33 (6.4)
Bystander witnessed	358 (37.4)	212 (59.2)	220 (61.5)	142 (39.7)	125 (34.9)
911 Responder witnessed	80 (8.4)	35 (43.8)	44 (55.0)	21 (26.2)	14 (17.5)
<b>Bystander CPR*</b>					
Bystander CPR	469 (53.5)	212 (45.2)	224 (47.8)	125 (26.7)	105 (22.4)
No Bystander CPR	408 (46.5)	138 (33.8)	152 (37.3)	62 (15.2)	53 (13.0)
Bystander CPR (excludes nursing home/healthcare facility events)	456 (53.1)	206 (45.2)	216 (47.4)	121 (26.5)	103 (22.6)
No Bystander CPR (excludes nursing home/healthcare facility events)	403 (46.9)	136 (33.7)	149 (37.0)	61 (15.1)	52 (12.9)
<b>Initial Arrest Rhythm</b>					
Shockable	225 (23.5)	141 (62.7)	153 (68.0)	120 (53.3)	111 (49.3)
Non-shockable	731 (76.5)	243 (33.2)	266 (36.4)	87 (11.9)	60 (8.2)
<b>AED Use</b>					
Bystander AED use*	59 (6.7)	45 (76.3)	51 (86.4)	38 (64.4)	33 (55.9)
Bystander AED use* (excludes nursing home/healthcare facility events)	51 (5.9)	41 (80.4)	44 (86.3)	34 (66.7)	31 (60.8)
Trained provider (First Responder) AED use	245 (25.6)	90 (36.7)	92 (37.6)	45 (18.4)	38 (15.5)
<b>Utstein</b>					
Witnessed and shockable	176 (18.4)	122 (69.3)	129 (73.3)	107 (60.8)	102 (58.0)
Bystander witnessed and shockable	162 (16.9)	116 (71.6)	121 (74.7)	101 (62.3)	96 (59.3)
<b>Hypothermia</b>					
Field hypothermia	91 (9.5)	57 (62.6)	54 (59.3)	25 (27.5)	21 (23.1)
In-hospital hypothermia (among admitted patients)	150 (35.7)	--	--	77 (51.3)	63 (42.0)

**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=11).

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

†CPC missing for 5 patients.

# CARES Survival Report

## All Agencies/National Data

Service Date: From 01/01/2013 Through 12/31/2016 | Non-Traumatic Etiology

	Age = >18 years N = 187605				
	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>	187605	61383 (32.7)	54070 (28.8)	20191 (10.8)	16168 (8.6)
<b>Location of Arrest</b>					
Home/Residence	129168 (68.9)	40227 (31.1)	34957 (27.1)	11546 (8.9)	8985 (7.0)
Nursing Home	20671 (11.0)	5577 (27.0)	3899 (18.9)	932 (4.5)	471 (2.3)
Public Setting	37761 (20.1)	15579 (41.3)	15213 (40.3)	7713 (20.4)	6712 (17.8)
<b>Arrest Witnessed Status</b>					
Unwitnessed	93649 (49.9)	20795 (22.2)	17505 (18.7)	4403 (4.7)	3183 (3.4)
Bystander witnessed	70815 (37.8)	30565 (43.2)	27039 (38.2)	11541 (16.3)	9529 (13.5)
911 Responder witnessed	23127 (12.3)	10015 (43.3)	9516 (41.1)	4241 (18.3)	3453 (14.9)
<b>Bystander CPR*</b>					
Bystander CPR	75187 (45.7)	26038 (34.6)	22321 (29.7)	9305 (12.4)	7674 (10.2)
No Bystander CPR	89260 (54.3)	25325 (28.4)	22224 (24.9)	6642 (7.4)	5039 (5.6)
Bystander CPR (excludes nursing home/healthcare facility events)	53473 (38.8)	19421 (36.3)	17343 (32.4)	7734 (14.5)	6591 (12.3)
No Bystander CPR (excludes nursing home/healthcare facility events)	84171 (61.2)	23930 (28.4)	21221 (25.2)	6386 (7.6)	4887 (5.8)
<b>Initial Arrest Rhythm</b>					
Shockable	38400 (20.5)	19218 (50.0)	18700 (48.7)	11271 (29.4)	9919 (25.8)
Non-shockable	149191 (79.5)	42156 (28.3)	35362 (23.7)	8913 (6.0)	6242 (4.2)
<b>AED Use</b>					
Bystander AED use*	9943 (6.0)	3993 (40.2)	3492 (35.1)	1880 (18.9)	1625 (16.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	3474 (2.5)	1729 (49.8)	1663 (47.9)	1138 (32.8)	1054 (30.3)
Trained provider (First Responder) AED use	43152 (23.0)	13713 (31.8)	11684 (27.1)	4403 (10.2)	3670 (8.5)
<b>Utstein</b>					
Witnessed and shockable	27284 (14.5)	15009 (55.0)	14704 (53.9)	9426 (34.5)	8424 (30.9)
Bystander witnessed and shockable	22784 (12.1)	12418 (54.5)	12161 (53.4)	7602 (33.4)	6739 (29.6)
<b>Hypothermia</b>					
Field hypothermia	19148 (10.2)	12734 (66.5)	10244 (53.5)	3607 (18.8)	2683 (14.0)
In-hospital hypothermia (among admitted patients)	24571 (45.4)	--	--	8514 (34.7)	6544 (26.6)

**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=641).

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

<sup>†</sup>CPC missing for 462 patients.