

CARES Survival Report

All Agencies/National Data

Service Date: From 10/01/2005 Through 12/31/2015 | Presumed Cardiac Etiology

	OVERALL N = 191315				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	191315	58183 (30.4)	51661 (27.0)	19797 (10.3)	15439 (8.1)
Location of Arrest					
Home/Residence	131331 (68.8)	37508 (28.6)	32836 (25.0)	10835 (8.3)	8144 (6.2)
Nursing Home	22362 (11.7)	5587 (25.0)	3914 (17.5)	896 (4.0)	429 (1.9)
Public Setting	37118 (19.5)	14808 (39.9)	14672 (39.5)	7934 (21.4)	6804 (18.3)
Arrest Witnessed Status					
Unwitnessed	98349 (51.4)	20002 (20.3)	17079 (17.4)	4138 (4.2)	2832 (2.9)
Bystander witnessed	72681 (38.0)	29601 (40.7)	26607 (36.6)	11735 (16.1)	9428 (13.0)
911 Responder witnessed	20274 (10.6)	8575 (42.3)	7970 (39.3)	3921 (19.3)	3176 (15.7)
Bystander CPR*					
Bystander CPR	74536 (43.6)	24459 (32.8)	21167 (28.4)	9028 (12.1)	7253 (9.7)
No Bystander CPR	96438 (56.4)	25135 (26.1)	22505 (23.3)	6840 (7.1)	5004 (5.2)
Bystander CPR (excludes nursing home/healthcare facility events)	52205 (36.6)	17981 (34.4)	16243 (31.1)	7466 (14.3)	6221 (11.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	90607 (63.4)	23685 (26.1)	21462 (23.7)	6594 (7.3)	4855 (5.4)
Initial Arrest Rhythm					
Shockable	43927 (23.0)	21411 (48.7)	21217 (48.3)	12931 (29.4)	11078 (25.2)
Non-shockable	147364 (77.0)	36768 (25.0)	30438 (20.7)	6864 (4.7)	4359 (3.0)
AED Use					
Bystander AED use*	8827 (5.2)	3632 (41.1)	3246 (36.8)	1872 (21.2)	1610 (18.2)
Bystander AED use* (excludes nursing home/healthcare facility events)	3445 (2.4)	1730 (50.2)	1677 (48.7)	1224 (35.5)	1109 (32.2)
Trained provider (First Responder) AED use	43038 (22.5)	12793 (29.7)	10985 (25.5)	4283 (10.0)	3472 (8.1)
Utstein					
Witnessed and shockable	30909 (16.2)	16618 (53.8)	16512 (53.4)	10739 (34.7)	9354 (30.3)
Bystander witnessed and shockable	25926 (13.6)	13716 (52.9)	13629 (52.6)	8572 (33.1)	7385 (28.5)
Hypothermia					
Field hypothermia	21450 (12.8)	14737 (68.7)	11770 (54.9)	4369 (20.4)	3237 (15.1)
In-hospital hypothermia (among admitted patients)	22194 (43.0)	--	--	8438 (38.0)	6506 (29.3)

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=867).

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

[†]CPC missing for 1085 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 10/01/2005 Through 12/31/2015 | Presumed Cardiac Etiology

	Age = ≤1 years N = 2126				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
Total	2126	219 (10.3)	308 (14.5)	96 (4.5)	61 (2.9)
Location of Arrest					
Home/Residence	1913 (90.0)	180 (9.4)	259 (13.5)	79 (4.1)	48 (2.5)
Nursing Home	20 (0.9)	0 (0.0)	1 (5.0)	0 (0.0)	0 (0.0)
Public Setting	193 (9.1)	39 (20.2)	48 (24.9)	17 (8.8)	13 (6.7)
Arrest Witnessed Status					
Unwitnessed	1730 (81.4)	113 (6.5)	186 (10.8)	43 (2.5)	22 (1.3)
Bystander witnessed	325 (15.3)	92 (28.3)	105 (32.3)	45 (13.8)	33 (10.2)
911 Responder witnessed	71 (3.3)	14 (19.7)	17 (23.9)	8 (11.3)	6 (8.5)
Bystander CPR*					
Bystander CPR	886 (43.1)	94 (10.6)	123 (13.9)	39 (4.4)	26 (2.9)
No Bystander CPR	1169 (56.9)	111 (9.5)	168 (14.4)	49 (4.2)	29 (2.5)
Bystander CPR (excludes nursing home/healthcare facility events)	844 (42.1)	85 (10.1)	115 (13.6)	37 (4.4)	25 (3.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	1159 (57.9)	109 (9.4)	164 (14.2)	48 (4.1)	28 (2.4)
Initial Arrest Rhythm					
Shockable	86 (4.1)	29 (33.7)	27 (31.4)	16 (18.6)	15 (17.4)
Non-shockable	2036 (95.9)	190 (9.3)	281 (13.8)	80 (3.9)	46 (2.3)
AED Use					
Bystander AED use*	14 (0.7)	3 (21.4)	4 (28.6)	2 (14.3)	2 (14.3)
Bystander AED use* (excludes nursing home/healthcare facility events)	5 (0.2)	2 (40.0)	3 (60.0)	2 (40.0)	2 (40.0)
Trained provider (First Responder) AED use	207 (9.7)	20 (9.7)	21 (10.1)	9 (4.3)	4 (1.9)
Utstein					
Witnessed and shockable	43 (2.0)	25 (58.1)	23 (53.5)	15 (34.9)	14 (32.6)
Bystander witnessed and shockable	33 (1.6)	21 (63.6)	20 (60.6)	13 (39.4)	12 (36.4)
Hypothermia					
Field hypothermia	61 (3.3)	24 (39.3)	16 (26.2)	5 (8.2)	3 (4.9)
In-hospital hypothermia (among admitted patients)	44 (14.3)	--	--	15 (34.1)	8 (18.2)

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=25).

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

†CPC missing for 9 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 10/01/2005 Through 12/31/2015 | Presumed Cardiac Etiology

	Age = >1 - 12 years N = 686				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	686	142 (20.7)	172 (25.1)	68 (9.9)	48 (7.0)
Location of Arrest					
Home/Residence	573 (83.5)	101 (17.6)	125 (21.8)	35 (6.1)	21 (3.7)
Nursing Home	7 (1.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	106 (15.5)	41 (38.7)	47 (44.3)	33 (31.1)	27 (25.5)
Arrest Witnessed Status					
Unwitnessed	412 (60.1)	44 (10.7)	66 (16.0)	11 (2.7)	7 (1.7)
Bystander witnessed	229 (33.4)	83 (36.2)	91 (39.7)	51 (22.3)	38 (16.6)
911 Responder witnessed	45 (6.6)	15 (33.3)	15 (33.3)	6 (13.3)	3 (6.7)
Bystander CPR*					
Bystander CPR	296 (46.2)	63 (21.3)	91 (30.7)	47 (15.9)	35 (11.8)
No Bystander CPR	345 (53.8)	52 (15.1)	66 (19.1)	15 (4.3)	10 (2.9)
Bystander CPR (excludes nursing home/healthcare facility events)	274 (44.4)	70 (25.5)	82 (29.9)	43 (15.7)	33 (12.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	343 (55.6)	52 (15.2)	66 (19.2)	15 (4.4)	10 (2.9)
Initial Arrest Rhythm					
Shockable	76 (11.1)	38 (50.0)	41 (53.9)	34 (44.7)	31 (40.8)
Non-shockable	610 (88.9)	104 (17.0)	131 (21.5)	34 (5.6)	17 (2.8)
AED Use					
Bystander AED use*	21 (3.3)	9 (42.9)	10 (47.6)	9 (42.9)	8 (38.1)
Bystander AED use* (excludes nursing home/healthcare facility events)	17 (2.8)	11 (64.7)	10 (58.8)	9 (52.9)	8 (47.1)
Trained provider (First Responder) AED use	116 (16.9)	25 (21.6)	27 (23.3)	8 (6.9)	7 (6.0)
Utstein					
Witnessed and shockable	55 (8.0)	32 (58.2)	34 (61.8)	28 (50.9)	26 (47.3)
Bystander witnessed and shockable	47 (6.9)	30 (63.8)	31 (66.0)	27 (57.4)	25 (53.2)
Hypothermia					
Field hypothermia	17 (2.9)	10 (58.8)	10 (58.8)	2 (11.8)	1 (5.9)
In-hospital hypothermia (among admitted patients)	26 (15.1)	--	--	10 (38.5)	10 (38.5)

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=11).

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

[†]CPC missing for 10 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 10/01/2005 Through 12/31/2015 | Presumed Cardiac Etiology

	Age = 13 - 18 years N = 683				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2† (%)
Total	683	259 (37.9)	256 (37.5)	156 (22.8)	133 (19.5)
Location of Arrest					
Home/Residence	451 (66.0)	132 (29.3)	124 (27.5)	55 (12.2)	42 (9.3)
Nursing Home	3 (0.4)	1 (33.3)	0 (0.0)	0 (0.0)	0 (0.0)
Public Setting	229 (33.5)	126 (55.0)	132 (57.6)	101 (44.1)	91 (39.7)
Arrest Witnessed Status					
Unwitnessed	351 (51.4)	82 (23.4)	81 (23.1)	25 (7.1)	16 (4.6)
Bystander witnessed	291 (42.6)	162 (55.7)	157 (54.0)	119 (40.9)	108 (37.1)
911 Responder witnessed	41 (6.0)	15 (36.6)	18 (43.9)	12 (29.3)	9 (22.0)
Bystander CPR*					
Bystander CPR	337 (52.5)	151 (44.8)	150 (44.5)	97 (28.8)	85 (25.2)
No Bystander CPR	305 (47.5)	93 (30.5)	88 (28.9)	47 (15.4)	39 (12.8)
Bystander CPR (excludes nursing home/healthcare facility events)	324 (51.8)	146 (45.1)	146 (45.1)	96 (29.6)	84 (25.9)
No Bystander CPR (excludes nursing home/healthcare facility events)	302 (48.2)	92 (30.5)	87 (28.8)	46 (15.2)	38 (12.6)
Initial Arrest Rhythm					
Shockable	225 (32.9)	144 (64.0)	146 (64.9)	126 (56.0)	112 (49.8)
Non-shockable	458 (67.1)	115 (25.1)	110 (24.0)	30 (6.6)	21 (4.6)
AED Use					
Bystander AED use*	46 (7.2)	35 (76.1)	37 (80.4)	30 (65.2)	26 (56.5)
Bystander AED use* (excludes nursing home/healthcare facility events)	42 (6.7)	33 (78.6)	34 (81.0)	30 (71.4)	26 (61.9)
Trained provider (First Responder) AED use	163 (23.9)	64 (39.3)	63 (38.7)	42 (25.8)	38 (23.3)
Utstein					
Witnessed and shockable	181 (26.5)	125 (69.1)	125 (69.1)	112 (61.9)	104 (57.5)
Bystander witnessed and shockable	169 (24.7)	118 (69.8)	119 (70.4)	106 (62.7)	98 (58.0)
Hypothermia					
Field hypothermia	60 (10.3)	44 (73.3)	34 (56.7)	20 (33.3)	19 (31.7)
In-hospital hypothermia (among admitted patients)	95 (37.1)	--	--	66 (69.5)	55 (57.9)

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=7).

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

†CPC missing for 4 patients.

CARES Survival Report

All Agencies/National Data

Service Date: From 10/01/2005 Through 12/31/2015 | Presumed Cardiac Etiology

	Age = >18 years N = 187488				
	Total N (%)	Sustained ROSC (%)	Survival to hospital admission (%)	Survival to hospital discharge (%)	Survival to discharge with CPC 1 or 2 [†] (%)
Total	187488	57481 (30.7)	50851 (27.1)	19445 (10.4)	15166 (8.1)
Location of Arrest					
Home/Residence	128191 (68.6)	37047 (28.9)	32285 (25.2)	10650 (8.3)	8018 (6.3)
Nursing Home	22311 (11.9)	5584 (25.0)	3913 (17.5)	896 (4.0)	429 (1.9)
Public Setting	36482 (19.5)	14570 (39.9)	14414 (39.5)	7767 (21.3)	6657 (18.2)
Arrest Witnessed Status					
Unwitnessed	95680 (51.0)	19730 (20.6)	16724 (17.5)	4054 (4.2)	2782 (2.9)
Bystander witnessed	71714 (38.3)	29225 (40.8)	26214 (36.6)	11498 (16.0)	9228 (12.9)
911 Responder witnessed	20084 (10.7)	8521 (42.4)	7908 (39.4)	3890 (19.4)	3153 (15.7)
Bystander CPR*					
Bystander CPR	72899 (43.6)	24106 (33.1)	20778 (28.5)	8833 (12.1)	7095 (9.7)
No Bystander CPR	94439 (56.4)	24840 (26.3)	22146 (23.5)	6714 (7.1)	4912 (5.2)
Bystander CPR (excludes nursing home/healthcare facility events)	50669 (36.4)	17652 (34.8)	15879 (31.3)	7280 (14.4)	6069 (12.0)
No Bystander CPR (excludes nursing home/healthcare facility events)	88629 (63.6)	23393 (26.4)	21108 (23.8)	6470 (7.3)	4765 (5.4)
Initial Arrest Rhythm					
Shockable	43464 (23.2)	21175 (48.7)	20973 (48.3)	12738 (29.3)	10903 (25.1)
Non-shockable	144005 (76.8)	36302 (25.2)	29872 (20.7)	6705 (4.7)	4261 (3.0)
AED Use					
Bystander AED use*	8721 (5.2)	3581 (41.1)	3194 (36.6)	1830 (21.0)	1573 (18.0)
Bystander AED use* (excludes nursing home/healthcare facility events)	3379 (2.4)	1684 (49.8)	1630 (48.2)	1183 (35.0)	1073 (31.8)
Trained provider (First Responder) AED use	42490 (22.7)	12670 (29.8)	10858 (25.6)	4222 (9.9)	3421 (8.1)
Utstein					
Witnessed and shockable	30578 (16.3)	16415 (53.7)	16306 (53.3)	10569 (34.6)	9195 (30.1)
Bystander witnessed and shockable	25631 (13.7)	13528 (52.8)	13439 (52.4)	8411 (32.8)	7235 (28.2)
Hypothermia					
Field hypothermia	21284 (13.0)	14638 (68.8)	11695 (54.9)	4335 (20.4)	3207 (15.1)
In-hospital hypothermia (among admitted patients)	22002 (43.3)	--	--	8335 (37.9)	6421 (29.2)

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=809).

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

[†]CPC missing for 1061 patients.